

DEPLOY DELL CLIENT TOOLS WITH MICROSOFT INTUNE

Step by Step installing Dell Client Management Tools

Summary

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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	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- Add Download Information for Dell Display Manager 2.x and Support Matrix
1.2.0	<ul style="list-style-type: none">- 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

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

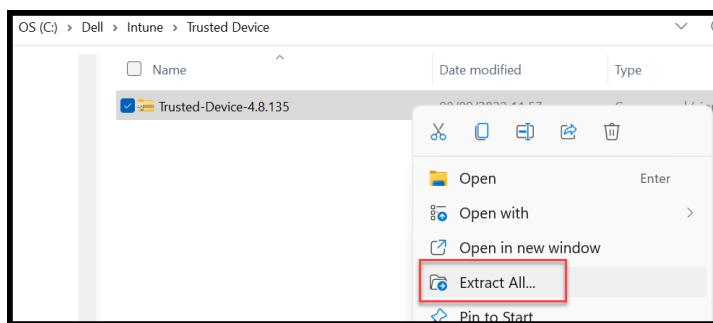
<https://www.dell.com/support/home/en-us/product-support/product/trusted-device/docs>

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>

The file must be unzipped:



The folder Win64R holds a file named TrustedDevice-64bit.msi. This file is needed for deploying the software package through FOR INTUNE.



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.

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

```
##### Variables
$InstallerName = Get-ChildItem .\*.msi | Select-Object -ExpandProperty Name
$ProgramPath = (Get-Item .\$InstallerName).DirectoryName + "\" + $InstallerName
[Version]$ProgramVersion_target = "4.8.135.0" # need to be the same like the msi file
[Version]$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Trusted%Device%'" | Select-Object -
ExpandProperty Version
$ApplicationID_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Trusted%Device%'" | Select-Object -ExpandProperty
IdentifyingNumber
$ArgumentString = '/i "'+$ProgramPath + '" /qn REBOOT=R'

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

If ($ProgramVersion_current -ne $null)
{
    if ($ProgramVersion_target -gt $ProgramVersion_current)
    {
        #####
        #Update Software by msi upgrade          #
        #####
        Start-Process -FilePath msiexec.exe -ArgumentList "$ArgumentString" -Wait
    }
    Else
    {
        Write-Host "same version is installed"
        Exit 0
    }
}
Else
{
    #####
    #Install new Software                      #
    #####
    Start-Process -FilePath msiexec.exe -ArgumentList "$ArgumentString" -Wait
}
```

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

```
##### Variables
$ApplicationID_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%Trusted%Device%'" | Select-Object -
ExpandProperty IdentifyingNumber

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

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

Detection Script

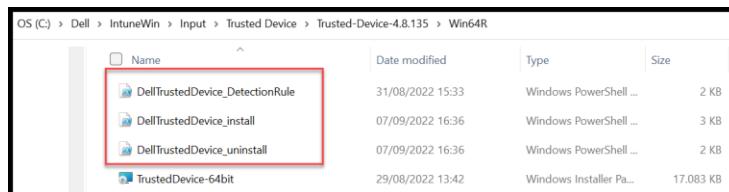
The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

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

```
#####
# Program with target Version
#####
$ProgramVersion_target = '4.8.135.0' # 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 -eq $ProgramVersion_target)
{
    Write-Host "Found it!"
}
```

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

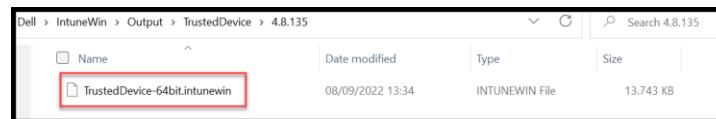


Start the Microsoft Win32 Content Prep Tool (aka IntuneAppUtil.exe). In case you are not familiar with this tool, you will find documentation here: <https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-prepare>

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

```
Please specify the source folder: C:\Dell\IntuneWin\Input\Trusted Device\Trusted-Device-4.8.135\Win64R
Please specify the setup file: TrustedDevice-64bit.msi
Please specify the output folder: C:\Dell\IntuneWin\Output\TrustedDevice\4.8.135
Do you want to specify catalog folder (Y/N)?n
```

IntuneWin is now prepared and ready for installation by Intune.



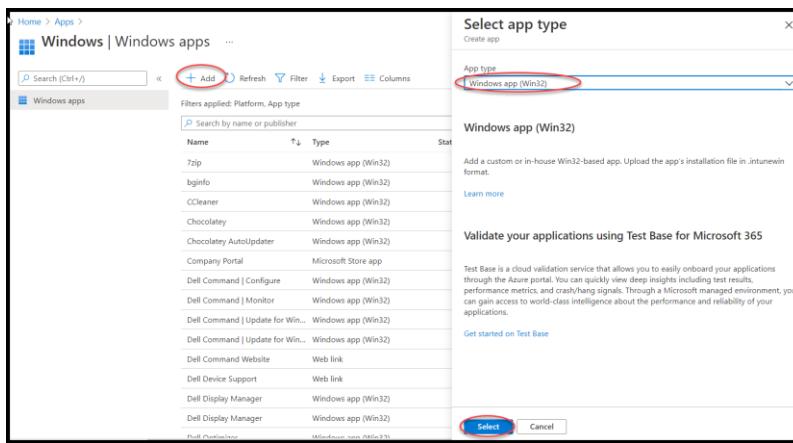
Import and Deployment settings Dell Trusted Device Agent for Intune

Click 'Add'

Field	Value
Source Folder	Windows app (Win32)

Click 'Select'

Select Windows app (Win32) as application.



Section 'App information'

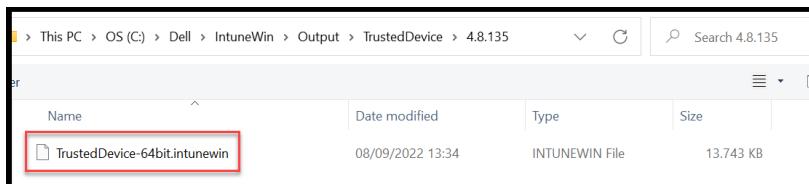


Click 'Select app package file'

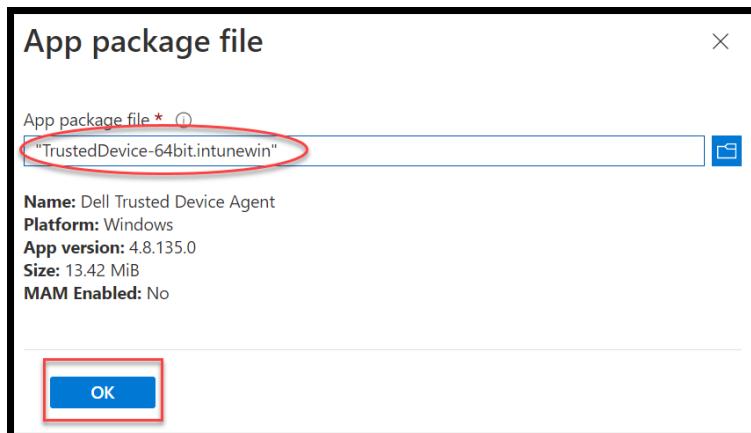
Click 'Folder'



Select 'TrustedDevice-64bit.intunewin'



Click 'OK'



Field	Value
Publisher	Dell Inc.
Show this as a featured app in the Company Portal	No (default security app by device)

Click 'Next'

The screenshot shows the "Add App" configuration page. Under the "App information" tab, the "Select file" field contains "TrustedDevice-64bit.intunewin". The "Name" field is set to "Dell Trusted Device Agent" and the "Description" field also contains "Dell Trusted Device Agent". The "Publisher" field is set to "Dell Inc." (with a red box around it). The "App Version" field is set to "4.8.135.0". The "Category" dropdown is set to "0 selected". The "Show this as a featured app in the Company Portal" dropdown is set to "No" (with a red box around it). The "Information URL" field is empty. At the bottom of the page, there are "Previous" and "Next" buttons, with the "Next" button being highlighted with a red box.

Section 'Program'

The screenshot shows the 'Program' tab selected in the navigation bar of an application management interface. The tab is highlighted with a red circle. Other tabs visible include 'App information', 'Requirements', 'Detection rules', 'Dependencies', 'Supersedence (preview)', 'Assignments', and 'Review + create'. The main content area displays configuration options for an application.

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

Click 'Next'

The screenshot shows the 'Program' configuration page for adding an application. The 'Program' tab is selected. The 'Install command' field contains the PowerShell command to run the installation script. The 'Uninstall command' field contains the PowerShell command to run the uninstallation script. Both fields are highlighted with red boxes. Below these fields are sections for 'Install behavior' (System or User), 'Device restart behavior' (App install may force a device restart), and 'Return codes' (a table mapping return codes to success levels). The 'Next' button is highlighted with a red box.

Section 'Requirements'

The screenshot shows the 'Add App' interface with the 'Requirements' tab selected. The URL in the address bar is 'Home > Apps > Windows > Add App'. Below it, it says 'Windows app (Win32)'. The tabs at the top are: App information (green checkmark), Program (green checkmark), Requirements (blue circle with a red border, indicating it's selected), Detection rules, Dependencies, Superseding (preview), Assignments, and Review + create.

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'

The screenshot shows the 'Add App' interface on the 'Requirements' step. The URL is 'Home > Apps | Windows > Windows | Windows apps > Add App'. The tabs at the top are: App information (green checkmark), Program (green checkmark), Requirements (blue circle with a red border, indicating it's selected), Detection rules, and Dependencies. The page title is 'Add App' with a '...' button. It says 'Windows app (Win32)'. The main content area is titled 'Specify the requirements that devices must meet before the app is installed:' and contains the following fields:
Operating system architecture * (1): 64-bit (highlighted with a red box)
Minimum operating system * (1): Windows 10 2004 (highlighted with a blue box)
Disk space required (MB): (empty)
Physical memory required (MB): (empty)
Minimum number of logical processors required (1): (empty)
Minimum CPU speed required (MHz): (empty)
At the bottom are 'Previous' and 'Next' buttons, with 'Next' being highlighted in blue.

Section 'Detection rules'

The screenshot shows the 'Add App' interface with the 'Detection rules' tab highlighted. Other tabs like 'App information', 'Program', 'Requirements', 'Dependencies', 'Supersedeance (preview)', 'Assignments', and 'Review + create' are also visible.

Field	Value
Rules format	Use a custom detection

Click 'Folder'

The screenshot shows the 'Add App' interface under the 'Detection rules' tab. The 'Rules format' dropdown is set to 'Use a custom detection script'. Below it, the 'Script file' input field is highlighted with a red box. Other settings like 'Run script as 32-bit process on 64-bit clients' and 'Enforce script signature check and run script silently' are also shown.

Select 'DellTrustedDevice_DetectionRule.ps1'

The screenshot shows a file explorer window with the path 'OS (C) > Dell > IntuneWin > Input > Trusted Device > Trusted-Device-4.8.135 > Win64R'. A file named 'DellTrustedDevice_DetectionRule.ps1' is selected and highlighted with a red box. Other files listed include 'DellTrustedDevice_install', 'DellTrustedDevice_uninstall', and 'TrustedDevice-64bit'.

Click 'Next'

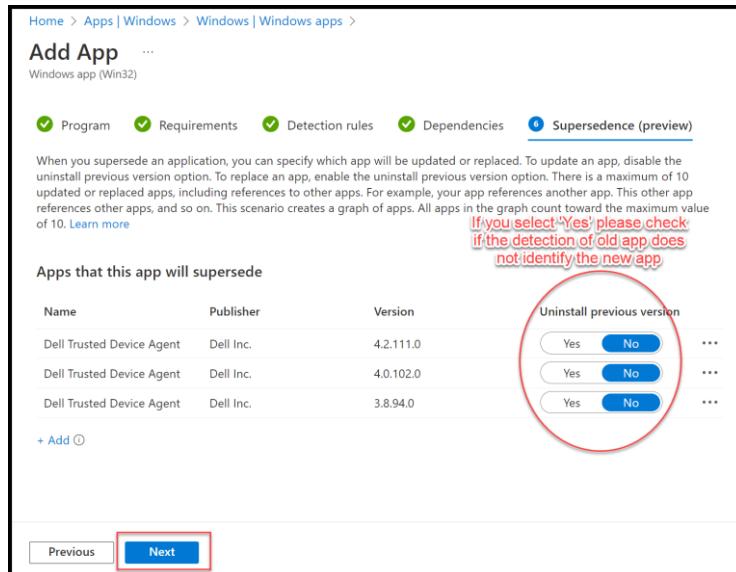
The screenshot shows the 'Add App' interface under the 'Detection rules' tab. The 'Script file' input field contains the path 'DellTrustedDevice_DetectionRule.ps1', which is also highlighted with a red box. The 'Previous' and 'Next' buttons are at the bottom.

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.

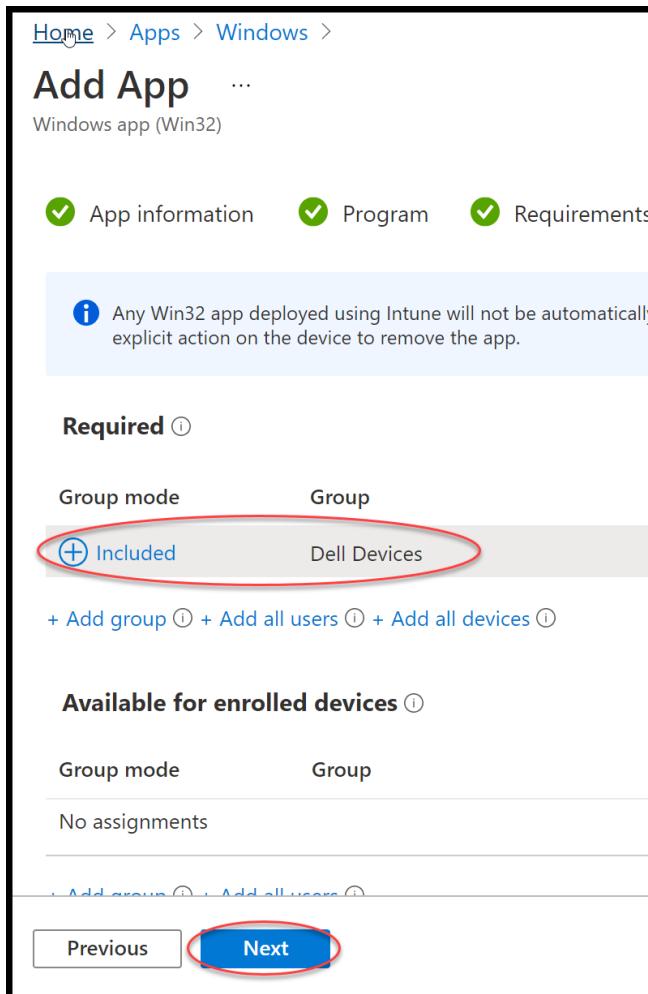
Section 'Assignments'



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'

This screenshot shows the 'Add App' interface in a web browser. The top navigation bar includes 'Home > Apps | Windows > Windows | Windows apps >'. Below it, the title 'Add App' and a subtitle 'Windows app (Win32)' are displayed. A horizontal navigation bar at the top right includes 'Dependencies' (green checkmark), 'Supersession (preview)' (green checkmark), 'Assignments' (green checkmark), and 'Review + create' (blue button). The main area is titled 'Summary' and contains 'App information' fields. These fields include:

- App package file: TrustedDevice-64bit.intunewin
- Name: Dell Trusted Device Agent
- Description: Dell Trusted Device Agent
- Publisher: Dell Inc.
- App Version: 4.8.135.0
- Category: --
- Show this as a featured app in the Company Portal: No
- Information URL: --
- Privacy URL: --

At the bottom of the form are two buttons: 'Previous' and 'Create' (highlighted with a red box).

Ready to work.

This screenshot shows a list of installed applications in the 'Windows apps' section. The top navigation bar includes 'Windows apps >'. Below it, there are filter options: '+ Add', 'Refresh', 'Filter', 'Export', and 'Columns'. A search bar contains the text 'trust'. The table lists the following applications:

Name	Type	Status	Version	Assigned
Dell Trusted Device Agent	Windows app (Win32)	4.2.111.0	No	
Dell Trusted Device Agent	Windows app (Win32)	4.0.102.0	No	
Dell Trusted Device Agent	Windows app (Win32)	3.8.94.0	No	
Dell Trusted Device Agent	Windows app (Win32)	3.6.85.0	No	
Dell Trusted Device Agent	Windows app (Win32)	4.7.132.0	Yes	
Dell Trusted Device Agent	Windows app (Win32)	4.8.135.0	Yes	
Dell Trusted Device Agent	Windows app (Win32)	3.7.89.0	No	

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

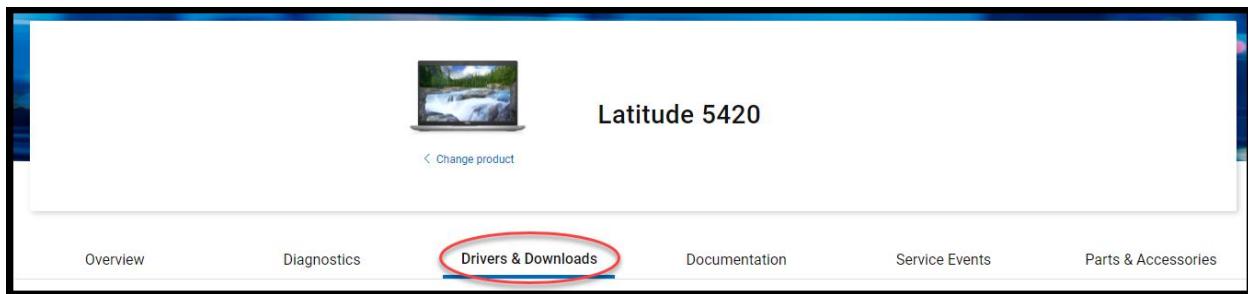
<https://www.dell.com/support/home/en-us/product-support/product/dell-command-power-manager/docs>

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.

The screenshot shows a search interface for finding drivers. The 'Keyword' field contains 'power manager'. The 'Operating system' dropdown is set to 'Windows 10, 64-bit'. The search results table has one entry: 'Dell Power Manager Service' (RECOMMENDED, Systems Management, 16 Aug 2022). The file size is listed as 17.824 KB.

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.

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

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

If ($ProgramVersion_current -ne $null)
{
    if ($ProgramVersion_target -gt $ProgramVersion_current)
    {
        Start-Process -FilePath msieexec.exe -ArgumentList "/x $ApplicationID_current /qn" -Wait
    }
    Else
    {
        Write-Host "same version existing"
        Exit Code 0
    }
}

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

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

Uninstall Script

The script starts the uninstalling of application.

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

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

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

Detection Script

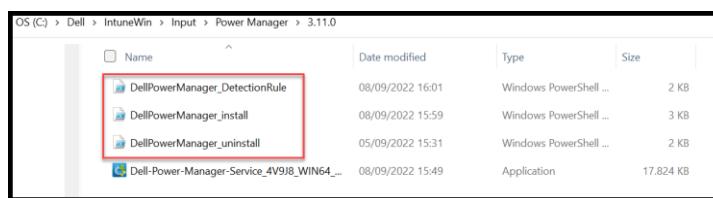
The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

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

