# Windows 10 IoT Enterprise LTSC 2021

Deployment Guide



#### Notes, cautions, and warnings

(i) NOTE: A NOTE indicates important information that helps you make better use of your product.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

MARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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# Contents

4
5
5
9
13
14
14
14

Chapter 3: Deploying security patches for Windows 10 IoT Enterprise LTSC 20211	6
Download Knowledge Base for Windows 10 IoT Enterprise LTSC 2021 from Microsoft Update Catalog1	6
Install the MSU or EXE package using Wyse Management Suite1	6

# Introduction

This document provides information about installing Dell Application Store and deploying Microsoft Security Patches for Windows 10 IoT Enterprise LTSC 2021.

Dell Application Store is a bundle of Edge Device software consisting of third-party applications and Dell value-added applications. This document introduces different procedures for installing Dell Application Store on the thin clients running Windows 10 IoT Enterprise LTSC 2021 operating system.

Microsoft offers important, recommended, and optional updates. The updates provide significant benefits, such as improved security and reliability. This document is intended to download applicable security patches and create and deploy a Microsoft update stand-along package (.msu package) or an executable (.exe package) using Wyse Management Suite.

#### **Topics:**

• Support matrix

### Support matrix

Operating system	Supported platforms
Windows 10 IoT Enterprise LTSC 2021	OptiPlex 3000 Thin Client

#### Table 1. Management server details

Management server	Version
Wyse Management Suite	3.6 and later versions

# 2

# **DellApplicationStore Installation Instructions**

#### **Topics:**

- Manual Installation using DellApplicationStore.exe installer file
- Silent Manual Installation Using DellApplicationStore.exe Installer File
- DellApplicationStore.exe installation procedure from Wyse Management Suite
- Installation procedure through Microsoft Endpoint Configuration Manager

# Manual Installation using DellApplicationStore.exe installer file

- 1. Log in to the device as admin and disable the Unified Write Filter.
- 2. Copy the DellApplicationStore.exe installer file to the local path, that is, C:\Users\Admin\Desktop.
- 3. Run the DellApplicationStore.exe as administrator and click **Next** to continue.

 DellApplicationStore\_22.10.0.5 - InstallShield Wizard
 ×

 Welcome to the InstallShield Wizard for DellApplicationStore\_22.10.0.5
 The InstallShield Wizard will install DellApplicationStore\_22.10.0.5 on your computer. To continue, click Next.

4. Read the Dell End User Licensing Agreement. Select I accept the terms of the license agreement and click on Next.

Dell End User License Agreement Please read the following license agreement	carefully.		
Please read the following license agreement	carefully.		
Congratulations on your new Dell purch	ase!		^
Your purchase and use of this product is applicable Terms of Sale and End User I presented below in the following order:	subject to and License Agree	l governed by ment, which a	Dell's re each
Terms of Sale Websites			
End User License Agreement			
By the act of clicking "I accept," you agr the foregoing terms and conditions. For	ee (or re-affirm the avoidance	n your agreem of doubt, to th	ent to) ne extent ~
I accept the terms of the license agreement	ent		Print
O I do not accept the terms of the license ag	greement	1	
allShield			
	< Back	Next >	Cancel
IIApplicationStore_22.10.0.5 - InstallShie	eld Wizard	1770	×
Ready to Install the Program			<b>K</b>
The wizard is ready to begin installation.		)	
Click Install to begin the installation.			

- 5. Click on Install.
  - DellAp; Read The

DellApplicationStore_22.10.0.5 - InstallShie	ld Wizard	_	×
Ready to Install the Program			
The wizard is ready to begin installation.			
Click Install to begin the installation.			
If you want to review or change any of your exit the wizard.	installation setti	ngs, click Back. Clic	k Cancel to
InstallShield	11		
	< Back	Install	Cancel

6. Once all the files are extracted, select the applications along with the default applications that you want to install. Click License Agreement(s).