```
Please specify the source folder: C:\Dell\IntuneWin\Input\Power Manager\3.11.0
Please specify the setup file: Dell-Power-Manager-Service_4V9J8_WIN64_3.11.0_A00.exe
Please specify the output folder: C:\Dell\IntuneWin\Output\Power Manager\3.11.0
Do you want to specify catalog folder (Y/N)?n
```

IntuneWin is now prepared and ready for installation by Intune.



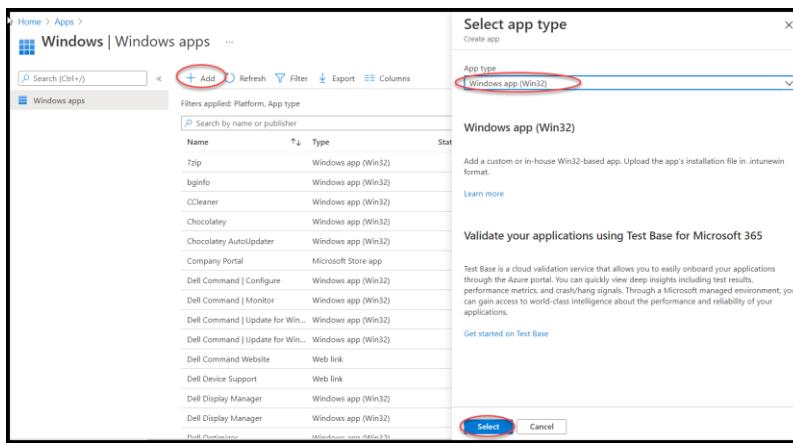
Import and Deployment settings Dell Power Manager for Intune

Click 'Add'

Field	Value
Source Folder	Windows app (Win32)

Click 'Select'

Select Windows app (Win32) as application.



Section 'App information'

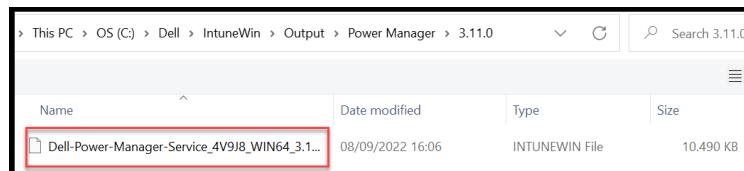


Click 'Select app package file'

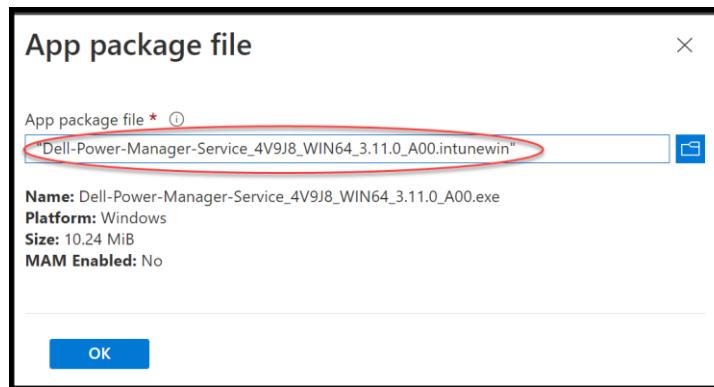
Click 'Folder'



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'

Home > Apps | Windows > Windows | Windows apps >

Add App ...

Windows app (Win32)

① App information ② Program ③ Requirements ④ Detection rules ⑤ Dependencies ⑥ Supersedence (preview)

Select file * ⓘ Dell-Power-Manager-Service_4V9J8_WIN64_3.11.0_A00.intunewin

Name * ⓘ Dell Power Manager

Description * ⓘ Dell-Power-Manager-Service_4V9J8_WIN64_3.11.0_A00.exe

Edit Description

Publisher * ⓘ Dell Inc.

App Version ⓘ 3.11.0

Category ⓘ 0 selected

Show this as a featured app in the Company Portal ⓘ Yes

Information URL ⓘ Enter a valid url

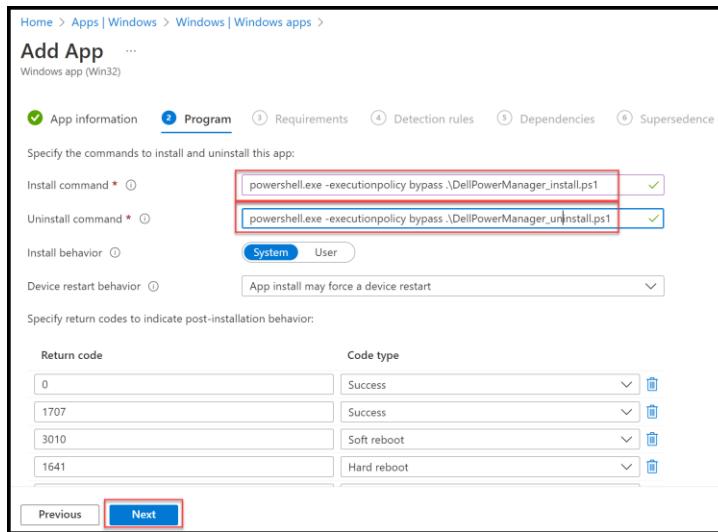
Previous Next

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'

The screenshot shows the 'Add App' interface with the 'Requirements' tab selected. The URL in the address bar is 'Home > Apps > Windows > Add App'. Below it, it says 'Windows app (Win32)'. The tabs at the top are: App information (green checkmark), Program (green checkmark), Requirements (blue circle with a dot, highlighted with a red oval), Detection rules (grey), Dependencies (grey), Supersedence (preview) (grey), Assignments (grey), and Review + create (grey). The 'Requirements' tab is active.

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'

The screenshot shows the 'Add App' interface on the 'Requirements' step. The URL is 'Home > Apps | Windows > Windows | Windows apps > Add App'. The tab 'Requirements' is selected. The page title is 'Add App' with three dots. Below it, it says 'Windows app (Win32)'. The tabs at the top are: App information (green checkmark), Program (green checkmark), Requirements (blue circle with a dot, highlighted with a red oval), Detection rules (grey), Dependencies (grey). The sub-section title is 'Specify the requirements that devices must meet before the app is installed:'. The fields filled are: 'Operating system architecture *' (64-bit) and 'Minimum operating system *' (Windows 10 2004). Other fields are empty: 'Disk space required (MB)', 'Physical memory required (MB)', 'Minimum number of logical processors required', and 'Minimum CPU speed required (MHz)'. At the bottom are 'Previous' and 'Next' buttons, with 'Next' being highlighted in blue.

Section 'Detection rules'

The screenshot shows the 'Add App' interface with the 'Detection rules' tab highlighted. Other tabs like 'App information', 'Program', 'Requirements', 'Dependencies', 'Supersedeance (preview)', 'Assignments', and 'Review + create' are visible but not selected.

Field	Value
Rules format	Use a custom detection

Click 'Folder'

The screenshot shows the 'Add App' interface under the 'Detection rules' tab. The 'Rules format' dropdown is set to 'Use a custom detection script'. Below it, the 'Script file' input field is highlighted with a red box. A 'Select a file' button is shown next to it. Other options like 'Run script as 32-bit process on 64-bit clients' and 'Enforce script signature check and run script silently' are also visible.

Select 'DellPowerManager_DetectionRule.ps1'

The screenshot shows a file explorer window with a search bar for 'Search 3.11.0'. It lists several PowerShell scripts in a folder path: This PC > OS (C:) > Dell > IntuneWin > Input > Power Manager > 3.11.0. The file 'DellPowerManager_DetectionRule.ps1' is highlighted with a red box.

Click 'Next'

The screenshot shows the 'Add App' interface under the 'Detection rules' tab. The 'Script file' field now contains the path 'DellPowerManager_DetectionRule.ps1'. The 'Next' button at the bottom is highlighted with a red box.

Section 'Dependencies'



No changes

Section 'Supersedence'

A screenshot of the 'Add App' interface, similar to the previous one but with a different tab selected. The top navigation bar shows 'Home > Apps | Windows > Windows | Windows apps > Add App ...'. The 'Supersedence (preview)' tab is highlighted with a blue circle. Below the tabs, there is a note: 'When you supersede an application, you can specify which app will be updated or replaced. To update an app, disable the uninstall previous version option. To replace an app, enable the uninstall previous version option. There is a maximum of 10 updated or replaced apps, including references to other apps. For example, your app references another app. This other app references other apps, and so on. This scenario creates a graph of apps. All apps in the graph count toward the maximum value of 10.' It also links to 'Learn more'. A callout box with red text points to the 'Uninstall previous version' buttons: 'If you select "Yes" please check if the detection of old app does not identify the new app.' The main table lists 'Apps that this app will supersede' with two entries: 'Dell Power Manager Service' by Dell Inc. (Version 3.9.0) and 'Dell Power Manager Service' by Dell Inc. (Version 3.10.0). Each entry has a 'Uninstall previous version' section with 'Yes' and 'No' buttons, both of which are circled in red. At the bottom are 'Previous' and 'Next' buttons, with 'Next' being highlighted.

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.

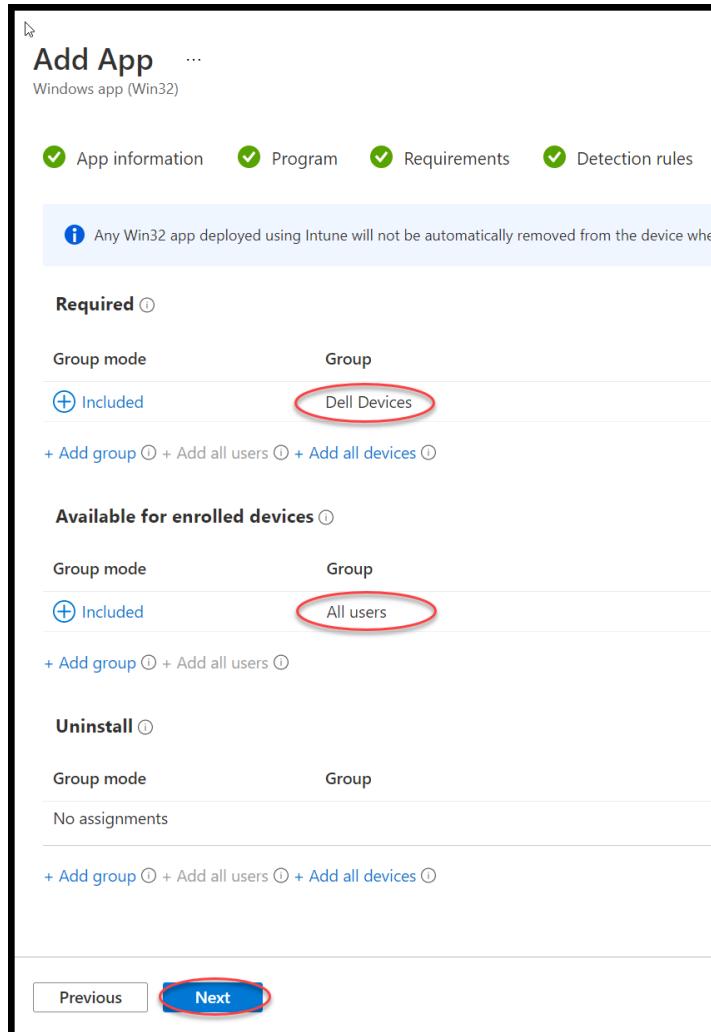
Section 'Assignments'



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.

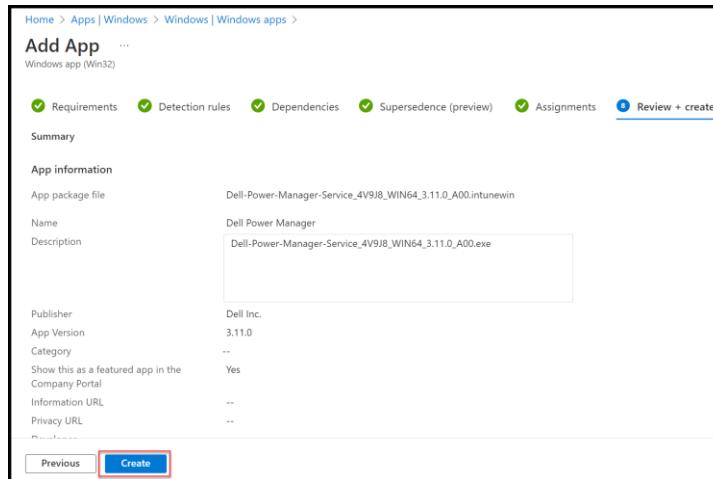
Option	Value
Required	Add group 'Dell Devices'
Available for enrolled devices	Add group 'All User'
Uninstall	

Click 'Next'



The app is now finished

Click 'Create'



Ready to work.

Windows apps					
Filters applied: Platform, App type					
Name	Type	Status	Version	Assigned	
Dell Power Manager	Windows app (Win32)	3.11.0	Yes		
Dell Power Manager Serv...	Windows app (Win32)	3.9.0	No		
Dell Power Manager Serv...	Windows app (Win32)	3.10.0	No		

Dell Command | Update

Introduction

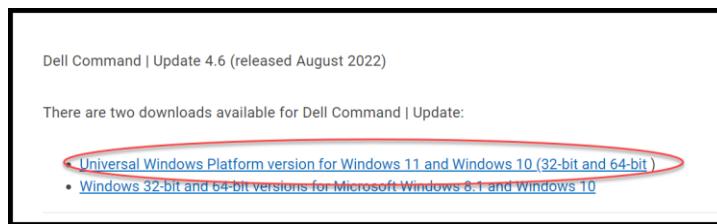
Dell Command | Update is a stand-alone application, for commercial client computers that provides updates for system software released by Dell. This application simplifies the BIOS, firmware, driver, and application update experience for Dell commercial client hardware. This application can also be used 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

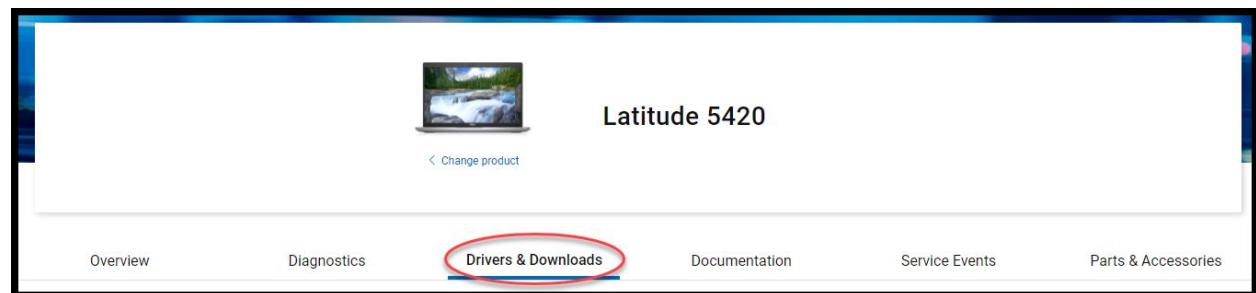
Please be aware that Dell offers two Versions of installer Dell Command | Update Application for Windows 10 (or Windows Universal Application) and Dell Command | Update. For this guide we are using the Universal Windows Application.



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

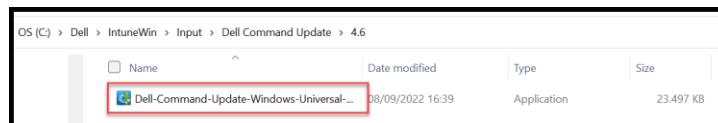
Field	Value
Keyword	Update

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

The screenshot shows a search interface for drivers. The 'Keyword' field contains 'Update'. The 'Operating system' dropdown is set to 'Windows 10, 64-bit'. The search results table has columns for NAME, IMPORTANCE, CATEGORY, RELEASE DATE, and ACTION. Two items are listed: 'Dell Command | Update Application' and 'Dell Command | Update Windows Universal Application'. The second item is highlighted with a red box.

NAME	IMPORTANCE	CATEGORY	RELEASE DATE	ACTION
Dell Command Update Application	URGENT	Systems Management	25 Aug 2022	<button>Download</button>
Dell Command Update Windows Universal Application	URGENT	Systems Management	25 Aug 2022	<button>Download</button>

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.

```
##### Variables
$InstallerName = Get-ChildItem .\*.exe | Select-Object -ExpandProperty Name
$ProgramPath = ".\" + $InstallerName
[Version]$ProgramVersion_target = (Get-Command $ProgramPath).FileVersionInfo.ProductVersion
[Version]$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell Command%Update%'" | Select-Object -ExpandProperty Version
$ApplicationID_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%Update%'" | Select-Object -ExpandProperty IdentifyingNumber

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

If ($ProgramVersion_current -ne $null)
{
    if ($ProgramVersion_target -gt $ProgramVersion_current)
    {
        Start-Process -FilePath msiexec.exe -ArgumentList '/x $ApplicationID_current /qn' -Wait
    }
    Else
    {
        Write-Host "Same version is installed"
        Exit Code 0
    }
}

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

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

Uninstall Script

The script starts the uninstalling of application.

```
##### Variables
$ApplicationID_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell Command%Update%'" | Select-Object -ExpandProperty IdentifyingNumber

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

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

Detection Script

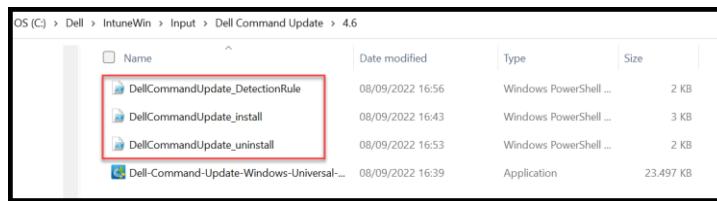
The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

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.

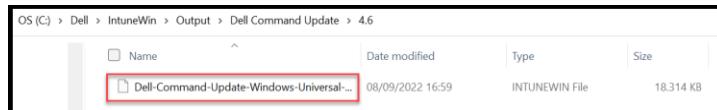


Start the Microsoft Win32 Content Prep Tool (aka IntuneAppUtil.exe). In case you are not familiar with this tool, you will find documentation here: <https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-prepare>

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.



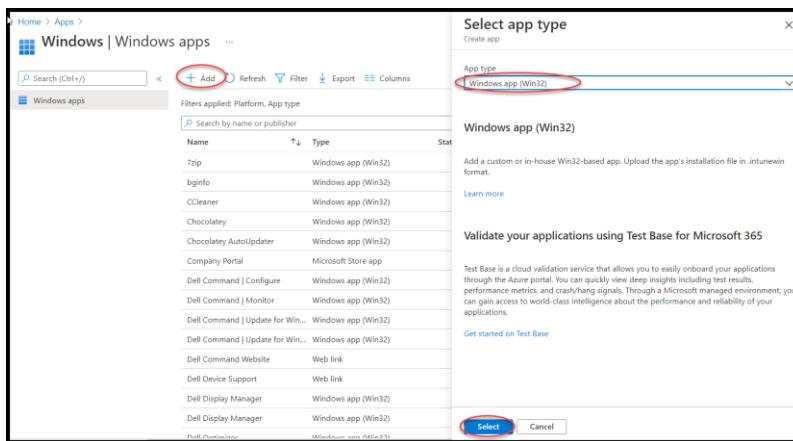
Import and Deployment settings Dell Command | Update for Intune

Click 'Add'

Field	Value
Source Folder	Windows app (Win32)

Click 'Select'

Select Windows app (Win32) as application.

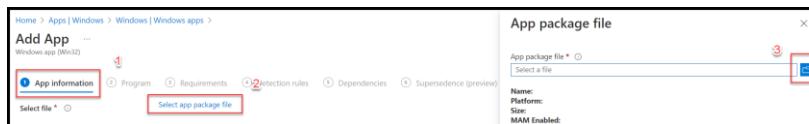


Section 'App information'

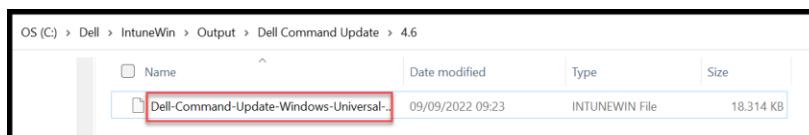


Click 'Select app package file'

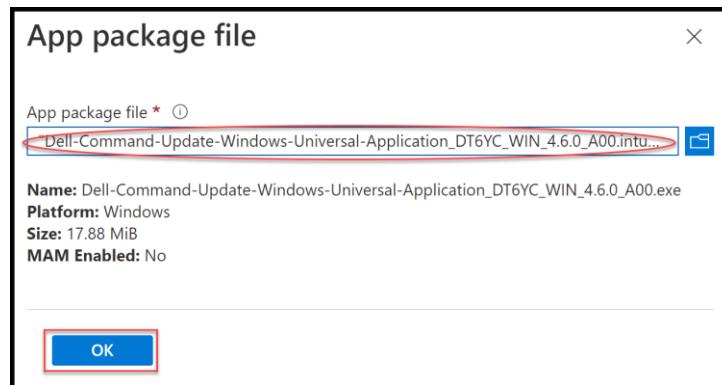
Click 'Folder'



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'

Select file * Dell-Command-Update-Windows-Universal-Application_DT6YC_WIN_4.6.0_A00.intunewin

Name * Dell Command | Update

Description * Dell-Command-Update-Windows-Universal-Application_DT6YC_WIN_4.6.0_A00.exe

Publisher * Dell Inc.

App Version * 4.6.0

Category 0 selected

Show this as a featured app in the Company Portal Yes

Information URL Enter a valid url

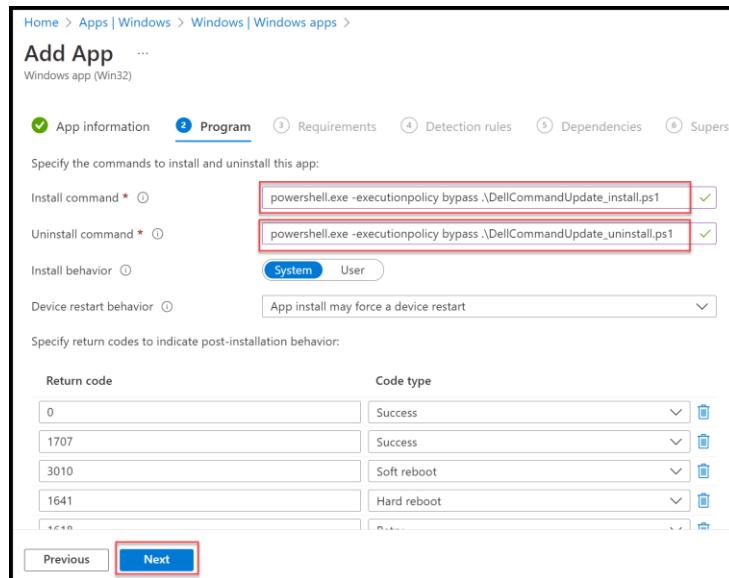
Previous Next

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'

The screenshot shows the 'Add App' interface with the 'Requirements' tab selected. The URL in the address bar is 'Home > Apps > Windows > Add App'. Below it, it says 'Windows app (Win32)'. The tabs at the top are: App information (green checkmark), Program (green checkmark), Requirements (blue circle with a red border, indicating it's selected), Detection rules, Dependencies, Superseding (preview), Assignments, and Review + create.

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'

The screenshot shows the 'Add App' interface on the 'Requirements' step. The URL is 'Home > Apps | Windows > Windows | Windows apps > Add App'. The tabs at the top are: App information (green checkmark), Program (green checkmark), Requirements (blue circle with a red border, indicating it's selected), Detection rules, and Dependencies. The page title is 'Add App' and the subtitle is 'Windows app (Win32)'. It asks to specify requirements for device installation. The 'Operating system architecture' field is set to '64-bit' and the 'Minimum operating system' field is set to 'Windows 10 2004'. Other fields like 'Disk space required (MB)', 'Physical memory required (MB)', 'Minimum number of logical processors required', and 'Minimum CPU speed required (MHz)' are empty. At the bottom are 'Previous' and 'Next' buttons, with 'Next' being highlighted.

Section 'Detection rules'

The screenshot shows the 'Add App' interface with the 'Detection rules' tab highlighted. Other tabs like 'App information', 'Program', 'Requirements', 'Dependencies', 'Supersedeance (preview)', 'Assignments', and 'Review + create' are visible but not selected.

Field	Value
Rules format	Use a custom detection

Click 'Folder'

The screenshot shows the 'Add App' interface under the 'Detection rules' tab. The 'Rules format' dropdown is set to 'Use a custom detection script'. Below it, there's a 'Select a file' button. The 'Script file' field is highlighted with a red box, and the 'Select a file' button next to it is also highlighted with a red box.

Select 'DellCommandUpdate_DetectionRule.ps1'

The screenshot shows a file explorer window with the path 'OS (C) > Dell > IntuneWin > Input > Dell Command Update > 4.6'. Inside this folder, three files are listed: 'DellCommandUpdate_DetectionRule.ps1', 'DellCommandUpdate_install.ps1', and 'DellCommandUpdate_uninstall.ps1'. The first file, 'DellCommandUpdate_DetectionRule.ps1', is highlighted with a red box.

Click 'Next'

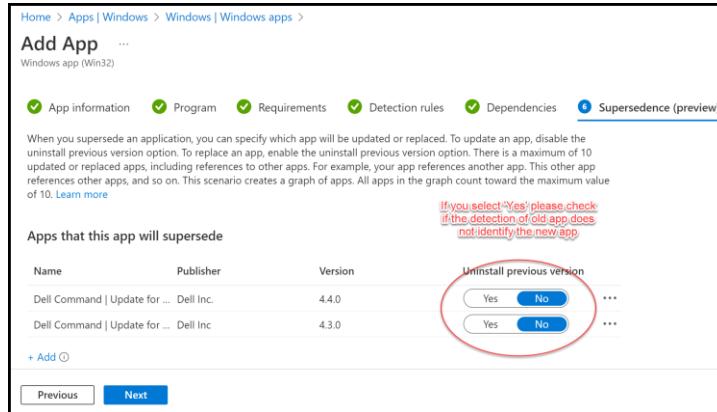
The screenshot shows the 'Add App' interface under the 'Detection rules' tab. The 'Script file' field now contains the path 'DellCommandUpdate_DetectionRule.ps1', which is highlighted with a red box. The 'Next' button at the bottom is also highlighted with a red box.

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.

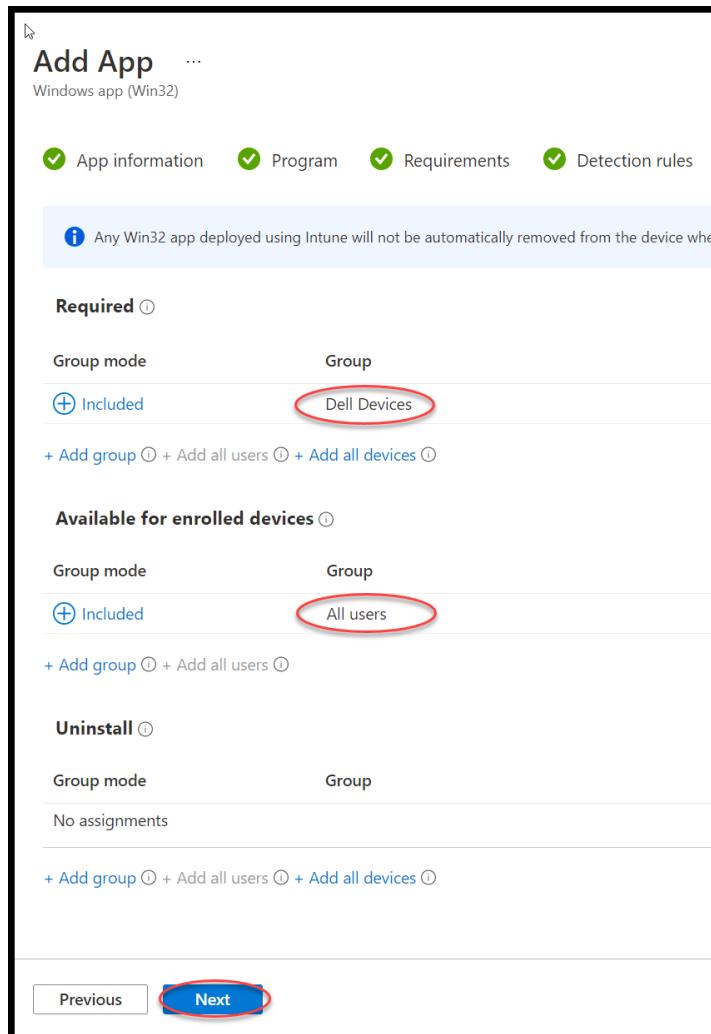
Section 'Assignments'



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'

Home > Apps | Windows > Windows | Windows apps >

Add App ...

Windows app (Win32)

✓ App information ✓ Program ✓ Requirements ✓ Detection rules ✓ Dependencies

Summary

App information

App package file	Dell-Command-Update-Windows-Universal-Application_DT6YC_WIN_4.6.0_A00.intunewin
Name	Dell Command Update
Description	Dell-Command-Update-Windows-Universal-Application_DT6YC_WIN_4.6.0_A00.exe
Publisher	Dell Inc.
App Version	4.6.0
Category	--
Show this as a featured app in the Company Portal	Yes
Information URL	--
Privacy URL	--

Previous **Create**

Ready to work.

Name	Type	Status	Version	Assigned	...
Chocolatey AutoUpdater	Windows app (Win32)	No	...		
Dell Command Update f...	Windows app (Win32)	No	4.3.0	...	
Dell Command Update f...	Windows app (Win32)	No	4.4.0	...	
Dell Command Update ...	Windows app (Win32)	Yes	4.6.0	...	

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

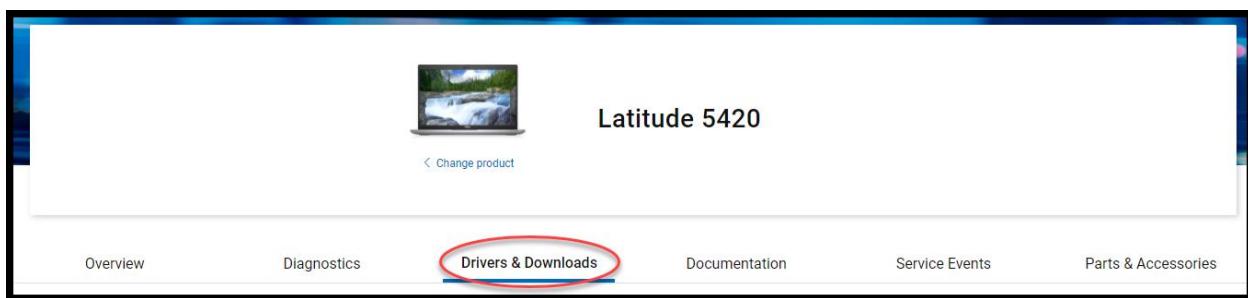
<https://www.dell.com/support/home/en-us/product-support/product/command-monitor/docs>

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.

The screenshot shows a search interface for drivers. In the 'Keyword' field, 'monitor' is typed. The 'Operating system' dropdown is set to 'Windows 10, 64-bit'. Below the search bar, there are filters for 'Download Type' (All) and 'Category' (All). A note at the top states: 'This is a comprehensive list of all available downloads for your Latitude 5420. Some downloads may already exist on your device. To let Dell automatically find available updates for you, select Check for Updates. Select "This Device" to view and manually install available downloads specific to your device's unique identifier. (Show me how.)' Below the filters, there are two tabs: 'Latitude 5420 (6)' and 'This Device'. The main table lists six items, with the last item, 'Dell Command | Monitor', highlighted with a red box. The table columns include Name, Importance, Category, Release Date, and Action (Download).

Name	Importance	Category	Release Date	Action
Dell Latitude 5420 System BIOS	URGENT	BIOS	09 Aug 2022	Download
Intel Thunderbolt Controller Driver	URGENT	Chipset	05 Nov 2021	Download
DBUtil Removal Utility	URGENT	Security	02 Aug 2021	Download
Trusted Device Agent	RECOMMENDED	Trusted Device	31 Aug 2022	Download
Dell Command Monitor	RECOMMENDED	Systems Management	29 Jul 2022	Download

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.

```
##### Variables
$InstallerName = Get-ChildItem .\*.exe | Select-Object -ExpandProperty Name
$ProgramPath = "." + $InstallerName
[Version]$ProgramVersion_target = (Get-Command $ProgramPath).FileVersionInfo.ProductVersion
[Version]$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%Monitor%'" | Select-Object -
ExpandProperty Version
$ApplicationID_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%Monitor%'" | Select-Object -ExpandProperty
IdentifyingNumber

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

If ($ProgramVersion_current -ne $null)
{
    if ($ProgramVersion_target -gt $ProgramVersion_current)
    {
        Start-Process -FilePath msieexec.exe -ArgumentList '/x $ApplicationID_current /qn' -Wait
    }
    Else
    {
        Write-Host "same version is installed"
        Exit Code 0
    }
}

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

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

Uninstall Script

The script starts the uninstalling of application.

```
##### Variables
$ApplicationID_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%Monitor%'" | Select-Object -ExpandProperty
IdentifyingNumber

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

Start-Process -FilePath msieexec.exe -ArgumentList '/x $ApplicationID_current /qn' -Wait
```

Detection Script

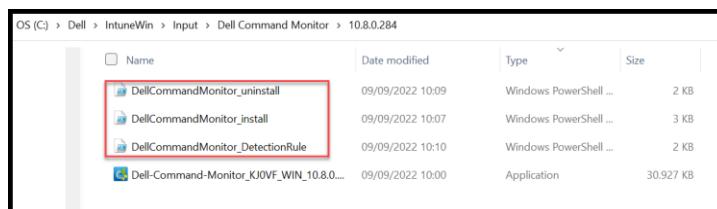
The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

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

```
Please specify the source folder: C:\Dell\IntuneWin\Input\Dell Command Monitor\10.8.0.284
Please specify the setup file: Dell-Command-Monitor_KJ0VF_WIN_10.8.0.284_A00.exe
Please specify the output folder: C:\Dell\IntuneWin\Output\Dell Command Monitor\10.8.0.284
Do you want to specify catalog folder (Y/N)?n
```

IntuneWin is now prepared and ready for installation by Intune.



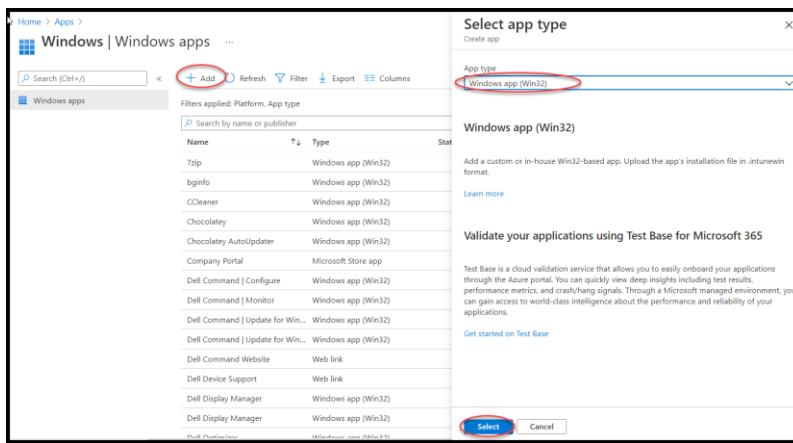
Import and Deployment settings Dell Command | Monitor for Intune

Click 'Add'

Field	Value
Source Folder	Windows app (Win32)

Click 'Select'

Select Windows app (Win32) as application.



Section 'App information'

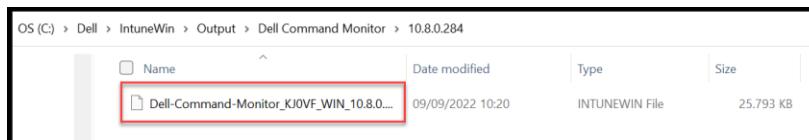


Click 'Select app package file'

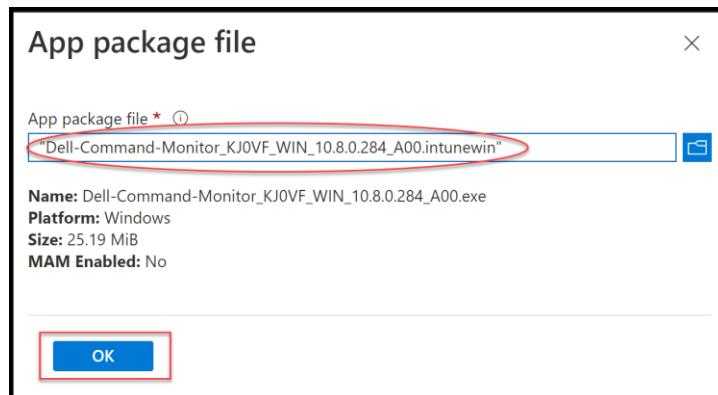
Click 'Folder'



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'

The screenshot shows the 'Program' tab selected in the navigation bar of an application management interface. The tab is highlighted with a red border. Other tabs visible include 'App information', 'Requirements', 'Detection rules', 'Dependencies', 'Supersedence (preview)', 'Assignments', and 'Review + create'. The main content area displays a summary of app details.

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

Click 'Next'

The screenshot shows the 'Program' configuration page for adding an app. The 'Install command' field contains the PowerShell command to bypass execution policy and run the installation script. The 'Uninstall command' field contains the PowerShell command to bypass execution policy and run the uninstallation script. Both fields have red boxes around them, likely indicating they are required or have been modified. The 'Next' button at the bottom is also highlighted with a red border.

Section 'Requirements'

The screenshot shows the 'Add App' interface with the 'Requirements' tab selected. The URL in the address bar is 'Home > Apps > Windows > Add App'. Below it, it says 'Windows app (Win32)'. The tabs at the top are: App information (green checkmark), Program (green checkmark), Requirements (blue circle with a dot, highlighted with a red oval), Detection rules, Dependencies, Superseding (preview), Assignments, and Review + create.

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'

The screenshot shows the 'Add App' interface on the 'Requirements' step. The URL is 'Home > Apps | Windows > Windows | Windows apps > Add App'. The tabs at the top are: App information (green checkmark), Program (green checkmark), Requirements (blue circle with a dot, highlighted with a red oval), Detection rules, Dependencies, and Superseding (preview). The page title is 'Add App' and the subtitle is 'Windows app (Win32)'. It asks to specify requirements for device installation. Filled fields include 'Operating system architecture *' (64-bit) and 'Minimum operating system *' (Windows 10 2004). Other fields like Disk space required, Physical memory required, Minimum number of logical processors required, and Minimum CPU speed required are empty. At the bottom are 'Previous' and 'Next' buttons, with 'Next' being highlighted with a blue rectangle.

Section 'Detection rules'

The screenshot shows the 'Add App' interface with the 'Detection rules' tab highlighted. Other tabs like 'App information', 'Program', 'Requirements', 'Dependencies', 'Supersede (preview)', 'Assignments', and 'Review + create' are visible but not selected.

Field	Value
Rules format	Use a custom detection

Click 'Folder'

The screenshot shows the 'Add App' interface under the 'Detection rules' tab. The 'Rules format' dropdown is set to 'Use a custom detection script'. Below it, the 'Script file' input field is highlighted with a red box. Other settings like 'Run script as 32-bit process on 64-bit clients' and 'Enforce script signature check and run script silently' are also shown.

Select 'DellCommandMonitor_DetectionRule.ps1'

The screenshot shows a file explorer window with the path 'OS (C) > Dell > IntuneWin > Input > Dell Command Monitor > 10.8.0.284'. A file named 'DellCommandMonitor_DetectionRule.ps1' is selected and highlighted with a red box. Other files in the folder include 'DellCommandMonitor_install.ps1' and 'DellCommandMonitor_uninstall.ps1'.

Click 'Next'

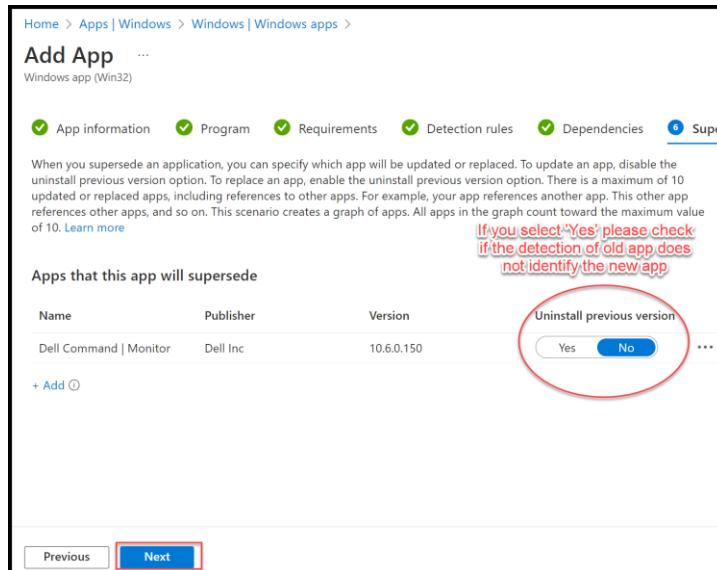
The screenshot shows the 'Add App' interface under the 'Detection rules' tab. The 'Script file' input field contains the path 'DellCommandMonitor_DetectionRule.ps1', which is highlighted with a red oval. The 'Next' button at the bottom is also highlighted with a red box. The 'Previous' button is visible to its left.

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.

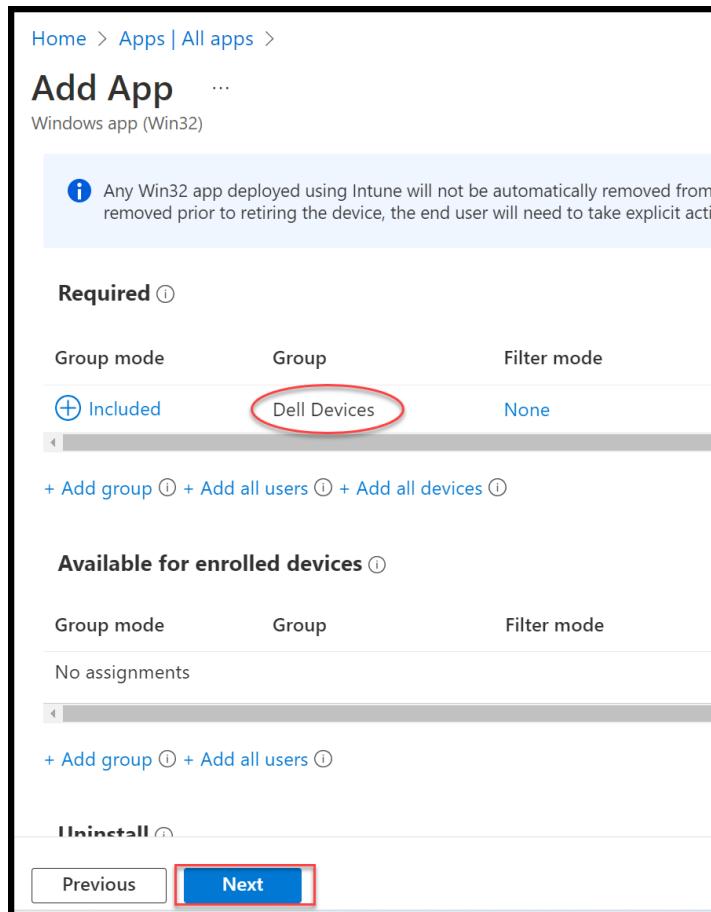
Section 'Assignments'



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'

The screenshot shows the 'Add App' wizard interface. At the top, there are several tabs: Program (checked), Requirements, Detection rules, Dependencies, and Supersedence (preview). Below these tabs is a 'Summary' section. Under 'App information', there are fields for App package file (Dell-Command-Monitor_KJ0VF_WIN_10.8.0.284_A00.intunewin), Name (Dell Command | Monitor), Description (Dell-Command-Monitor_KJ0VF_WIN_10.8.0.284_A00.exe), Publisher (Dell Inc.), App Version (10.8.0.284), Category (--), Show this as a featured app in the Company Portal (No), Information URL (--), and Privacy URL (--). At the bottom of the form, there are 'Previous' and 'Create' buttons, with 'Create' being highlighted with a red box.

Ready to work.

The screenshot shows a list of apps under 'Windows | Windows apps'. A search bar at the top contains 'monitor'. The table has columns: Name, Type, Status, Version, and Assigned. There are two entries: 'Dell Command | Monitor' (Windows app (Win32), Version 10.8.0.284, Assigned Yes) and 'Dell Command | Monitor' (Windows app (Win32), Version 10.6.0.150, Assigned No). The first entry is circled with a red oval.

Name	Type	Status	Version	Assigned
Dell Command Monitor	Windows app (Win32)	10.8.0.284		Yes
Dell Command Monitor	Windows app (Win32)	10.6.0.150		No

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 Desktop 18.04, 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

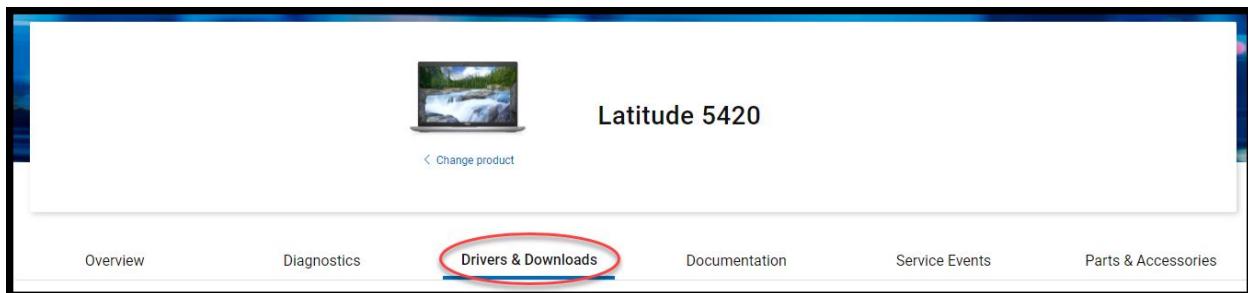
<https://www.dell.com/support/home/en-us/product-support/product/command-configure/docs>

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.