Dell Application Store	×
Which application(s) do you want to install?	
AppControlCenter 🐻 1.1.0.16	
ApplicationLaunchManager 🐻 1.1.0.5	
CustomConfigSysprep	
DellOverlayOptimizer 🚺 1.0.1.53	
I confirm the above selections and accept the License Agreement(s)	
Export Configuration Install	

#### Figure 1. Dell Application Store

7. Read each End User Licensing Agreement and Click Agree All.



#### Figure 2. End User Licensing Agreement

8. Check the box to the message I Confirm the above selections and agree to the License Agreement and click Install.

Dell Application Store	×
Which application(s) do you want to install?	
AppControlCenter 🐻 1.1.0.16	1
ApplicationLaunchManager 🐻 1.1.0.5	
🗹 CustomConfigSysprep 🛛 🐻	
DellOverlayOptimizer 🚺 1.0.1.53	
I confirm the above selections and accept the License Agreement(s)	
Export Configuration	Install

9. Installation starts and the progress of installation is shown as below.

Dell Application Store		×
System Co	onfiguration in progress	
~	VMWareHonizonClient	1
~	CitrixWorkspaceApp	
~	CitrixHDXRTME	
~	AppControlCenter	
~	ApplicationLaunchManager	
~	CustomConfigSysprep	
~	DellOverlayOptimizer	
$\triangle$	WyseDeviceAgent	
stalled the	CustomConfigSysprep successfully	1

#### Figure 3. Progress of Installation

10. After the installation is complete, click **OK** on Restart the operating system message box.



11. Now click Finish and restart the device.

InstallShield Wizard Complete The InstallShield Wizard has successfully installed DellApplicationStore_22.10.0.5. Click Finish to exit the wizard.
< Back Finish Cancel

#### Figure 4. Restart Notification

12. Log in to the admin account and enable the Unified Write Filter.

### Silent Manual Installation Using DellApplicationStore.exe Installer File

- 1. Log in to the device as administrator and disable the **Unified Write Filter**.
- 2. Copy the DellApplicationStore.exe installer file to local path, that is, C:UsersAdminDesktop.
- $\textbf{3.} \ \ \mathsf{Run} \ \mathsf{the} \ \mathsf{DellApplicationStore.exe} \ \mathsf{as} \ \mathsf{administrator} \ \mathsf{and} \ \mathsf{click} \ \textbf{Next} \ \mathsf{to} \ \mathsf{continue.}$

DellApplicationStore\_22.10.0.5 - InstallShield Wizard



4. Read the Dell End User Licensing Agreement. Select I accept the terms of the license agreement and click on Next.



5. Click on Install.

X

DellApplicationStore_22.10.0.5 - InstallShield Wizard	×
Ready to Install the Program	
The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click B exit the wizard.	ack. Click Cancel to
nstallShield	
	_

6. Once all the files are extracted, select the applications along with the default applications that you want to install. Click License Agreement(s).

Dell Application Store	×
Which application(s) do you want to install?	
AppControlCenter 🔂 1.1.0.16	
ApplicationLaunchManager 🚺 1.1.0.5	
CustomConfigSysprep	
DellOverlayOptimizer 🔂 1.0.1.53	
I confirm the above selections and accept the License Agreement(s)	
Export Configuration Install	

#### Figure 5. Dell Application Store

7. Read each End User Licensing Agreement and Click Agree All.

Dell Application Store		
End User Licensing Agreement (EULA)		
VMWare Horizon Client		
Tight VNC Setup		
Amazon WorkSpaces		
Cisco JVDI / WebEx VDI Plugin		
Citrix Workspace App		
Zoom Plugin		
	Peo All De	lact All

#### Figure 6. End User Licensing Agreement

8. Check the box to the message I Confirm the above selections and agree to the License Agreement and click **Export Configuration**.

Dell Application Store		
Which application(s) do you want to install?		
AppControlCenter 🐻 1.1.0.16		
ApplicationLaunchManager 🚺 1.1.0.5		
CustomConfigSysprep		
DellOverlayOptimizer 🔂 1.0.1.53		



9. Enter the file name for PowerShell file and save the PowerShell file to the local path C:\Users\Admin\Desktop. Enter the File name as Exportconfig.ps1 and click **Save**.