The screenshot shows a search interface for drivers. The 'Keyword' field contains 'configure'. The 'Operating system' dropdown is set to 'Windows 10, 64-bit'. The search results table has columns for Name, Importance, Category, Release Date, and Action. One result, 'Dell Command | Configure', is highlighted with a red box. The table also includes a header row with filters for Name, Importance, Category, Release Date, and Action.

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.

```
##### Variables
$InstallerName = Get-ChildItem .\*.exe | Select-Object -ExpandProperty Name
$ProgramPath = ".\" + $InstallerName
[Version]$ProgramVersion_target = (Get-Command $ProgramPath).FileVersionInfo.ProductVersion
[Version]$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%Configure%'" | Select-Object -
ExpandProperty Version
$ApplicationID_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%Configure%'" | Select-Object -ExpandProperty
IdentifyingNumber

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

If ($ProgramVersion_current -ne $null)
{
    if ($ProgramVersion_target -gt $ProgramVersion_current)
    {
        Start-Process -FilePath msieexec.exe -ArgumentList '/x $ApplicationID_current /qn' -Wait
    }
    Else
    {
        Write-Host "same version is installed"
        Exit 0
    }
}

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

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

Uninstall Script

The script starts the uninstalling of application.

```
##### Variables
$ApplicationID_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%Configure%'" | Select-Object -ExpandProperty
IdentifyingNumber

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

Start-Process -FilePath msieexec.exe -ArgumentList '/x $ApplicationID_current /qn' -Wait
```

Detection Script

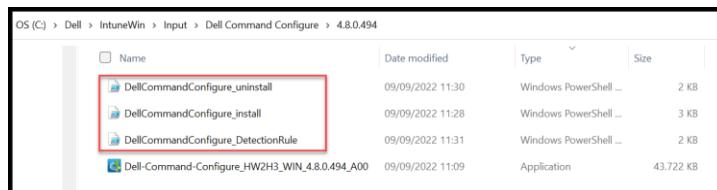
The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

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

```
Please specify the source folder: C:\Dell\IntuneWin\Input\Dell Command Configure\4.8.0.494
Please specify the setup file: Dell-Command-Configure_HW2H3_WIN_4.8.0.494_A00.exe
Please specify the output folder: C:\Dell\IntuneWin\Output\Dell Command Configure\4.8.0.494
Do you want to specify catalog folder (Y/N)?n
```

IntuneWin is now prepared and ready for installation by Intune.



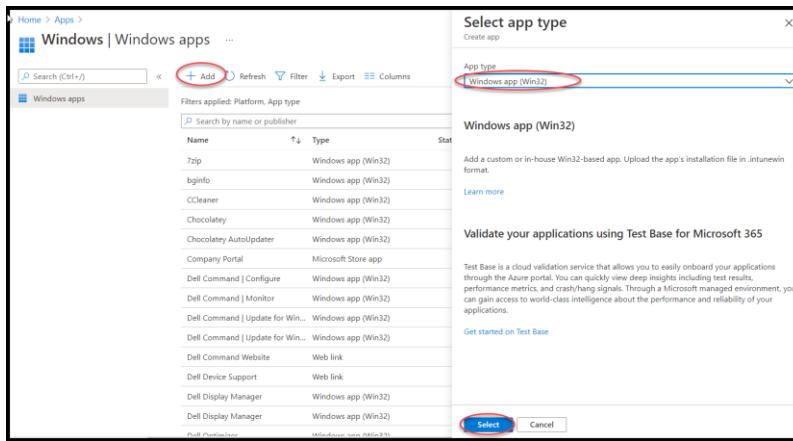
Import and Deployment settings Dell Command | Configure for Intune

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'

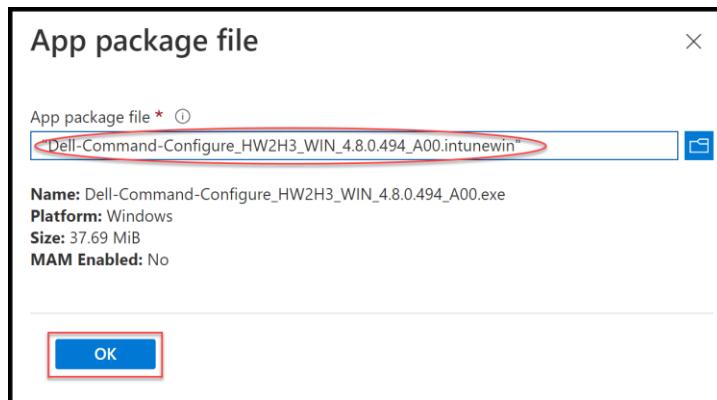
Click 'Folder'



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'

Home > Apps | All apps >

Add App ...

Windows app (Win32)

Select file * ⓘ

Dell-Command-Configure_HW2H3_WIN_4.8.0.494_A00.intunewin

Name * ⓘ

Dell Command | Configure

Description * ⓘ

Dell-Command-Configure_HW2H3_WIN_4.8.0.494_A00.exe

Edit Description

Publisher * ⓘ

Dell Inc.

App Version ⓘ

4.8.0.494

Category ⓘ

0 selected

Show this as a featured app in the Company Portal ⓘ

Yes No

Information URL ⓘ

Enter a valid url

Privacy URL ⓘ

Enter a valid url

Previous 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'

The screenshot shows the 'Add App' interface on the 'Requirements' tab. It asks for requirements before installation. The 'Operating system architecture' field is set to '64-bit' and the 'Minimum operating system' field is set to 'Windows 10 2004'. Both fields are highlighted with red boxes. Below these are fields for disk space required (MB), physical memory required (MB), minimum number of logical processors required, and minimum CPU speed required (MHz). At the bottom are 'Previous' and 'Next' buttons, with 'Next' being highlighted.

Section 'Detection rules'

The screenshot shows the 'Add App' interface on the 'Detection rules' tab. This tab is highlighted with a red oval. Other tabs shown include 'App information', 'Program', 'Requirements', 'Dependencies', 'Supersedeance (preview)', 'Assignments', and 'Review + create'.

Field	Value
Rules format	Use a custom detection

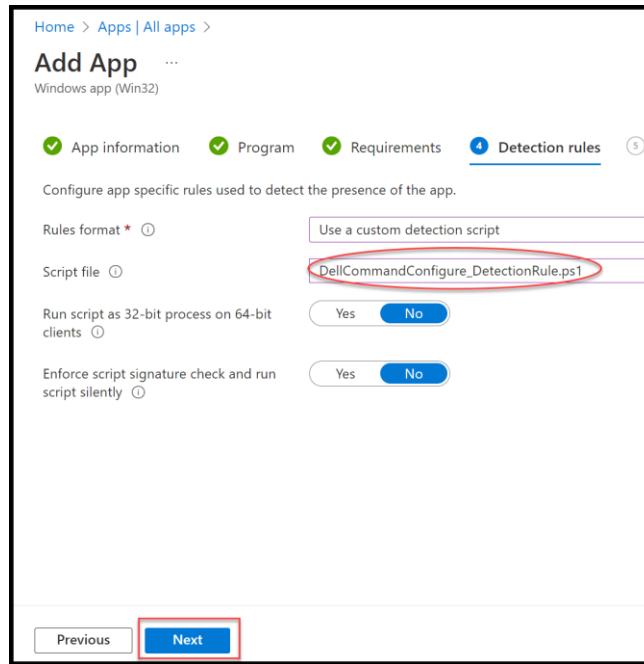
Click 'Folder'

The screenshot shows the 'Add App' interface on the 'Detection rules' tab. The 'Rules format' dropdown is set to 'Use a custom detection script' and is highlighted with a red box. A blue box highlights the 'Select a file' button next to it. Below are options for running the script as a 32-bit process on 64-bit clients and enforcing a script signature check.

Select 'DellCommandConfigure_DetectionRule.ps1'

The screenshot shows a file explorer window with the path 'OS (C) > Dell > IntuneWin > Input > Dell Command Configure > 4.8.0.494'. It lists three files: 'DellCommandConfigure_DetectionRule.ps1', 'DellCommandConfigure_install.ps1', and 'DellCommandConfigure_uninstall.ps1'. The first file is highlighted with a red box.

Click 'Next'



Section 'Dependencies'



No changes

Section ‘Supersedence’

Home > Apps | All apps >

Add App ...

Windows app (Win32)

App information Program Requirements Detection rules Dependencies S

When you supersede an application, you can specify which app will be updated or replaced. To update an app, disable the uninstall previous version option. To replace an app, enable the uninstall previous version option. There is a maximum of 10 updated or replaced apps, including references to other apps. For example, your app references another app. This other app references other apps, and so on. This scenario creates a graph of apps. All apps in the graph count toward the maximum value of 10. [Learn more](#)

If you select "Yes" please check
if the detection of old app does
not identify the new app

Apps that this app will supersede

Name	Publisher	Version	Uninstall previous version
Dell Command Configure	Dell Inc.	4.7.0.433	<input type="radio"/> Yes <input checked="" type="radio"/> No
Dell Command Configure	Dell Inc.	4.6.0.277	<input type="radio"/> Yes <input checked="" type="radio"/> No

+ Add ?

Previous Next

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’

Home > Apps > Windows >

Add App ...

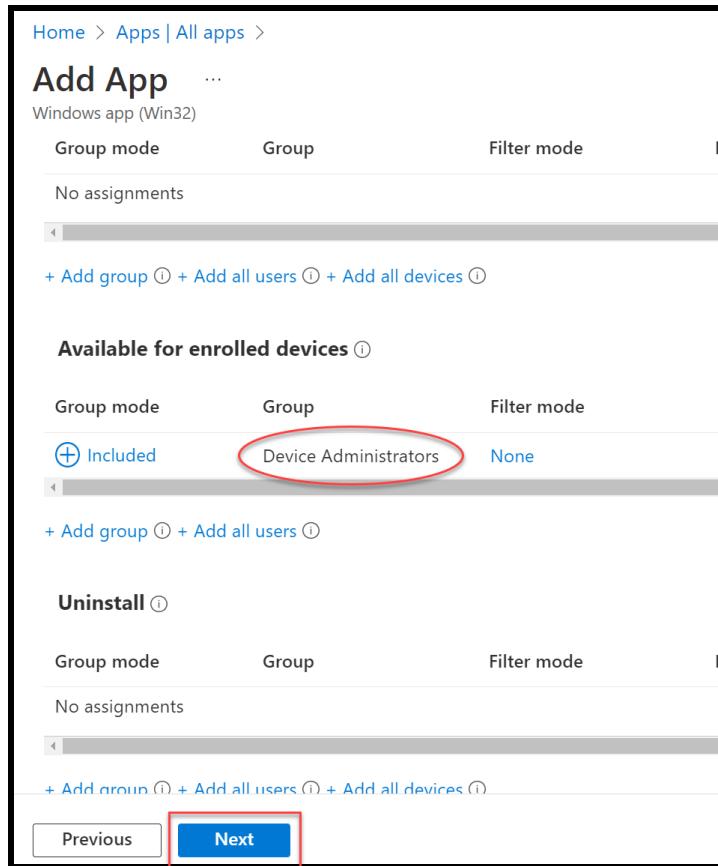
Windows app (Win32)

App information Program Requirements Detection rules Dependencies Supersedence (preview) A Assignments R Review + create

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'



The app is now finished

Click 'Create'

Home > Apps | All apps >

Add App ...

Windows app (Win32)

Program Requirements Detection rules Dependencies Superseded

Summary

App information

App package file	Dell-Command-Configure_HW2H3_WIN_4.8.0.494_A00.intunewin
Name	Dell Command Configure
Description	Dell-Command-Configure_HW2H3_WIN_4.8.0.494_A00.exe
Publisher	Dell Inc.
App Version	4.8.0.494
Category	--
Show this as a featured app in the Company Portal	Yes
Information URL	--
Privacy URL	--

Previous Create

Ready to work.

Name	Type	Status	Version	Assigned
Dell Command Configure	Windows app (Win32)	4.7.0.433	Yes	
Dell Command Configure	Windows app (Win32)	4.6.0.277	No	
Dell Command Configure	Windows app (Win32)	4.8.0.494	Yes	

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>

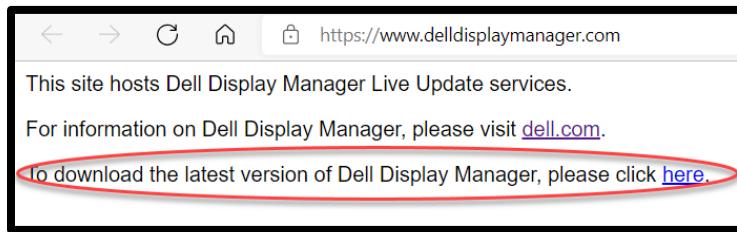
Dell Displays (Monitor) Models supported by Dell Display Manager
Dell Displays (Monitor) Models supported by Dell Display Manager (Windows Operating System)
Dell Display Manager 2.0 requires Windows 11 or Windows 10 build 17763 or newer.

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	

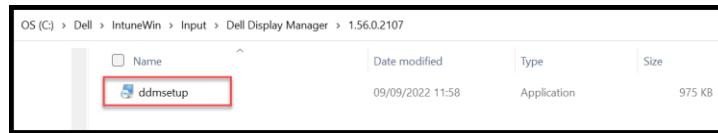
Download Dell Display Manager V1.x

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.



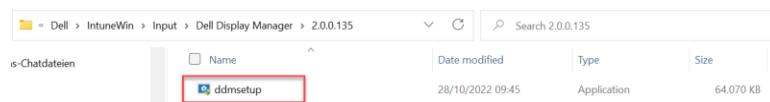
Download Dell Display Manager V2.x

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>

A screenshot of the Dell Support website's 'Drivers & Downloads' section. It shows a search interface for finding drivers for the Dell Display and Peripheral Manager. Below it, a table lists available downloads, with two entries highlighted with red boxes: 'Dell Peripheral Manager' and 'Dell Display Manager Application'. Both entries have a 'Download' button next to them.

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.

```
##### 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:SOFTWAREWOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty | Where-Object {$_._DisplayName -match "Dell Display Manager"} | Select-Object -ExpandProperty DisplayName
$ApplicationID_current = Get-ChildItem -Path HKLM:SOFTWAREWOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty | Where-Object {$_._DisplayName -match "Dell Display Manager"} | Select-Object -ExpandProperty QuietUninstallString

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

If ($ProgramVersion_current -ne $null)
{
    if ($ProgramVersion_target -gt $ProgramVersion_current)
    {
        $IDProcess = Get-Process | Where-Object {$_._ProcessName -like 'ddm'} | select -ExpandProperty ID
        Stop-Process -Id $IDProcess -Force
        Start-Process cmd.exe -ArgumentList '/c',$ApplicationID_current -Wait

        Start-Sleep -Seconds 10
    }
    Else
    {
        Write-Host "Gleiche Version"
        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"
```

Uninstall Script

The script starts the uninstalling of application.

```
##### Variables
$ApplicationID_current = Get-ChildItem -Path HKLM:SOFTWAREWOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty | Where-Object {$_._DisplayName -match "Dell Display Manager"} | Select-Object -ExpandProperty QuietUninstallString

#####
#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
```

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\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.

```
##### 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\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty |
Where-Object {$_._DisplayName -match "Dell Display Manager" } | Select-Object -ExpandProperty DisplayName
$ApplicationID_current = Get-ChildItem -Path HKLM:SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty | Where-Object
{$_._DisplayName -match "Dell Display Manager" } | Select-Object -ExpandProperty UninstallString

#####
#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
        if ($null -ne $IDProcess)
        {
            Stop-Process -Id $IDProcess -Force
        }

        Start-Process $ApplicationID_current -ArgumentList '/S' -Wait -NoNewWindow
        Start-Sleep -Seconds 10
    }
    Else
    {
        Write-Host "This version is allready installed"
        Exit 0
    }
}
Else
{
    Write-Host "No Dell Display Manager 2 was installed"
}

#####
#Install new Software
#
$ArgList = '/verysilent /NotifyUpdate=disable'
Start-Process -FilePath ".\ddmsetup.exe" -ArgumentList $ArgList -Wait -NoNewWindow
Start-Sleep -Seconds 10
```

Uninstall Script

The script starts the uninstalling of application.

```
##### Variables
$ApplicationID_current = Get-ChildItem -Path HKLM:\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall | Get-ItemProperty | Where-Object {$_._DisplayName -match "Dell Display Manager" } | Select-Object -ExpandProperty UninstallString

$ApplicationID_current = $ApplicationID_current

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

Start-Process $ApplicationID_current -ArgumentList '/S' -Wait -NoNewWindow
```

Detection Script

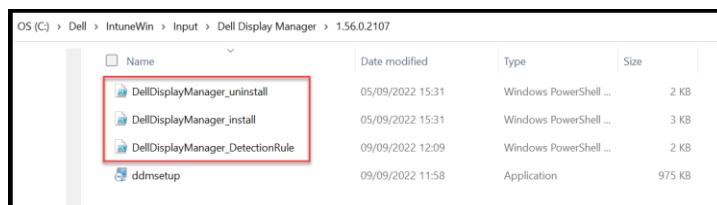
The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

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

```
#####
# Program with target Version
#####
$ProgramPath = "C:\Program Files\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.

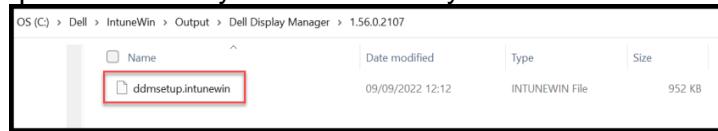


Start the Microsoft Win32 Content Prep Tool (aka IntuneAppUtil.exe). In case you are not familiar with this tool, you will find documentation here: <https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-prepare>

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

```
Please specify the source folder: C:\Dell\IntuneWin\Input\Dell Display Manager\1.56.0.2107
Please specify the setup file: ddmsetup.exe
Please specify the output folder: C:\Dell\IntuneWin\Output\Dell Display Manager\1.56.0.2107
Do you want to specify catalog folder (Y/N)?
```

IntuneWin is now prepared and ready for installation by Intune.



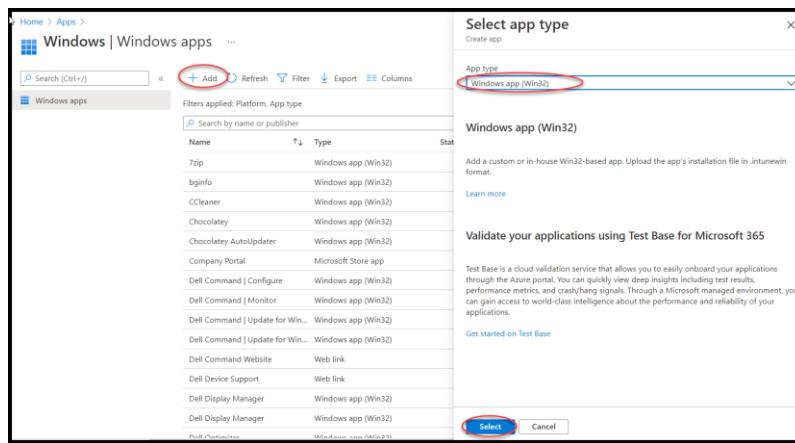
Import and Deployment settings Dell Display Manager for Intune

Click 'Add'

Field	Value
Source Folder	Windows app (Win32)

Click 'Select'

Select Windows app (Win32) as application.

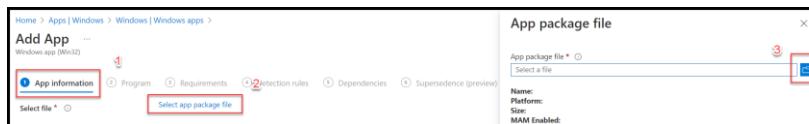


Section 'App information'

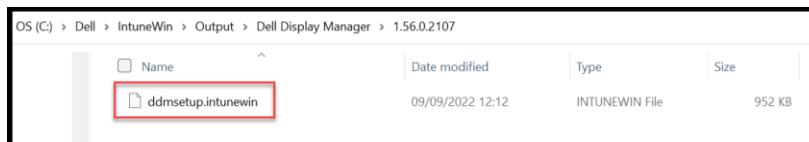


Click 'Select app package file'

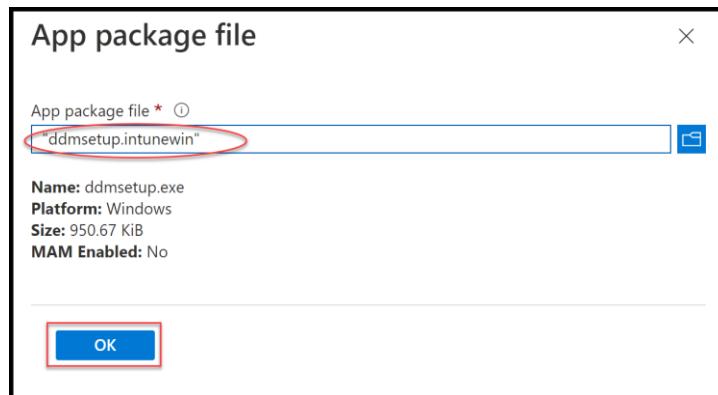
Click 'Folder'



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'

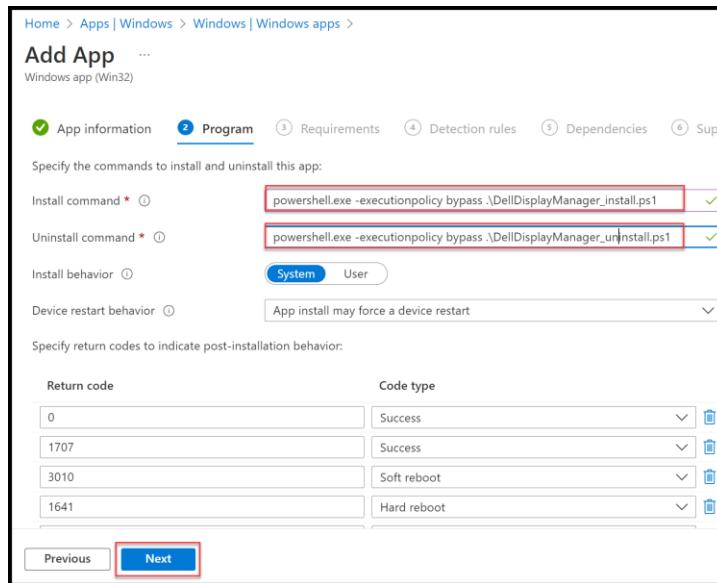
The screenshot shows an 'Add App' form. At the top, it says 'Home > Apps | Windows > Windows | Windows apps > Add App ...'. The form has several fields: 'Name * ⓘ' with 'Dell Display Manager' entered, 'Description * ⓘ' with 'ddmsetup.exe', 'Publisher * ⓘ' with 'Dell Inc.', 'App Version ⓘ' with '1.56.0.2107', 'Category ⓘ' with '0 selected', and a 'Show this as a featured app in the Company Portal ⓘ' checkbox with 'Yes' selected. At the bottom are 'Previous' and 'Next' buttons, with 'Next' highlighted with a red box.

Section 'Program'



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

Click 'Next'



Specify the commands to install and uninstall this app:

Install command * ⓘ powershell.exe -executionpolicy bypass .\\DellDisplayManager_install.ps1

Uninstall command * ⓘ powershell.exe -executionpolicy bypass .\\DellDisplayManager_uninstall.ps1

Install behavior ⓘ System

Device restart behavior ⓘ App install may force a device restart

Return code	Code type
0	Success
1707	Success
3010	Soft reboot
1641	Hard reboot

Previous Next

Section 'Requirements'

The screenshot shows a software interface for adding an application. At the top, there's a breadcrumb navigation: Home > Apps > Windows >. Below it, the title 'Add App' and a subtitle 'Windows app (Win32)'. A horizontal navigation bar at the top right includes tabs: App information (green checkmark), Program (green checkmark), Requirements (blue circle with a white dot, currently selected), Detection rules (grey circle), Dependencies (grey circle), Superseding (grey circle), Assignments (grey circle), and Review + create (grey circle). The main content area is titled 'Requirements' and contains a table with two rows:

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'

The screenshot shows the 'Add App' interface again, this time on the 'Requirements' tab. The navigation bar at the top right shows the 'Requirements' tab is selected (blue circle with a white dot). The main content area is titled 'Specify the requirements that devices must meet before the app is installed:' and contains several input fields:

- Operating system architecture * (radio button): 2 selected (highlighted with a red box).
- Minimum operating system * (radio button): Windows 10 2004 (highlighted with a red box).
- Disk space required (MB): [empty input field]
- Physical memory required (MB): [empty input field]
- Minimum number of logical processors required: [empty input field]
- Minimum CPU speed required (MHz): [empty input field]

Below these fields is a section titled 'Configure additional requirement rules' with a table:

Type	Path/Script
No requirements are specified.	

At the bottom are two buttons: 'Previous' and 'Next' (highlighted with a red box).

Section 'Detection rules'

The screenshot shows the 'Add App' interface with the 'Detection rules' tab highlighted. Other tabs like 'App information', 'Program', 'Requirements', 'Dependencies', 'Supersedeance (preview)', 'Assignments', and 'Review + create' are also visible.

Field	Value
Rules format	Use a custom detection

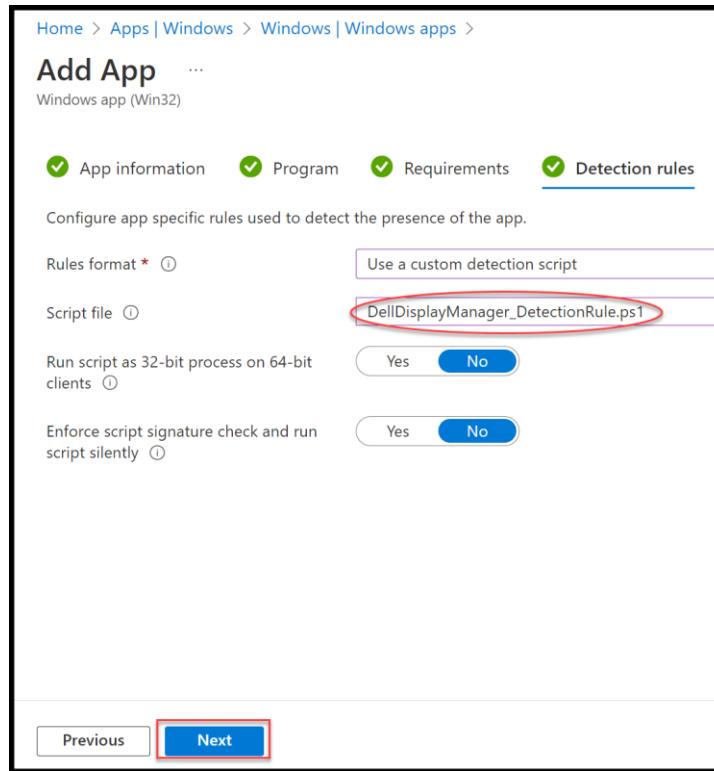
Click 'Folder'

The screenshot shows the 'Add App' configuration page under the 'Detection rules' tab. It includes fields for 'Rules format' (set to 'Use a custom detection script'), 'Script file' (with a 'Select a file' button), and options for running the script as 32-bit or 64-bit.

Select 'DellDisplayManager_DetectionRule.ps1'

The screenshot shows a file explorer window displaying files in the path 'OS (C:) > Dell > IntuneWin > Input > Dell Display Manager > 1.56.0.2107'. The file 'DellDisplayManager_DetectionRule.ps1' is highlighted with a red box.

Click 'Next'



Section 'Dependencies'



No changes

Section 'Supersedence'

Home > Apps | Windows > Windows | Windows apps >

Add App ...

Windows app (Win32)

App information Program Requirements Detection rules Dependencies Sup

When you supersede an application, you can specify which app will be updated or replaced. To update an app, disable the uninstall previous version option. To replace an app, enable the uninstall previous version option. There is a maximum of 10 updated or replaced apps, including references to other apps. For example, your app references another app. This other app references other apps, and so on. This scenario creates a graph of apps. All apps in the graph count toward the maximum value of 10. [Learn more](#)

If you select "Yes", please check if the detection of old app does not identify the new app.

Apps that this app will supersede

Name	Publisher	Version	Uninstall previous version
Dell Display Manager	Dell Inc.	1.54.0.2068	<input type="radio"/> Yes <input checked="" type="radio"/> No
Dell Display Manager	Dell Inc.	1.53.0.2065	<input type="radio"/> Yes <input checked="" type="radio"/> No

+ Add ⓘ

Previous Next

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.

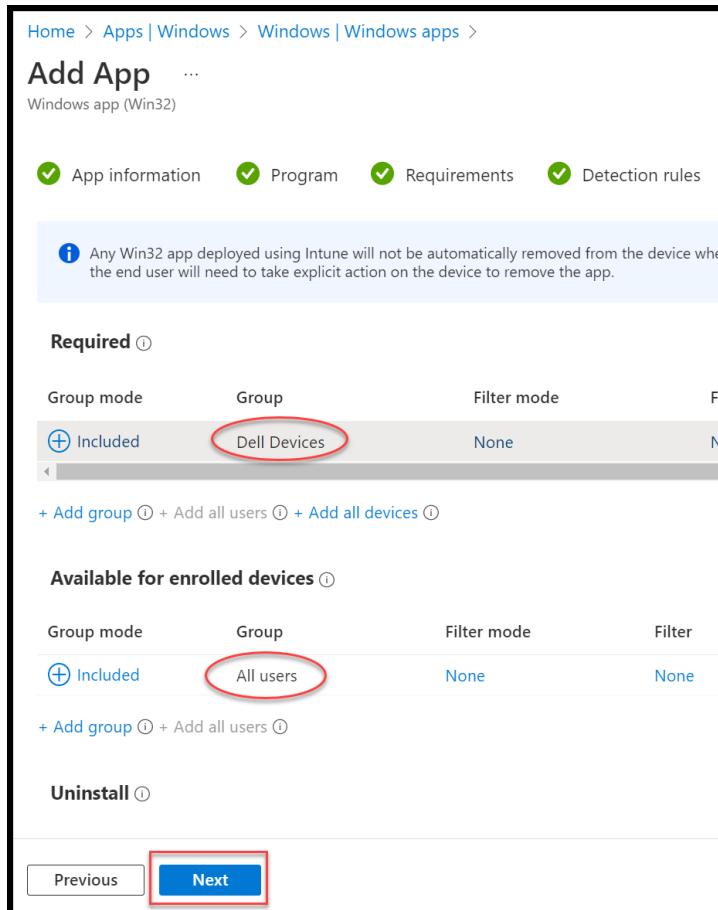
Section 'Assignments'



The Dell Display Manager supports only Dell Displays (Latitude, Optiplex, Precision and mobile XPS) it makes sense to have a 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'

Home > Apps | Windows > Windows | Windows apps >

Add App

Windows app (Win32)

Program Requirements Detection rules

Summary

App information

App package file	ddmsetup.intunewin
Name	Dell Display Manager
Description	ddmsetup.exe
Publisher	Dell Inc.
App Version	1.56.0.2107
Category	--
Show this as a featured app in the Company Portal	Yes
Information URL	--
Privacy URL	--

Previous Create

Ready to work.

Name	Type	Status	Version	Assigned
Dell Display Manager	Windows app (Win32)		1.53.0.2065	No
Dell Display Manager	Windows app (Win32)		1.56.0.2107	Yes
Dell Display Manager	Windows app (Win32)		1.54.0.2068	No

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.

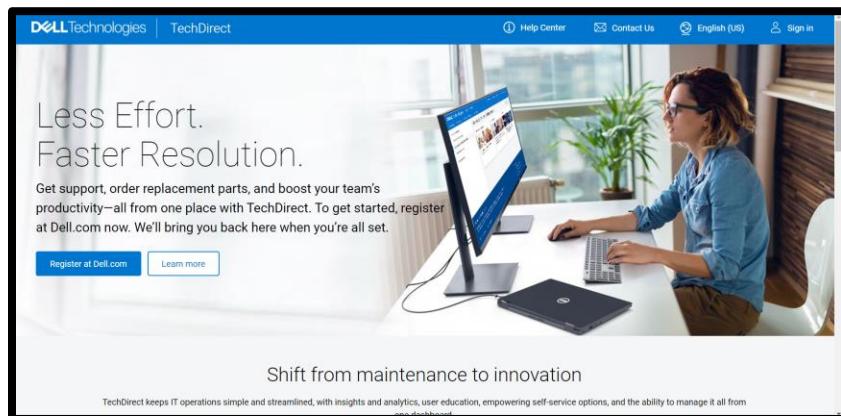
SupportAssist for Business PCs with Windows OS Administrator Guide

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

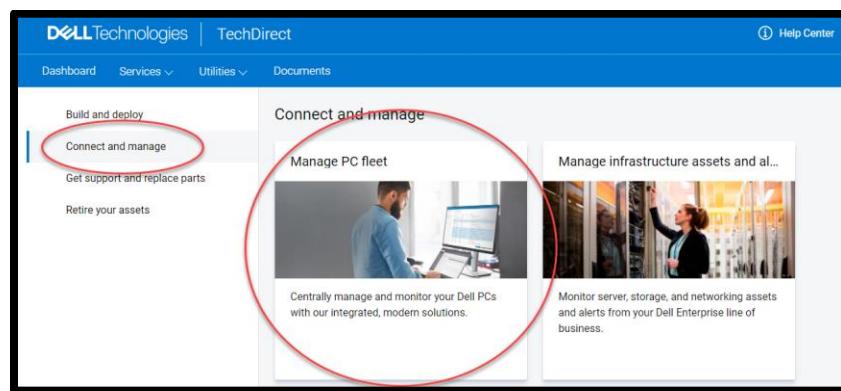
Prepare Dell SupportAssist for Business PCs for Intune

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

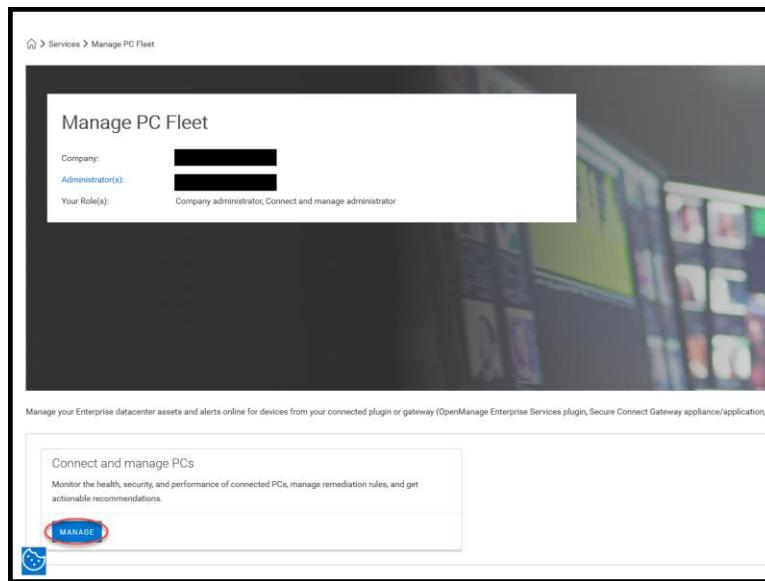
This requires a Dell TechDirect Account <https://techdirect.dell.com/>



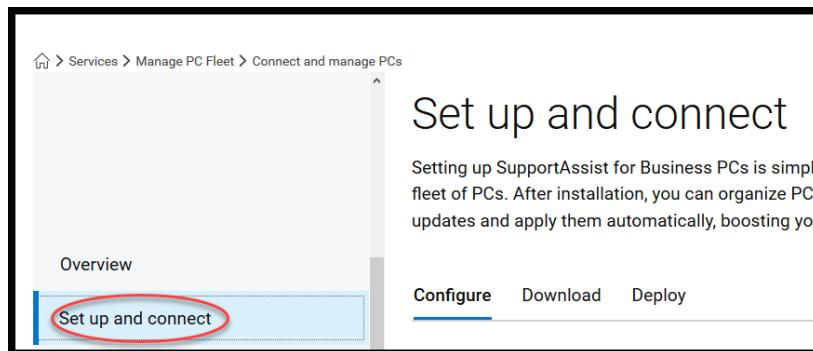
After Login move to Connect and Manage section and open Manage PC fleet.



Click 'Manage'

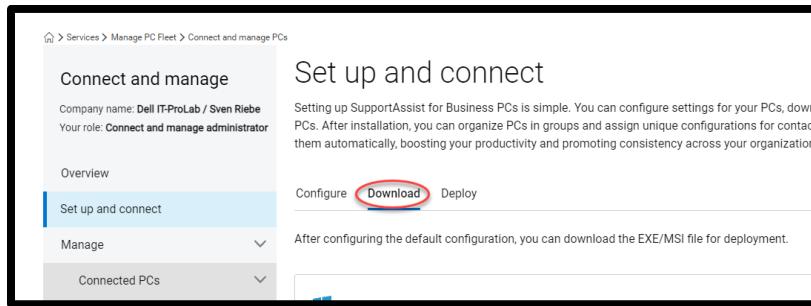


Click on Set up and connect



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>

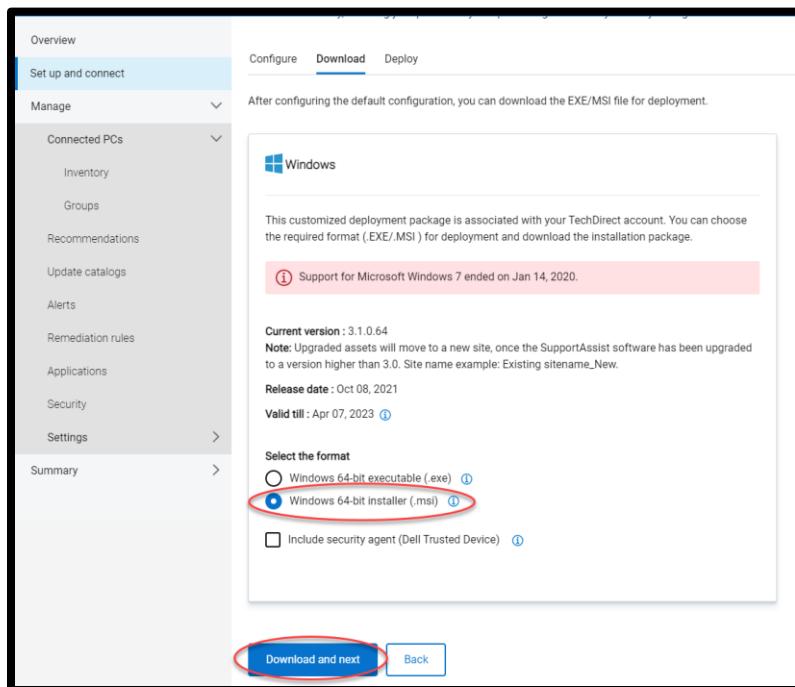
After you have fulfilled the configure section, you can download the software.



Download the Windows 64-bit Installer (.msi) now.

Choose Windows 64-bit installer (.msi)

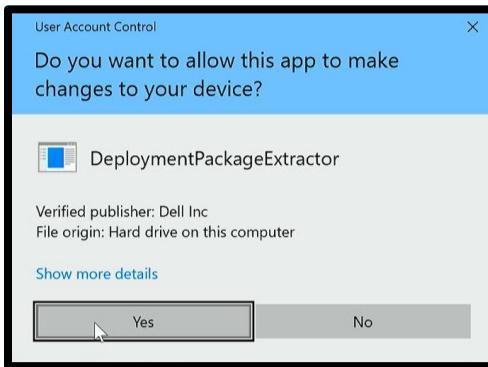
Click 'Download and next'



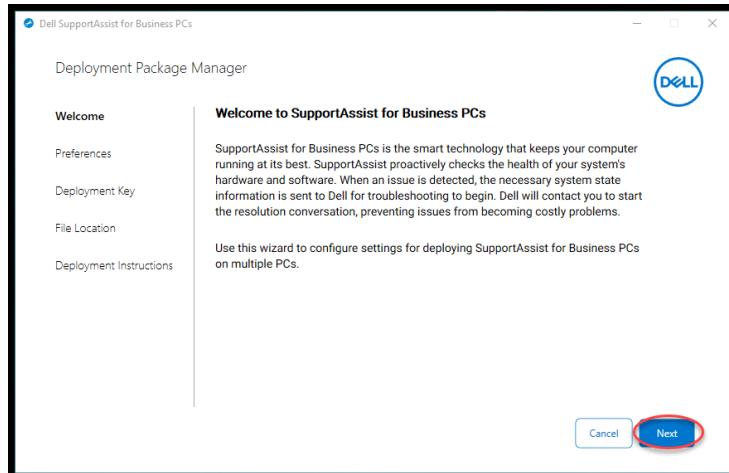
Go to your download folder and check for this file: SupportAssistExtractorx64.exe



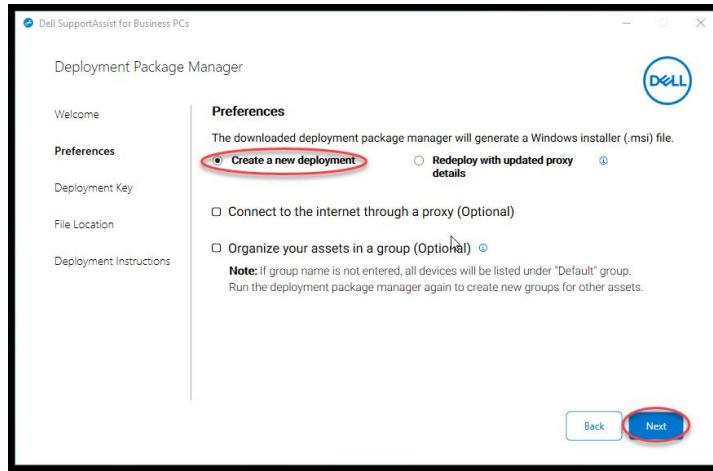
Start this file with administrator rights



Prepare the MSI and MST for the deployment.
Click 'Next'

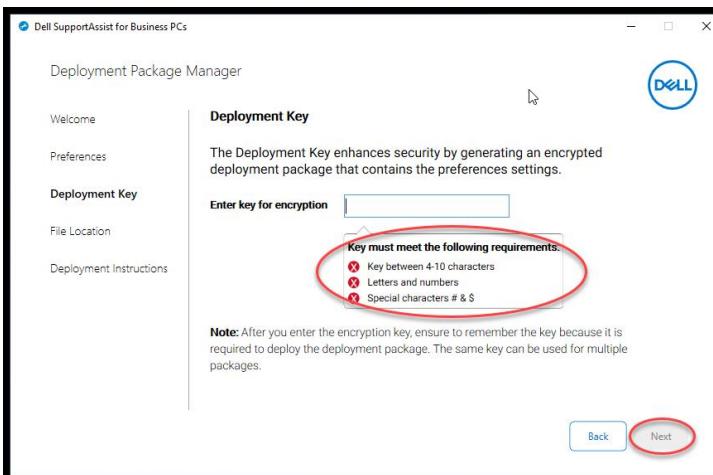


Select 'Create a new deployment'
Click 'Next'

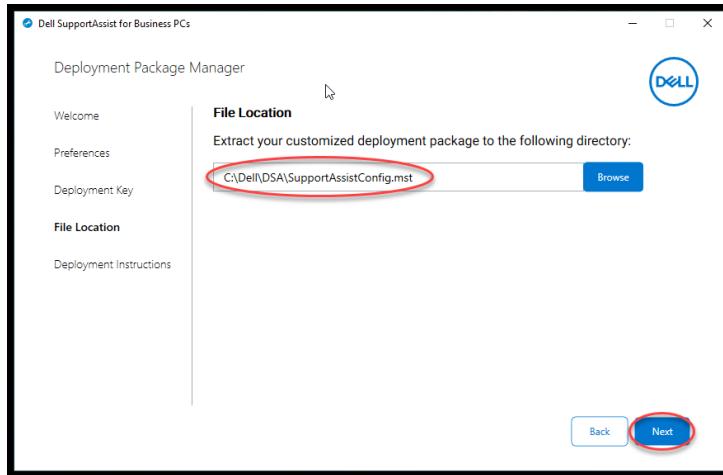


Note: For the deployment you need to setup a password (4-10 characters using numbers, letters, and special characters).