• 🛧 🗖	> This PC > D	esktop		~	Ö	Search Desktop		p
Organize - Nev	v folder							0
Quick access  Desktop  Downloads  Documents  Pictures  This PC  Network	Name	*	Date modified No items ma	Type atch your search.	Size			
File name:	Exportconfig.ps	0						2
Save as type:	Powershell File							2
Hide Folders						Save	Cancel	1

#### Figure 7. Save As

10. Click **OK** on the Installer Wizard window.

Whic	th application(s) d	o you want to install?	
	✓ QuickStart	0.34.4	
	TightVNCSetup	INFO	×
	VMWareHorizo	N Exported the file successfully()	
	AmazonWorkSp	N	-
	Cisco/VDIClient	OX	

#### Figure 8. Installer Wizard Window

**11.** Click Close on the installer window and now Click **Finish**.

DellApplicationStore\_22.10.0.5 - InstallShield Wizard

InstallShield Wizard Complete The InstallShield Wizard has successfully installed DellApplicationStore_22.10.0.5. Click Finish to exit the wizard.
< Back Finish Cancel

#### Figure 9. Installation Complete

- 12. Go to the location where the exported configuration PowerShell file is saved and run the PowerShell file with admin rights.
- 13. Follow the command prompts with admin rights and browse to the DellApplicationStore.exe location.
- 14. Run the command DellApplicationstore.exe --silent.

Administrator: Command Prompt	100	×
Microsoft Windows [Version 10.0.19044.1466] (c) Microsoft Corporation. All rights reserved.		-
C:\Windows\system32>cd C:\Users\Admin\Desktop		
C:\Users\Admin\Desktop>DellApplicationStore.exesilent		

#### Figure 10. Command

- 15. Restart the device once installation is complete.
- 16. Log in to the admin account and enable the Unified Write Filter.

### DellApplicationStore.exe installation procedure from Wyse Management Suite

- 1. Register the device to Wyse Management Suite server and add to the respective add-on group.
- 2. Generate Export Configuration PowerShell file (Follow the steps from 1 to 11 under Silent Manual Installation using DellApplicationStore.exe installer file to generate).
- **3.** Copy Exportconfig.ps1 and DellApplicationStore.exe file to the Wyse Management Suite server repository under C:\Wyse Management Suite\LocalRepo\repository\thinClientApps.
- 4. Log in to the Wyse Management Suite server.
- 5. Go to Portal Administration>File Repository.

- 6. Check the File Repository and click Sync Files.
- 7. Follow the path Apps & Data>App Inventory>Thin Client and verify that the files are listed in the Thin Client.
- 8. Go to Apps & Data>App Policies >Thin Client>Add Advanced Policy.
- 9. Type DASdeployment as Policy name and follow the path **Device Group**> Install Application Task and select WES as operating system type.

(i) NOTE: Here, DASdeployment is an example for the Policy name. You can name the Policy as per your choice.

10. Click Add app in Application option and add ExportConfiguration.ps1 in the Apps dropdown list. Enter 5 mins as Install Timeout.

(i) NOTE: For deploying, ExportConfiguration.ps1 parameters are not required.

- 11. Again, Click Add app in Application option and add DellApplicationStore.exe in the Apps dropdown list. Enter --silent (double --) as install parameter and 60 mins as Install Timeout.
- 12. Check the check box Enable app dependency and WIE10 as operating system Subtype Filter.
- 13. Click Save and then click Yes to schedule a job immediately.
- 14. Go to App Policy Job and update the description.
- 15. Click Run Immediately and then click Preview.
- 16. Click Schedule.
  - **NOTE:** ExportConfiguration.ps1 file should be added first followed by DellApplicationStore.exe while creating Advanced App Policy

### Installation procedure through Microsoft Endpoint Configuration Manager

### **Client Side:**

- 1. Log in to the device as admin and disable the Unified Write Filter.
- 2. Join Thin client to the required Microsoft Endpoint Configuration Manager Domain (Set DNS if client is on another domain).
- **3.** Login as domain user and change the Domain Administrator Time zone to Microsoft Endpoint Configuration Manager Server Time zone.
- Go to Control Panel> Configuration Manager>Site >Configure Settings>Find Button where the Site CODE is displayed. Click Apply.
- 5. Select Actions tab and run the action item.
- 6. Enable the Unified Write filter.

#### () NOTE:

Run the actions items again until you get the install notification from Microsoft Endpoint Configuration Manager server.