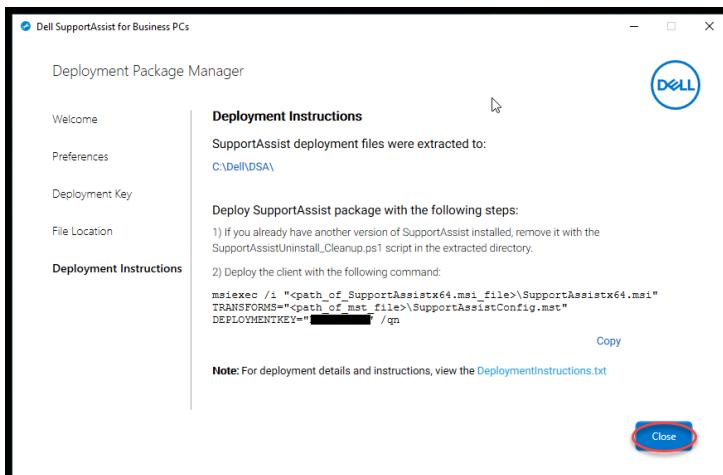
Click 'Next'



Choose the path where the installer should be saved, e.g., C:\Dell\DSA
Click 'Next'



Final Summary.
Click 'Close'



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 two 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.

Name	Date modified	Type	Size
DeploymentInstructions	08/09/2022 12:59	Text Document	5 KB
SupportAssist_ReStartService	08/09/2022 12:59	Windows PowerShell ...	14 KB
SupportAssistConfig.mst	08/09/2022 12:59	MST File	20 KB
SupportAssistUninstall_Cleanup	08/09/2022 12:59	Windows PowerShell ...	32 KB
SupportAssist64	08/09/2022 12:59	Windows Installer Pa...	203.456 KB

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.

Name	Date modified	Type	Size
SupportAssistUninstall_Cleanup	08/09/2022 13:00	Windows PowerShell ...	32 KB

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>

Scripts Folder for SupportAssist for Business PC

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.

The **yellow marked** version must be adjusted with each new version, and you need to fill in your Deployment Key, you have generated before on Page **84**.

```
##### Variables
$InstallerName = Get-ChildItem .\*.msi | Select-Object -ExpandProperty Name
$ProgramPath = $InstallerName
[Version]$ProgramVersion_target = "3.2.0.87" #need to change to Version of MSI File
[Version]$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%Support%Business%'" | Select-Object -ExpandProperty Version
$ApplicationID_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell%Support%Business%'" | Select-Object -ExpandProperty IdentifyingNumber
$Argumentstring = '/i ' + "" + $ProgramPath + " TRANSFORMS="SupportAssistConfig.mst" DEPLOYMENTKEY="Your Deployment Key" /qn'

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

If ($ProgramVersion_current -ne $null)
{
    if ($ProgramVersion_target -gt $ProgramVersion_current)
    {
        Start-Process -FilePath msiexec.exe -ArgumentList "/x $ApplicationID_current /qn" -Wait
    }
    Else
    {
        Write-Host "same version is installed"
        Exit 0
    }
}

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

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

Uninstall Script

'SupportAssistUninstall_Cleanup.ps1' from the installer package

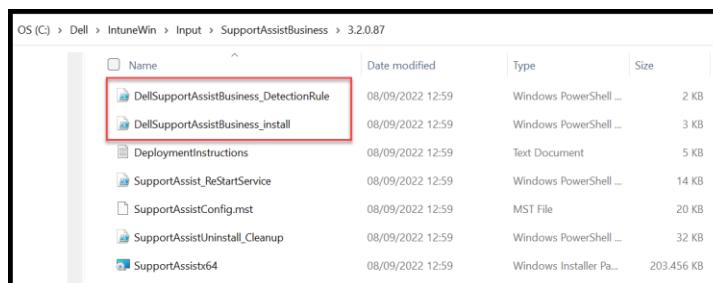
Detection Script (main install)

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.

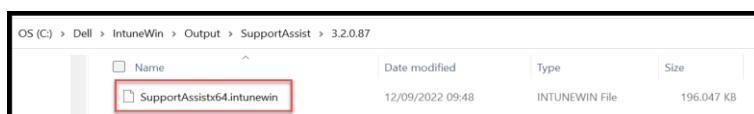


Start the Microsoft Win32 Content Prep Tool (aka IntuneAppUtil.exe). In case you are not familiar with this tool, you will find documentation here: <https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-prepare>

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

```
Please specify the source folder: C:\Dell\IntuneWin\Input\DSA\3.2.0.87
Please specify the setup file: SupportAssistx64.msi
Please specify the output folder: C:\Dell\IntuneWin\Output\SupportAssist\3.2.0.87
Do you want to specify catalog folder (Y/N)?n_
```

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.

```
##### Variables
$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

```
Please specify the source folder: C:\Dell\IntuneWin\Input\SupportAssistBusiness\Dependency  
Please specify the setup file: SupportAssistUninstall_Cleanup.ps1  
Please specify the output folder: C:\Dell\IntuneWin\Output\SupportAssist\Dependency  
Do you want to specify catalog folder (Y/N)?
```

IntuneWin is now prepared and ready for installation by Intune.



Import and Deployment settings Dell SupportAssist for Business PCs for Intune

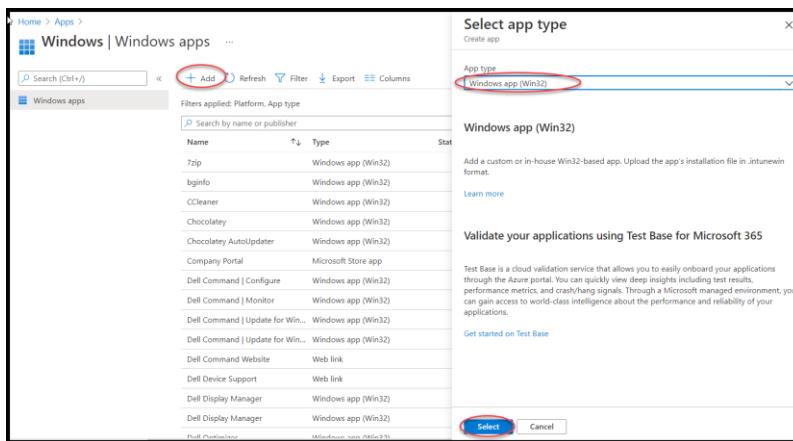
Part Dependency Application

Click 'Add'

Field	Value
Source Folder	Windows app (Win32)

Click 'Select'

Select Windows app (Win32) as application.



Section 'App information'

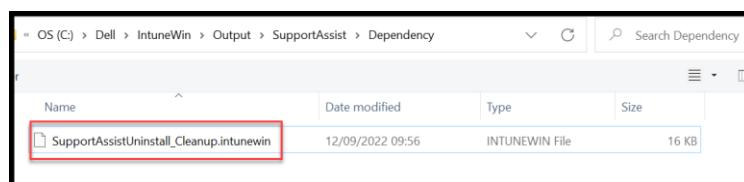


Click 'Select app package file'

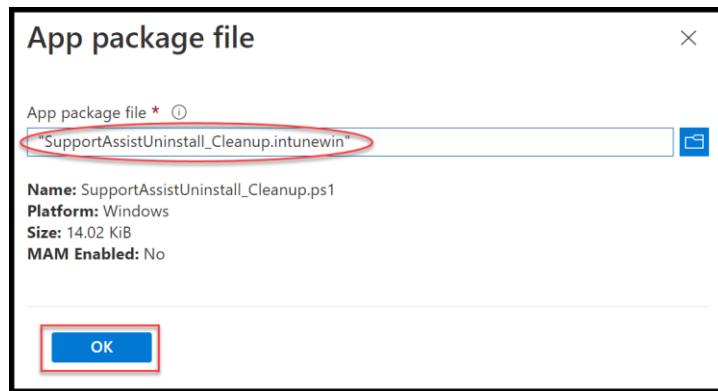
Click 'Folder'



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

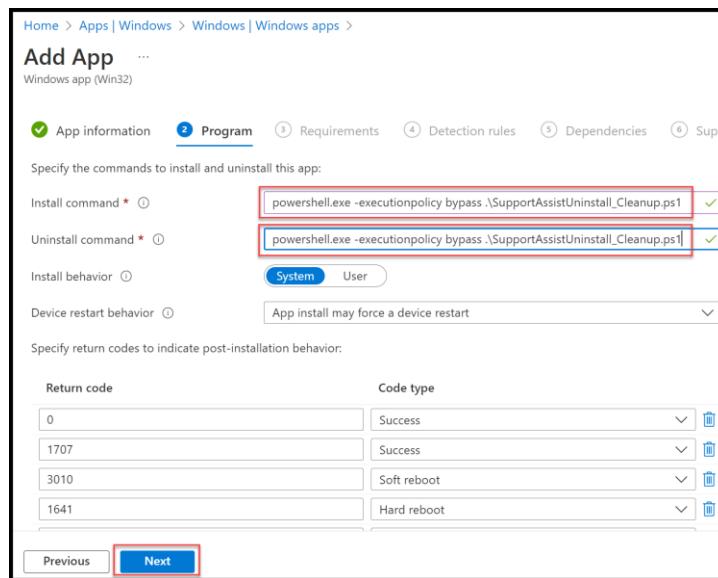
Click 'Next'

Section 'Program'



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

Click 'Next'



Specify the commands to install and uninstall this app:

Install command * powershell.exe -executionpolicy bypass \\SupportAssistUninstall_Cleanup.ps1

Uninstall command * powershell.exe -executionpolicy bypass .\\SupportAssistUninstall_Cleanup.ps1

Install behavior System

Device restart behavior App install may force a device restart

Return code	Code type
0	Success
1707	Success
3010	Soft reboot
1641	Hard reboot

Previous Next

Section 'Requirements'

The screenshot shows a software interface titled 'Add App'. At the top, there are several tabs: 'App information' (with a green checkmark), 'Program' (with a green checkmark), 'Requirements' (which is highlighted with a red oval and has a blue checkmark), 'Detection rules' (with a grey circle), 'Dependencies' (with a grey circle), 'Superseding (preview)' (with a grey circle), 'Assignments' (with a grey circle), and 'Review + create' (with a grey circle). Below the tabs, the text 'Windows app (Win32)' is displayed.

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'

The screenshot shows the 'Add App' interface at the 'Requirements' step. The URL in the address bar is 'Home > Apps | Windows > Windows | Windows apps > Add App ...'. The 'Requirements' tab is selected and highlighted with a red oval. Below it, the text 'Specify the requirements that devices must meet before the app is installed:' is displayed. There are five input fields: 'Operating system architecture *' with the value '64-bit' (highlighted with a red rectangle), 'Minimum operating system *' with the value 'Windows 10 2004' (highlighted with a blue rectangle), 'Disk space required (MB)' (empty), 'Physical memory required (MB)' (empty), and 'Minimum number of logical processors required' (empty). At the bottom, there are 'Previous' and 'Next' buttons, with 'Next' being highlighted with a red rectangle.

Section 'Detection rules'

The screenshot shows the 'Add App' interface with the 'Detection rules' tab highlighted. Other tabs like 'App information', 'Program', 'Requirements', 'Dependencies', 'Supersedeance (preview)', 'Assignments', and 'Review + create' are also visible.

Field	Value
Rules format	Use a custom detection

Click 'Folder'

The screenshot shows the 'Add App' interface under the 'Detection rules' tab. The 'Rules format' dropdown is set to 'Use a custom detection script'. The 'Script file' input field is highlighted with a red box. Below it, there are options for running the script as 32-bit or 64-bit and for silent execution.

Select 'DellSupportAssistBusinessDependency_DetectionRule.ps1'

The screenshot shows a file explorer window with the path 'OS (C) > Dell > IntuneWin > Input > SupportAssistBusiness > Dependency'. It lists two files: 'DellSupportAssistBusinessDependency_DetectionRule.ps1' and 'SupportAssistUninstall_Cleanup.ps1'. The first file is highlighted with a red box.

Click 'Next'

The screenshot shows the 'Add App' interface under the 'Detection rules' tab. The 'Script file' input field contains the path 'D:\IntuneWin\Input\SupportAssistBusiness\Dependency\DellSupportAssistBusinessDependency_DetectionRule.ps1'. The 'Next' button at the bottom is highlighted with a red box.

Section 'Dependencies'



No changes

Section 'Supersedence'

No changes

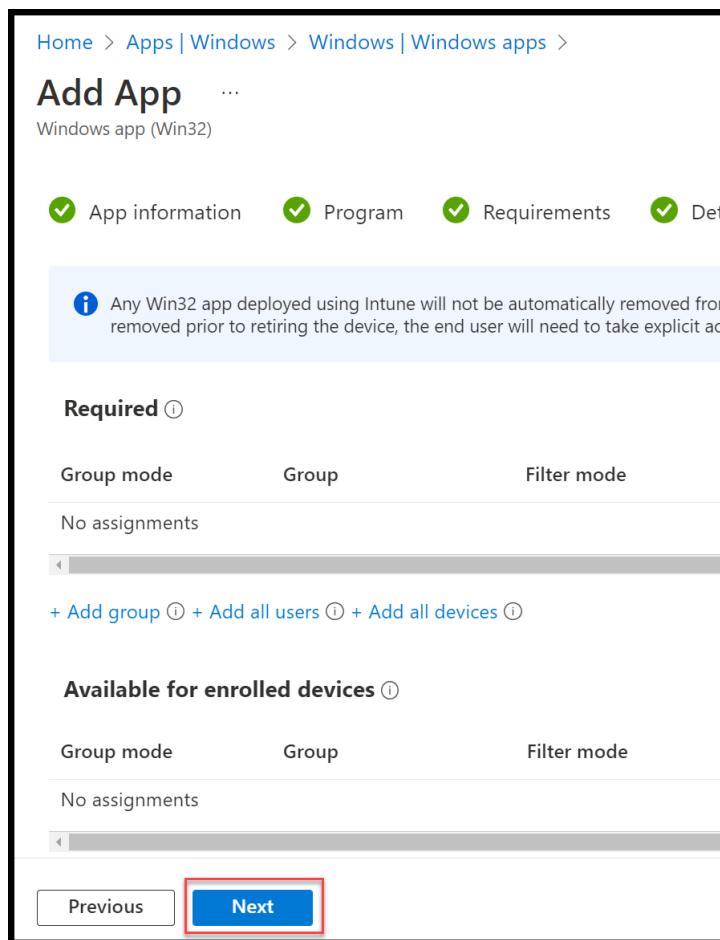
Section ‘Assignments’



No changes

Option	Value
Required	
Available for enrolled devices	
Uninstall	

Click ‘Next’



The app is now finished

Click 'Create'

Home > Apps | Windows > Windows | Windows apps >

Add App ...

Windows app (Win32)

✓ Program ✓ Requirements ✓ Detection rules ✓ Dependencies

Summary

App information

App package file	SupportAssistUninstall_Cleanup.intunewin
Name	SupportAssist Uninstall Cleanup
Description	SupportAssistUninstall_Cleanup.ps1
Publisher	Dell Inc.
App Version	3.2.0.87
Category	--
Show this as a featured app in the Company Portal	No
Information URL	--
Privacy URL	--

Previous **Create**

Ready to work.

Windows apps ...

+ Add ⏪ Refresh ⏴ Filter ⏴ Export ⏴ Columns

Filters applied: Platform, App type

Name	Type	Status	Version	Assigned
Dell SupportAssist Cleanup	Windows app (Win32)	1.0.0.2	No	...
Dell SupportAssist for Business PCs	Windows app (Win32)	3.1.1.18	No	...
Dell SupportAssist for Business PCs	Windows app (Win32)	3.1.0.64	No	...
Dell SupportAssist for Business PCs	Windows app (Win32)	3.2.0.87	Yes	...
Dell SupportAssist for Business PCs	Windows app (Win32)	3.0.0.34	No	...
SupportAssist Uninstall Cleanup	Windows app (Win32)	3.2.0.87	No	...

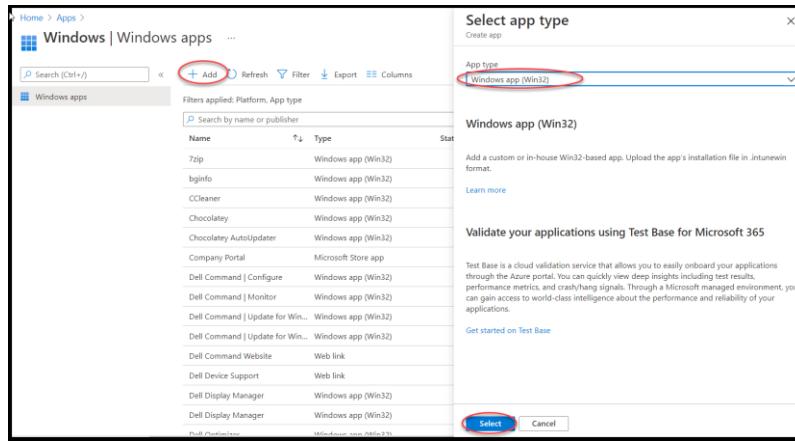
Part SupportAssist for Business Application

Click 'Add'

Field	Value
Source Folder	Windows app (Win32)

Click 'Select'

Select Windows app (Win32) as application.

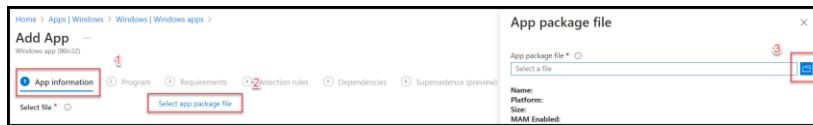


Section 'App information'

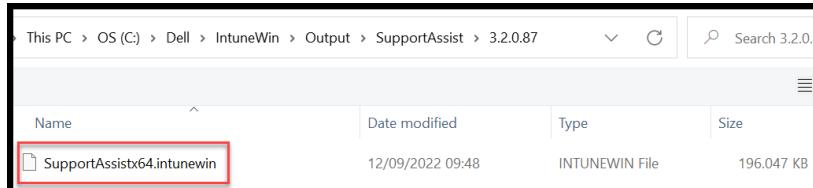


Click 'Select app package file'

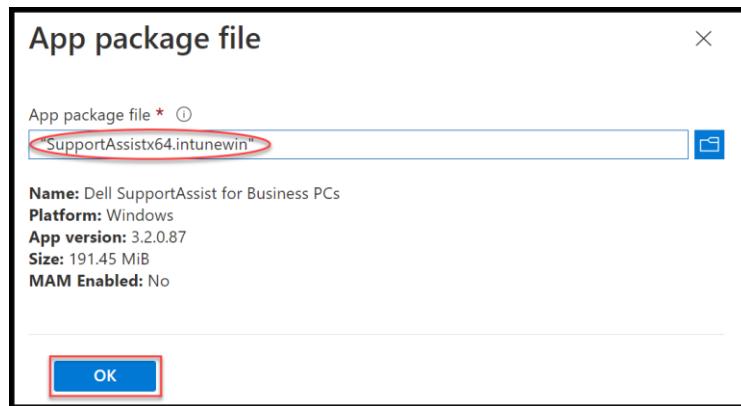
Click 'Folder'



Select 'SupportAssistx64.intunewin'



Click 'OK'



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

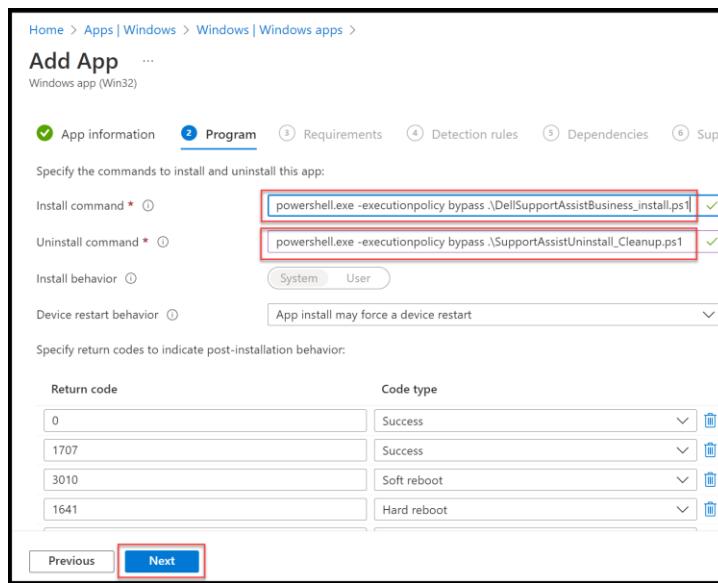
Click 'Next'

Section 'Program'



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

Click 'Next'



Home > Apps | Windows > Windows | Windows apps >

Add App ...