### Server side:

Create a folder in Microsoft Endpoint Configuration Manager share path and then copy the created .ps1 file and DellIApplicationStore installer.

- 1. Launch Microsoft Endpoint Configuration Manager Server.
- 2. Click Asset & Compliance>Device Collection. Right-click and select Create Device collection and add registered thin client to the group.
- 3. Go to **Software Library>Application Management>Packages**. Right-click and create package for DellApplicationStore.exe with --silent as parameter in command line.
- 4. Right-click the created package for Dell Application Store and distribute the package by selecting the distribute point.
- 5. Go to Software Library>Operating System>Task Sequence. Right-click and create custom task sequence.
- 6. Right-click the Custom task sequence that is created and click Edit.
- 7. Click add> General> Power Shell Script and provide a valid name.

- 8. Select radio button against Enter a PowerShell script.
- 9. Click Add Script and open the .ps1 file and select it.
- 10. Select **Bypass** in Power Shell Execution dropdown button and select **Apply**.
- 11. Click add> Software>Install Package and provide a valid name.
- 12. Browse the DAS distributed Package, click  $\ensuremath{\mathsf{Apply}}$  and then select  $\ensuremath{\mathsf{OK}}$  .
- 13. Right-click the Edited Task Sequence and deploy the created device collection immediately.

# 3

# Deploying security patches for Windows 10 IoT Enterprise LTSC 2021

#### **Topics:**

- Download Knowledge Base for Windows 10 IoT Enterprise LTSC 2021 from Microsoft Update Catalog
- Install the MSU or EXE package using Wyse Management Suite

### Download Knowledge Base for Windows 10 IoT Enterprise LTSC 2021 from Microsoft Update Catalog

This section describes the steps to download Knowledge Base files from the Microsoft Update Catalog site.

- 1. Go to www.catalog.update.microsoft.com.
- In the search box, type the search terms.
   For Windows 10 IoT Enterprise LTSC 2021, type search string 21H2 + Itsb + x64
- 3. Click Search or press Enter.
- 4. Click Last Updated to sort the Knowledge Base files from newest to oldest.
- Locate and download the following Knowledge Base files based on Windows 10 LTSB.
   For example, Cumulative Updates for <Windows 10 LTSB> for x64-based systems <KB5013624>
  - (i) **NOTE:** Click the cumulative update to find more details on that update. Ensure to click the link under **More Information** to review the pre-requisites.
  - (i) NOTE: Install .NET Framework cumulative update as applicable.
  - (i) **NOTE:** When you download the latest Knowledge Base file for cumulative updates, it overrides the previous Knowledge Base files. To view the previous Knowledge Base files, click the latest Knowledge Base, and then click the **Package Details** tab.
- 6. After you download the Knowledge Base files, rename it by abbreviating the default name. For example, rename the file windows10.0-kb4346087-v3-x64\_20f490a4493ec5ac99b6a4c357dca9d86b3ee96b.msu to windows10.0-kb4346087v3-x64.msu.

### Install the MSU or EXE package using Wyse Management Suite

- Copy the renamed Knowledge Base file to the Wyse Management Suite server repository. For example, copy the downloaded file to <local-repo>\repository\thinClientApps.
- 2. Log in to Wyse Management Suite.
- 3. Click Portal Administration, and then click File Repository under Console Settings.
- 4. Select the Local Repository check box.
- 5. Click Sync Files.

Wait for the synchronization process to complete. The synchronization process copies the package from the repository to Apps and Data.

<sup>(</sup>i) NOTE: You may have to unblock the downloaded content to access the files.

- 6. To verify the successful synchronization, Click Apps and Data. The Apps and Data page is displayed.
- 7. Verify the copied package in the applications list.
- 8. Click Add Policy to add the policy to the required group.

() NOTE: If you use the .exe file that is downloaded from the Microsoft Update Catalog site, the silent parameter is /quiet/norestart. The default silent parameters are considered when you use the .msu file.

- 9. Update the required fields, and click Save.
- 10. Click  $\ensuremath{\text{Yes}}$  to deploy the policy immediately.
- **11.** In the  $\ensuremath{\textbf{App Policy}}$  job, update the description.
- 12. Click Run > Immediately.
- 13. Click **Preview** and then click **Schedule**.