Windows app (Win32)

Specify the commands to install and uninstall this app:

Install command * ⓘ powershell.exe -executionpolicy bypass .\\DellSupportAssistBusiness_install.ps1 ✓

Uninstall command * ⓘ powershell.exe -executionpolicy bypass .\\SupportAssistUninstall_Cleanup.ps1 ✓

Install behavior ⓘ System User

Device restart behavior ⓘ App install may force a device restart

Specify return codes to indicate post-installation behavior:

Return code	Code type
0	Success
1707	Success
3010	Soft reboot
1641	Hard reboot

Previous Next

Section 'Requirements'

The screenshot shows a software interface titled 'Add App ...' for a 'Windows app (Win32)'. At the top, there are several tabs: 'App information' (with a green checkmark), 'Program' (with a green checkmark), 'Requirements' (which is highlighted with a red oval and has a blue circle), 'Detection rules' (with a grey outline), 'Dependencies' (with a grey outline), 'Superseding (preview)' (with a grey outline), 'Assignments' (with a grey outline), and 'Review + create' (with a grey outline). Below the tabs, the word 'Requirements' is repeated in a larger font.

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'

The screenshot shows the 'Add App' interface on the 'Requirements' page. The URL in the address bar is 'Home > Apps | Windows > Windows | Windows apps > Add App ...'. The 'Requirements' tab is selected, indicated by a blue underline and a red rectangle around it. Below the tabs, the text 'Specify the requirements that devices must meet before the app is installed:' is displayed. There are five input fields: 'Operating system architecture *' with the value '64-bit' (highlighted with a red rectangle), 'Minimum operating system *' with the value 'Windows 10 2004' (highlighted with a blue rectangle), 'Disk space required (MB)' (empty), 'Physical memory required (MB)' (empty), and 'Minimum number of logical processors required' (empty). At the bottom, there are 'Previous' and 'Next' buttons, with 'Next' being highlighted with a red rectangle.

Section 'Detection rules'

The screenshot shows the 'Add App' interface with the 'Detection rules' tab selected. The tabs at the top are: App information, Program, Requirements, Detection rules (selected), Dependencies, Supersedeance (preview), Assignments, and Review + create.

Field	Value
Rules format	Use a custom detection

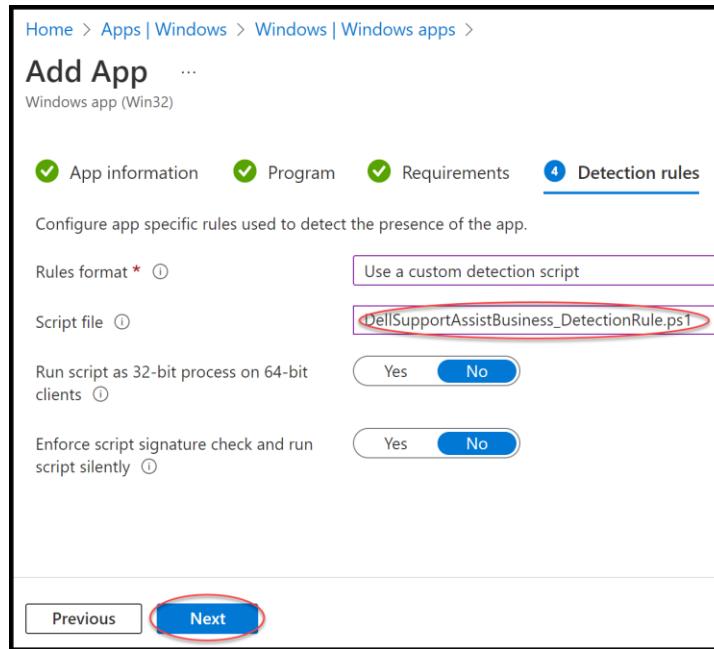
Click 'Folder'

The screenshot shows the 'Add App' interface under the 'Detection rules' tab. It includes fields for 'Rules format' (set to 'Use a custom detection script'), 'Script file' (with a 'Select a file' button highlighted by a red box), and options for running the script as 32-bit or 64-bit and enforcing silent execution.

Select 'DellSupportAssistBusiness_DetectionRule.ps1'

The screenshot shows a file explorer window displaying the contents of the 'SupportAssistBusiness' folder. The files listed are: DellSupportAssistBusiness_DetectionRule.ps1 (highlighted by a red box), DellSupportAssistBusiness_install.ps1, SupportAssist_ReStartService.ps1, and SupportAssistUninstall_Cleanup.ps1.

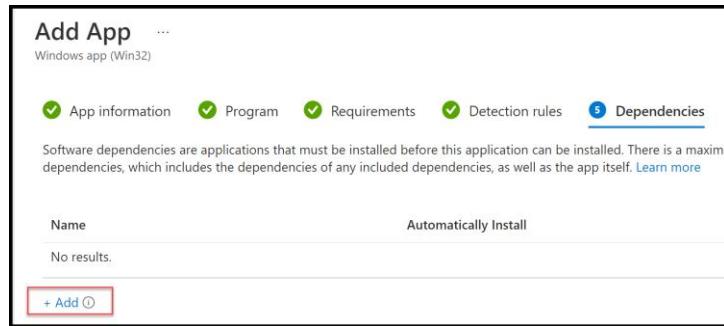
Click 'Next'



Section 'Dependencies'

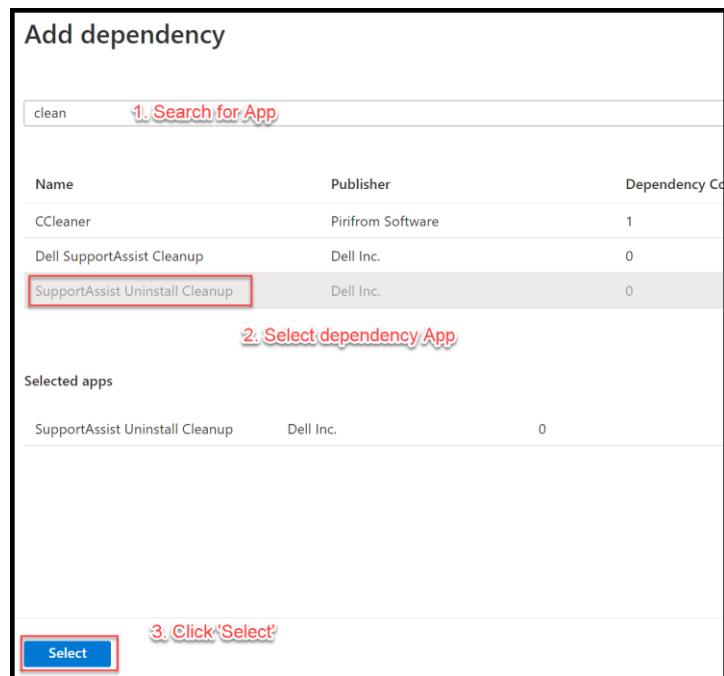


Click 'Add'



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

Click 'Select'



Field	Value
Automatically Install	Yes

Click 'Next'

Home > Apps | Windows > Windows | Windows apps >

Add App ...

Windows app (Win32)

App information Program Requirements Detection rules Dependencies

Software dependencies are applications that must be installed before this application can be installed. There is a maximum of 100 dependencies, which includes the dependencies of any included dependencies, as well as the app itself. [Learn more](#)

Name	Automatically Install
SupportAssist Uninstall Cleanup	<input checked="" type="button"/> Yes <input type="button"/> No

+ Add ⓘ

Previous Next

Section 'Supersedence'

No changes

Section 'Assignments'

Home > Apps > Windows >

Add App ...

Windows app (Win32)

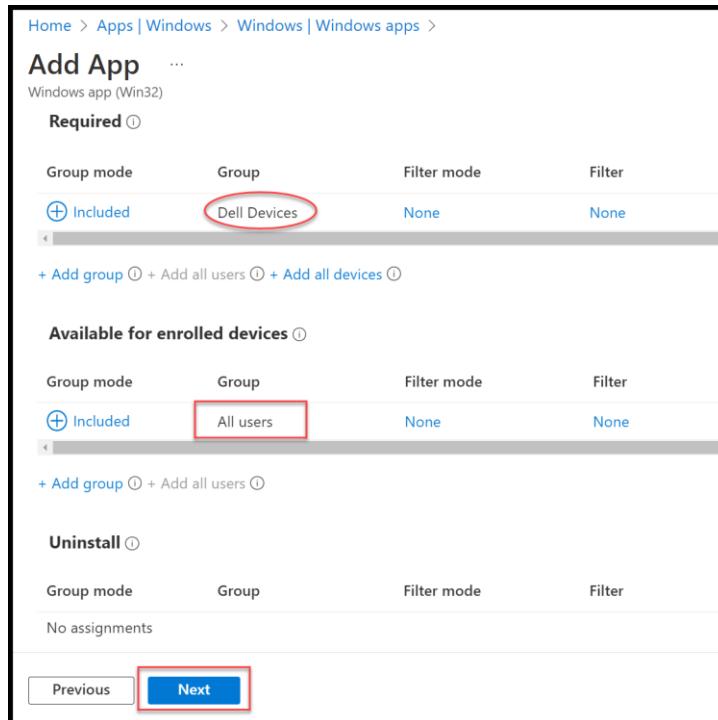
App information Program Requirements Detection rules Dependencies Supersedence (preview) Assignments ⓘ Review + create

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'

Home > Apps | Windows > Windows | Windows apps >

Add App

Windows app (Win32)

Program Requirements Detection rules Dependencies

Summary

App information

App package file	SupportAssistx64.intunewin
Name	Dell SupportAssist for Business PCs
Description	Dell SupportAssist for Business PCs
Publisher	Dell Inc.
App Version	3.2.0.87
Category	--
Show this as a featured app in the Company Portal	Yes
Information URL	--
Privacy URL	--

Previous Create

Ready to work.

Windows apps

Add Refresh Filter Export Columns

Filters applied: Platform, App type

Name	Type	Status	Version	Assigned
Dell SupportAssist for Busi...	Windows app (Win32)	3.1.1.18	No	
Dell SupportAssist for Busi...	Windows app (Win32)	3.1.0.64	No	
Dell SupportAssist for Busi...	Windows app (Win32)	3.2.0.87	Yes	
Dell SupportAssist for Busi...	Windows app (Win32)	3.0.0.34	No	

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>

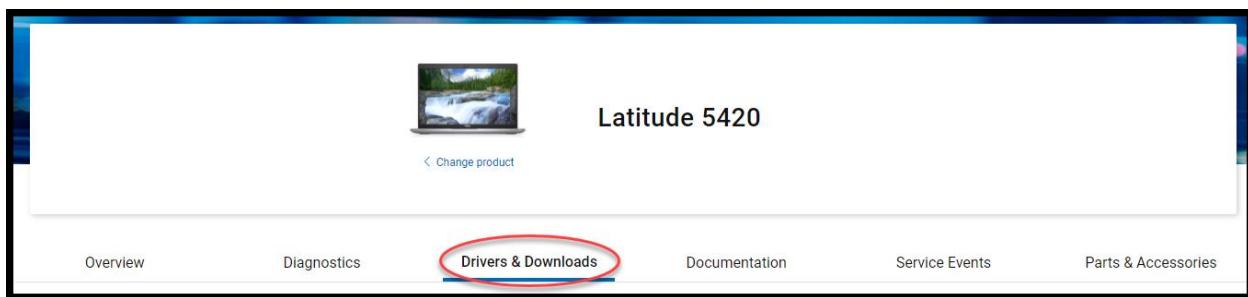
Prepare Dell Optimizer for Intune

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.

The screenshot shows the 'Manually find a specific driver for your Latitude 5320' interface. In the 'Keyword' search bar, 'optimizer' is typed and highlighted with a red box. The 'Operating system' dropdown is set to 'Windows 10, 64-bit'. Below the search bar, there are 'Download Type' and 'Category' filters, both set to 'All'. A message at the top states: 'This is a comprehensive list of all available downloads for your Latitude 5320. Some downloads may already exist on your device. To let Dell automatically find available updates for you, select Check for Updates.' Below this, two items are listed: 'Dell Power Manager Service' (CRITICAL, Systems Management, 03 Apr 2023) and 'Dell Optimizer Application' (RECOMMENDED, Application, 16 Mar 2023). The 'Dell Optimizer Application' row is also highlighted with a red box.

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

The screenshot shows a Windows File Explorer window with the path 'This PC > OS (C) > Dell > IntuneWin > Input > Dell Optimizer > 4.0.310.0'. A file named 'Dell-Optimizer_92TP7_WIN_4.0.310.0_A00' is selected and highlighted with a red box. The file details are shown in the bottom right: Date modified 03.04.2023 16:49, Type Application, Size 614.662 KB.

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.

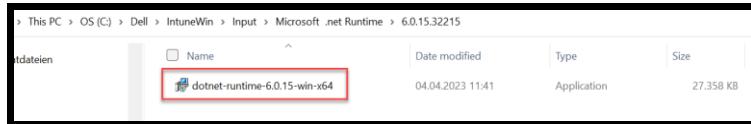
Download the latest version of Microsoft .net Runtime 6.x

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

Find ‘.Net Runtime 6.x for Windows x64’ and download the installer file.

The screenshot shows the Microsoft .NET Runtime 6.0.15 download page. It includes sections for Visual Studio support, included runtimes, and a table for Windows OS. The table for Windows OS has a row for 'Windows' with 'Arm64 | x64 | x86 | winget instructions' under 'Binaries'. A red box highlights the 'x64' link in this row.

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.

```
##### Variables
$InstallerName = Get-ChildItem .\*.exe | Select-Object -ExpandProperty Name
$ProgramPath = ".\" + $InstallerName
[Version]$ProgramVersion_target = (Get-Command $ProgramPath).FileVersionInfo.ProductVersion
[Version]$ProgramVersion_current = Get-CimInstance -ClassName Win32_Product -Filter "Name like '%Dell Optimizer%'" | Select-Object -
ExpandProperty Version

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

If ($ProgramVersion_current -ne $null)
{
    if ($ProgramVersion_target -gt $ProgramVersion_current)
    {
        #####
        #Update Software to take existing App configuration      #
        #####
        Start-Process -FilePath "$ProgramPath" -ArgumentList "/s" -Wait

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

Else
{
    #####
    #Install new Software          #
    #####
    Start-Process -FilePath "$ProgramPath" -ArgumentList "/s" -Wait
}
```

Uninstall Script

The script starts the uninstalling of application.

```
##### Variables
$ApplicationUninstallString = Get-ChildItem -Path HKLM:\SOFTWARE\WOW6432Node\Microsoft\Windows\CurrentVersion\Uninstall | Get-
ItemProperty | Where-Object {$_DisplayName -match "Dell Optimizer Service" } | Select-Object -ExpandProperty UninstallString

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

Start-Process cmd.exe -ArgumentList '/c','$ApplicationUninstallString -silent'
Start-Sleep -Seconds 90
```

Detection Script

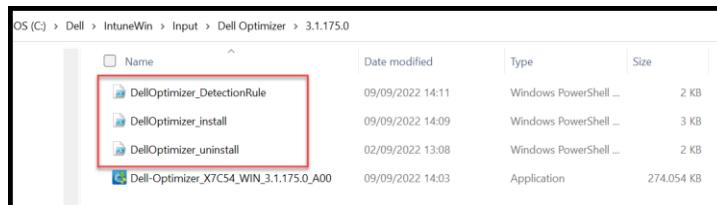
The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

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

```
#####
# Program EXE with target Version
#####
$ProgramVersion_target = '3.1.175.0' # 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

```
Please specify the source folder: C:\Dell\IntuneWin\Input\Dell Optimizer\3.1.175.0
Please specify the setup file: Dell-Optimizer_X7C54_WIN_3.1.175.0_A00.exe
Please specify the output folder: C:\Dell\IntuneWin\Output\Dell Optimizer\3.1.175.0
Do you want to specify catalog folder (Y/N)?n
```

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 DisplayName

#####
#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

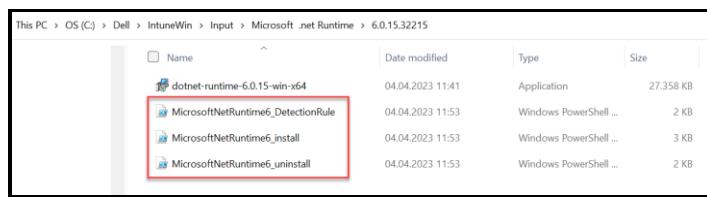
The detection script showing success of installation. It could be done as well without a script but again it is helpful for later automation of upload processes in the future.

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

```
#####
# Program with target Version
#####
$ProgramVersion_target = [6.0.15.32215] # 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 DisplayName

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

```
Please specify the source folder: C:\Dell\IntuneWin\Input\Microsoft .net Runtime\6.0.15.32215
Please specify the setup file: dotnet-runtime-6.0.15-win-x64.exe
Please specify the output folder: C:\Dell\IntuneWin\Output\Microsoft .net Runtime\6.0.15.32215
Do you want to specify catalog folder (Y/N)?
```

IntuneWin is now prepared and ready for installation by Intune.



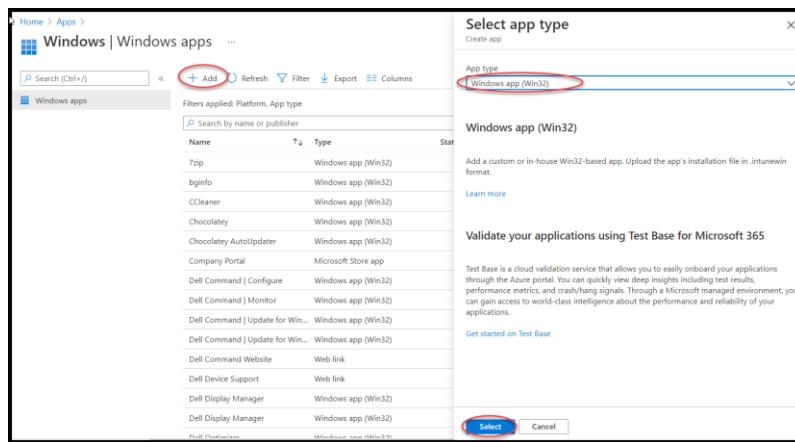
Import and Deployment settings Dell Optimizer for Intune Part for Microsoft .net Runtime (Dependency)

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'

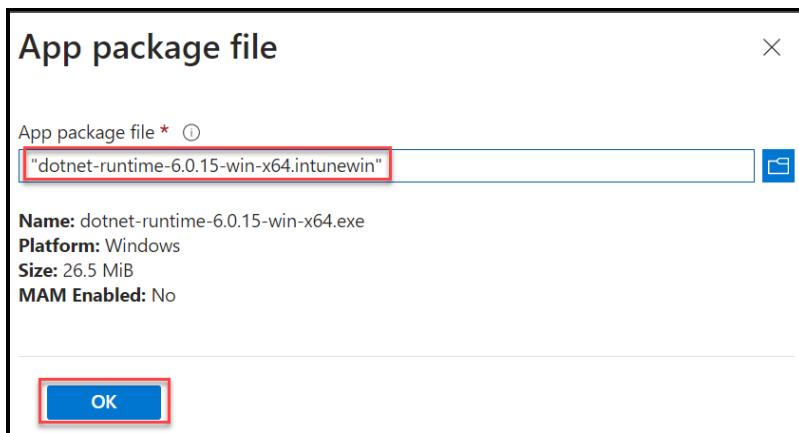
Click 'Folder'



Select 'dotnet-runtime-6.0.15-win-x64.intunewin'



Click 'OK'



Field	Value
Name	Microsoft .NET Runtime 6
Publisher	Microsoft
App Version	6.0.13.32215 Note: Use version of the Microsoft .NET
Show this as a featured app in the Company Portal	No

Click 'Next'

Home > Apps | Windows > Windows | Windows apps >

Add App

Windows app (Win32)

1 App information 2 Program 3 Requirements 4 Detection rules 5

Select file * ⓘ dotnet-runtime-6.0.15-win-x64.intunewin

Name * ⓘ Microsoft .NET Runtime 6

Description * ⓘ dotnet-runtime-6.0.15-win-x64.exe

Edit Description

Publisher * ⓘ Microsoft

App Version ⓘ 6.0.13.32215

Category ⓘ 0 selected

Show this as a featured app in the Company Portal ⓘ Yes No

Information URL ⓘ Enter a valid url

Privacy URL ⓘ Enter a valid url

Developer ⓘ

Owner ⓘ

Notes ⓘ

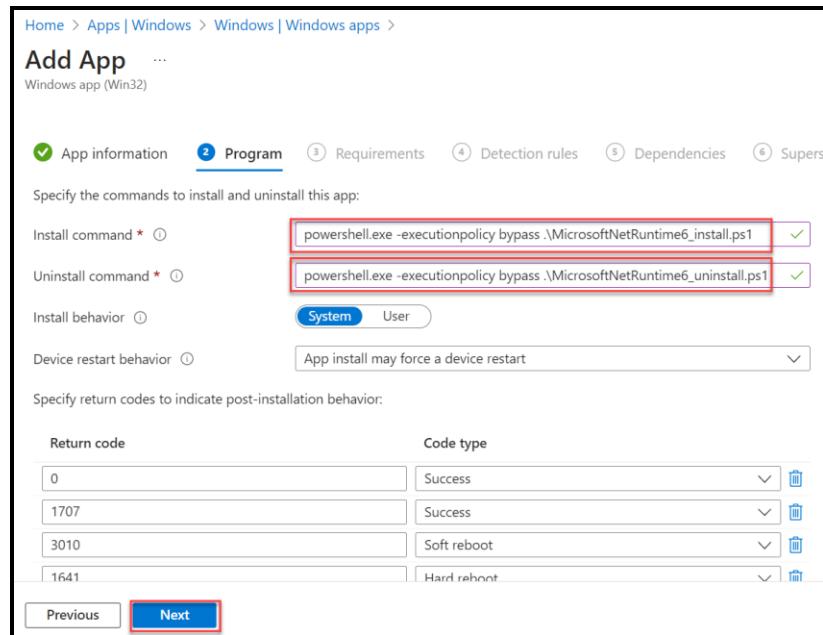
Previous Next

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'

The screenshot shows the 'Add App' interface with the 'Requirements' tab selected. The URL in the address bar is 'Home > Apps > Windows > Add App'. Below it, it says 'Windows app (Win32)'. The tabs at the top are: App information (green checkmark), Program (green checkmark), Requirements (blue circle with a dot, highlighted with a red oval), Detection rules (grey), Dependencies (grey), Supersedence (preview) (grey), Assignments (grey), and Review + create (grey). The 'Requirements' tab is active.

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'

The screenshot shows the 'Add App' interface on the 'Requirements' step. The URL is 'Home > Apps | Windows > Windows | Windows apps > Add App'. The tabs at the top are: App information (green checkmark), Program (green checkmark), Requirements (blue circle with a dot, highlighted with a red oval), Detection rules (grey), Dependencies (grey). The sub-section title is 'Specify the requirements that devices must meet before the app is installed:'. The fields filled are: 'Operating system architecture *' (64-bit) and 'Minimum operating system *' (Windows 10 2004). Other fields like 'Disk space required (MB)', 'Physical memory required (MB)', 'Minimum number of logical processors required', and 'Minimum CPU speed required (MHz)' are empty. At the bottom are 'Previous' and 'Next' buttons, with 'Next' being highlighted in blue.

Section 'Detection rules'

The screenshot shows the 'Add App' interface with the 'Detection rules' tab highlighted. Other tabs like 'App information', 'Program', 'Requirements', 'Dependencies', 'Supersedeance (preview)', 'Assignments', and 'Review + create' are also visible.

Field	Value
Rules format	Use a custom detection

Click 'Folder'

The screenshot shows the 'Add App' interface under the 'Detection rules' tab. A red box highlights the 'Select a file' button next to the 'Script file' input field. Other settings shown include 'Rules format' set to 'Use a custom detection script', 'Run script as 32-bit process on 64-bit clients' set to 'No', and 'Enforce script signature check and run script silently' set to 'No'.

Select 'MicrosoftNetRuntime6_DetectionRule.ps1'

The screenshot shows a file explorer interface with the path 'Dell > IntuneWin > Input > Microsoft .net Runtime > 6.0.15.32215'. A red box highlights the file 'MicrosoftNetRuntime6_DetectionRule.ps1' in the list, which is the PowerShell script used for detection.

Click 'Next'

Home > Apps | Windows > Windows | Windows apps >

Add App

Windows app (Win32)

App information Program Requirements 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

```
ÿ»¿<#  
_author_ = Sven Riebe <sven_riebe@Dell.com>  
_twitter_ = @SvenRiebe  
_version_ = 1.0  
_Dev_Status_ = Test  
Copyright © 2022 Dell Inc. or its subsidiaries. All Rights Reserved.
```

Run script as 32-bit process on 64-bit clients ⓘ Yes No

Enforce script signature check and run script silently ⓘ Yes No

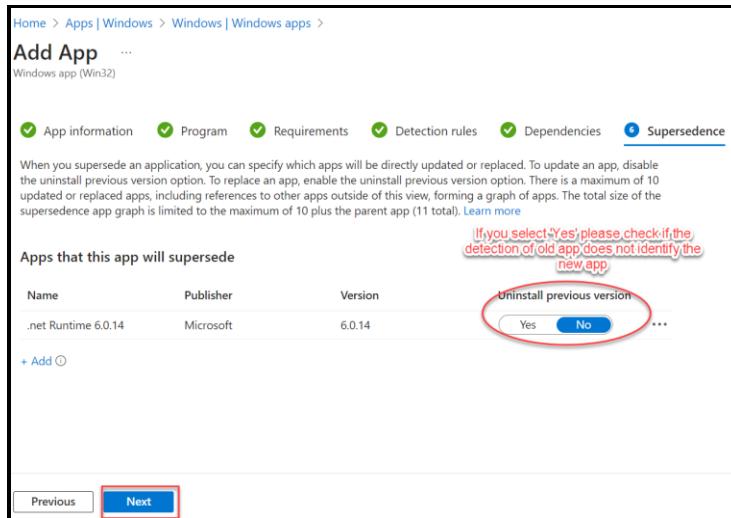
Previous Next

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

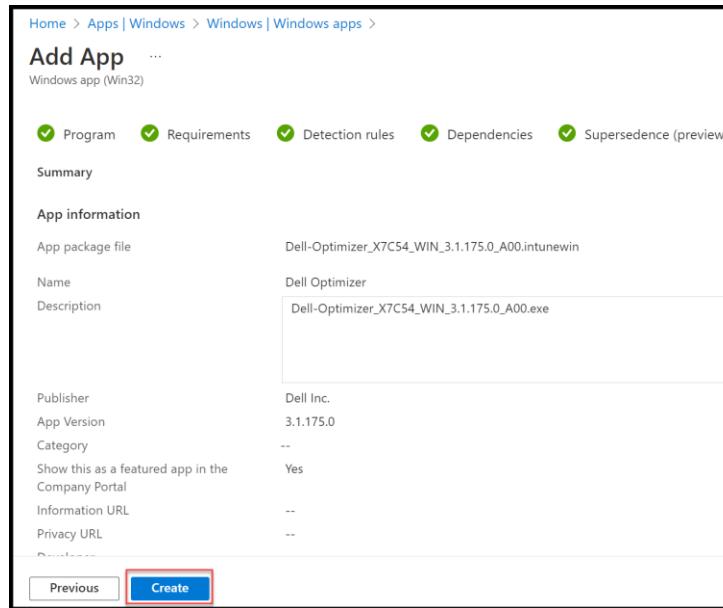
Option	Value
Required	
Available for enrolled devices	
Uninstall	

Click ‘Next’

A screenshot of the 'Add App' interface. The top navigation bar shows 'Home > Apps | Windows > Windows apps > Add App ...'. Below the title, it says 'Windows app (Win32)'. A horizontal row of tabs includes 'App information', 'Program', 'Requirements', 'Detection rules', and 'Dependencies', all with green checkmarks. The 'Create' button at the bottom right is highlighted with a red rectangle.

The app is now finished

Click 'Create'



Home > Apps | Windows > Windows | Windows apps >

Add App

Windows app (Win32)

Program Requirements Detection rules Dependencies Supersedence (preview)

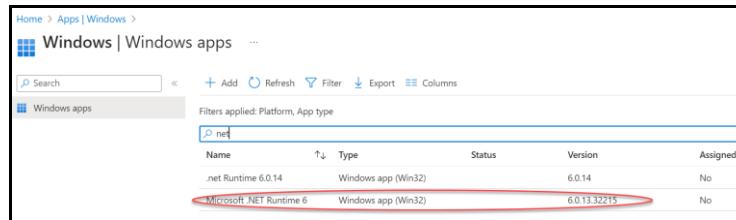
Summary

App information

App package file	Dell-Optimizer_X7C54_WIN_3.1.175.0_A00.intunewin
Name	Dell Optimizer
Description	Dell-Optimizer_X7C54_WIN_3.1.175.0_A00.exe
Publisher	Dell Inc.
App Version	3.1.175.0
Category	--
Show this as a featured app in the Company Portal	Yes
Information URL	--
Privacy URL	--

Previous Create

Ready to work.



Home > Apps | Windows >

Windows | Windows apps

Search Add Refresh Filter Export Columns

Windows apps

Filters applied: Platform, App type

Name	Type	Status	Version	Assigned
.net Runtime 6.0.14	Windows app (Win32)	6.0.14	No	
Microsoft .NET Runtime 6	Windows app (Win32)	6.0.13.32215	No	

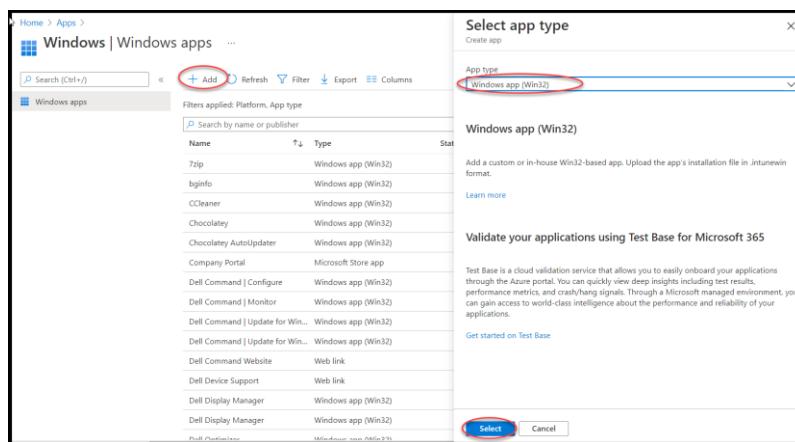
Part for Dell Optimizer

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'

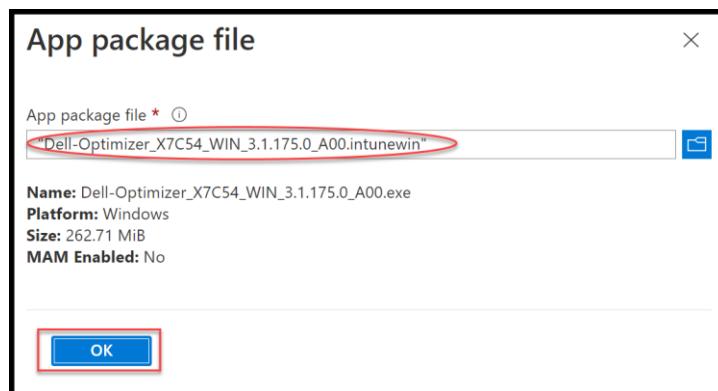
Click 'Folder'



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

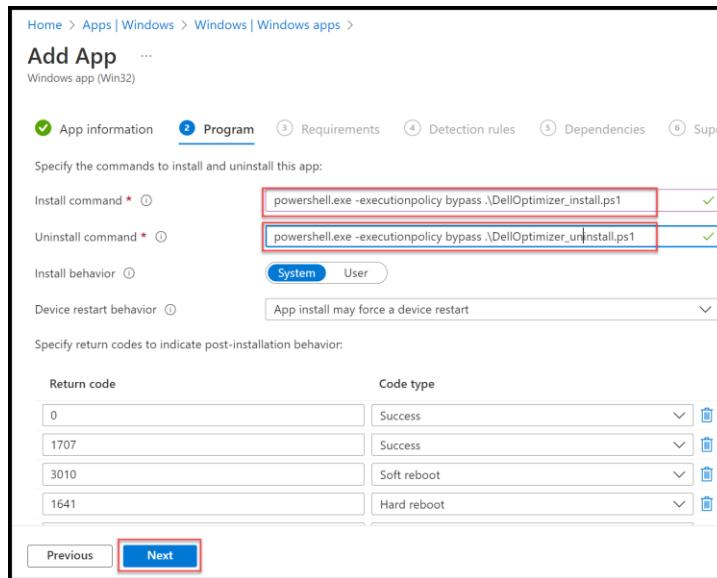
Click 'Next'

Section 'Program'



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

Click 'Next'



Home > Apps | Windows > Windows | Windows apps >

Add App ...

Windows app (Win32)

Specify the commands to install and uninstall this app:

Install command * ⓘ powershell.exe -executionpolicy bypass \\DellOptimizer_install.ps1 ✓

Uninstall command * ⓘ powershell.exe -executionpolicy bypass .\\DellOptimizer_uninstall.ps1 ✓

Install behavior ⓘ System

Device restart behavior ⓘ App install may force a device restart

Specify return codes to indicate post-installation behavior:

Return code	Code type
0	Success
1707	Success
3010	Soft reboot
1641	Hard reboot

Previous Next

Section 'Requirements'

The screenshot shows the 'Add App' interface with the 'Requirements' tab selected. The URL in the address bar is 'Home > Apps > Windows > Add App'. Below it, it says 'Windows app (Win32)'. The tabs at the top are: App information (green checkmark), Program (green checkmark), Requirements (blue circle with a dot, highlighted with a red oval), Detection rules (grey), Dependencies (grey), Superseding (grey), Assignments (grey), and Review + create (grey). The 'Requirements' tab is active.

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'

The screenshot shows the 'Add App' interface on the 'Requirements' step. The URL is 'Home > Apps | Windows > Windows | Windows apps > Add App'. The tabs at the top are: App information (green checkmark), Program (green checkmark), Requirements (blue circle with a dot, highlighted with a red oval), Detection rules (grey), and Dependencies (grey). The sub-page title is 'Specify the requirements that devices must meet before the app is installed:'. The fields filled are: 'Operating system architecture *' (64-bit) and 'Minimum operating system *' (Windows 10 2004). Other fields like 'Disk space required (MB)', 'Physical memory required (MB)', 'Minimum number of logical processors required', and 'Minimum CPU speed required (MHz)' are empty. At the bottom are 'Previous' and 'Next' buttons, with 'Next' being highlighted in blue.

Section 'Detection rules'

The screenshot shows the 'Add App' interface with the 'Detection rules' tab highlighted. Other tabs like 'App information', 'Program', 'Requirements', 'Dependencies', 'Supersedeance (preview)', 'Assignments', and 'Review + create' are visible but not selected.

Field	Value
Rules format	Use a custom detection

Click 'Folder'

The screenshot shows the 'Add App' interface under the 'Detection rules' tab. The 'Rules format' dropdown is set to 'Use a custom detection script'. Below it, there's a 'Script file' field with a 'Select a file' button. A red box highlights this 'Select a file' button.

Select 'DellOptimizer_DetectionRule.ps1'

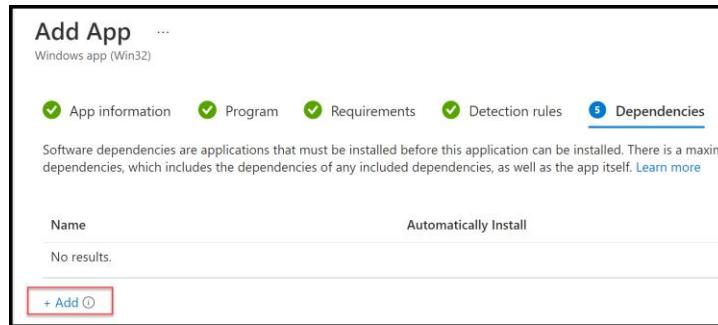
The screenshot shows a file explorer window displaying files in the path: This PC > OS (C) > Dell > IntuneWin > Input > Dell Optimizer > 3.1.175.0. The file 'DellOptimizer_DetectionRule.ps1' is highlighted with a red box.

Click 'Next'

The screenshot shows the 'Add App' interface under the 'Detection rules' tab. The 'Script file' field now contains the path 'DellOptimizer_DetectionRule.ps1'. At the bottom, the 'Next' button is highlighted with a red box.

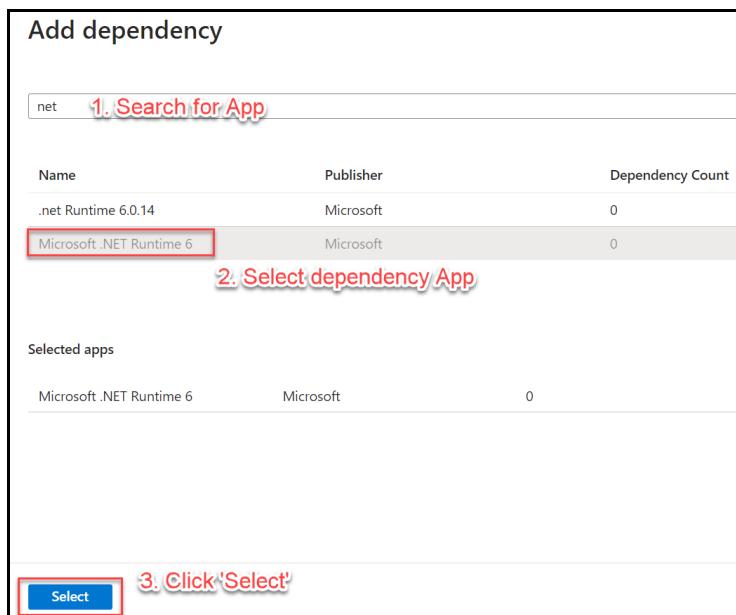
Section 'Dependencies'

Click 'Add'



Search for the new created dependency Application 'Microsoft .NET Runtime 6' and select this Application.

Click 'Select'



Field	Value
Automatically Install	Yes

Click 'Next'

Home > Apps | All apps >
Add App ...
Windows app (Win32)

App information Program Requirements Detection rules Dependencies

Software dependencies are applications that must be installed before this application can be installed. To automatically child dependency app before installing the current parent app, enable the automatically install option. To only install the parent app if the child dependency app is already detected on the device, disable the automatically install option. The maximum of 100 child dependency apps, including references to other apps outside of this view, forming a graph of a total size of the dependency app graph is limited to the maximum of 100 plus the parent app (101 total). [Learn more](#)

Name	Automatically Install
Microsoft .NET Runtime 6	<input checked="" type="button"/> Yes <input type="button"/> No

+ Add ⓘ

Previous Next

Section 'Supersedence'

Home > Apps | Windows > Windows | Windows apps >
Add App ...
Windows app (Win32)

Program Requirements Detection rules Dependencies Supersedence (preview)

When you supersede an application, you can specify which app will be updated or replaced. To update an app, disable the uninstall previous version option. To replace an app, enable the uninstall previous version option. There is a maximum of 10 updated or replaced apps, including references to other apps. For example, your app references another app. This other app references other apps, and so on. This scenario creates a graph of apps. All apps in the graph count toward the maximum value of 10. [Learn more](#)

If you select 'Yes' please check if the detection of old app does not identify the new app

Apps that this app will supersede

Name	Publisher	Version	Uninstall previous version
Dell Optimizer	Dell Inc.	2.0.753.0	<input checked="" type="button"/> Yes <input type="button"/> No

+ Add ⓘ

Previous Next

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.

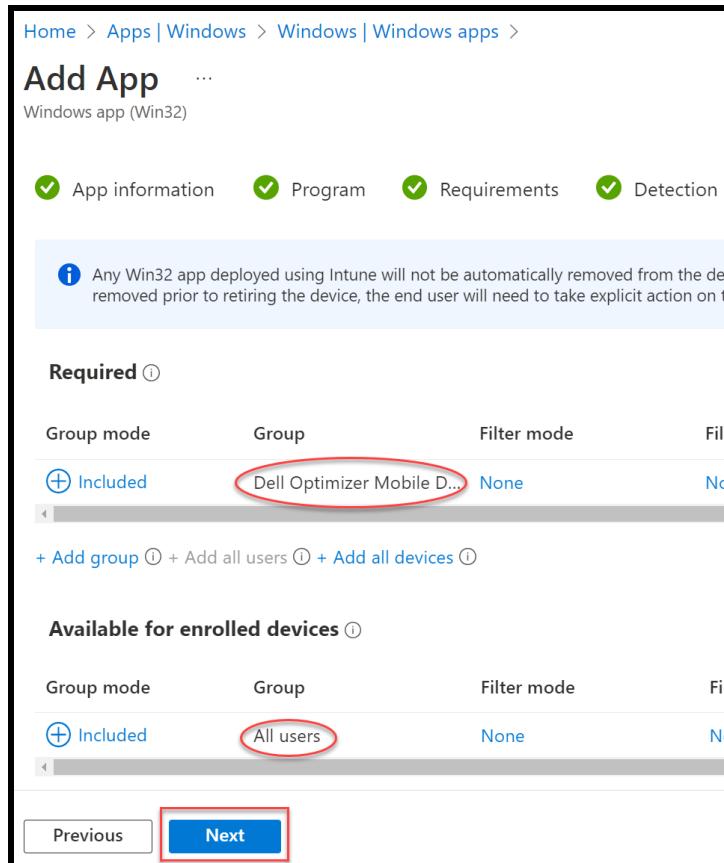
Section 'Assignments'



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'

Home > Apps | Windows > Windows | Windows apps >

Add App

Windows app (Win32)

Program Requirements Detection rules Dependencies Supersedence (preview)

Summary

App information

App package file	Dell-Optimizer_X7C54_WIN_3.1.175.0_A00.intunewin
Name	Dell Optimizer
Description	Dell-Optimizer_X7C54_WIN_3.1.175.0_A00.exe
Publisher	Dell Inc.
App Version	3.1.175.0
Category	--
Show this as a featured app in the Company Portal	Yes
Information URL	--
Privacy URL	--

Previous Create

Ready to work.

Name	Type	Status	Version	Assigned
Dell Optimizer	Windows app (Win32)		3.1.175.0	Yes
Dell Optimizer	Windows app (Win32)		2.0.753.0	No

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>