# Dell Wyse ThinOS Installation and ThinOS Activation License

User 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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## Overview

Dell Wyse ThinOS operating system is designed to run on a broad array of Dell hardware platforms.

### **Document Purpose**

This document explains the following:

- 1. How to install ThinOS using a USB drive or the Wyse Management Suite automated process.
- 2. How to push a ThinOS Activation License (TAL) to a ThinOS client using Wyse Management Suite with a pro license.
- 3. How to use Wyse Management Suite with a pro license to assign and push a TAL to devices to enable PCoIP.

### **Important Information**

- ThinOS 9.x is supported on the following devices:
  - o Wyse 3040
  - Wyse 5070
  - Wyse 5470 Mobile Thin Client
  - Wyse 5470 All-in-one Thin Client
  - OptiPlex 3000 Thin Clients
  - o OptiPlex 5400 All-in-One
  - Latitude 3420 (select configurations)
- ThinOS is shipped preloaded on the above systems except Latitude 3420 and OptiPlex 5400 All-in-One.
- Using Wyse Management Suite with a pro license to deploy ThinOS to a system running Ubuntu with Dell Client Agent (DCA) enabler is supported on Latitude 3420 and OptiPlex 5400 All-in-One.
- Installation from a USB drive using the Dell OS Recovery Tool and the ThinOS ISO image is supported on OptiPlex 3000 Thin Client, Latitude 3420, and OptiPlex 5400 All-in-One.
- Installation from a USB drive using Wyse USB Firmware Tool and the ThinOS Merlin image is supported on Wyse 3040, Wyse 5070, Wyse 5470 Mobile Thin Client, and Wyse 5470 All-in-one thin client.

# **Install ThinOS**

If you have a Latitude 3420 or OptiPlex 5400 All-in-One and ThinOS is already installed, you can directly go to the ThinOS Activation License section.

You can install ThinOS using either of these methods:

- 1. Install from a USB drive using Dell OS Recovery Tool and the ThinOS ISO image. This method is supported on OptiPlex 3000 Thin Client, OptiPlex 5400 All-in-One, and Latitude 3420.
  - () NOTE: Installation of ThinOS from a USB drive using Wyse USB Firmware Tool and the ThinOS Merlin image is supported on Wyse 3040, Wyse 5070, Wyse 5470 Mobile Thin Clients, and the Wyse 5470 All-in-one thin client. For more information, see Dell Wyse USB Imaging Tool User's Guide.
- 2. Install using Wyse Management Suite with a pro license to deploy ThinOS to a system running Ubuntu with Dell Client Agent (DCA) enabler.

### **Download ThinOS ISO image**

#### About this task

OptiPlex 3000 Thin Client, Latitude 3420, and OptiPlex 5400 All-in-One devices require ISO images for imaging using a USB driver and Dell OS Recovery Tool.

To download the ISO image, do the following:

#### Steps

- 1. Go to www.dell.com/support.
- 2. In the Enter a Service Tag, Serial Number, Service Request, Model, or Keyword field, type the model number of your device. For example, OptiPlex 3000 Thin Client, Latitude 3420, or OptiPlex 5400 All-in-One.
- **3.** Select the product from the searched results to load the product page.
- 4. On the product support page, click Drivers & Downloads.
- 5. Select the Operating System as ThinOS PCOIP.
- 6. Select the Download Type as Operation Systems.
- 7. Download the latest version of the file labeled Recovery image file.

Opti	Plex 3000 Thin Client (3) This Device				
	NAME \$	SEVERITY ≑	CATEGORY ≑	RELEASE DATE	ACTION
	ThinOS 2205 (9.3.1129) Recovery Image file for OptiPlex 3000 Thin Latitude 3420	Client and RECOMMENDED	Operating System	30 May 2022	Download (
	ThinOS 9.1.3129 or later to ThinOS 2205 (9.3.1129) Image file for D 3040, 5070, 5470 and 5470 All-in-One Thin Clients, and OptiPiex 30 Client		Operating System	29 May 2022	Download
	ThinOS 9.1.4097 to ThinOS 9.1.6108 Upgrade Image file for Dell Op 3000 Thin Client	tiPlex RECOMMENDED	Operating System	07 Mar 2022	Download

#### Figure 1. Recovery image file

(i) NOTE: Since this is a ZIP file, the ISO image file has to be extracted.

### Install ThinOS from USB drive using Dell OS Recovery Tool

### Steps

- 1. Download Dell OS Recovery Tool.
- 2. Run the .exe file on the system to be used to create the USB drive. The Dell OS Recovery Tool Application installer opens.
- 3. Click INSTALL.
- 4. After the installation is complete, open Dell OS Recovery Tool.
- 5. Select SWITCH TO ADVANCED RECOVERY displayed at the bottom of the tool.

OS Recovery Tool		
Automated Recovery	Step 1: Select a computer	
Welcome, USER Having trouble with your system? Start by selecting the computer you'd like to recover.	This computer Precision 7530 Service Tag 100100100	Another computer  Service Tag/Express Service Code  Enter service tag
NOTE: You'll need a USB with 16 GB of space available. Existing content will be deleted.	15.6"	
() - 2 - 3 - 0	SWITCH TO ADVANCED RECOVERY	CANCEL NEXT

### Figure 2. Dell OS Recovery Tool

6. In Select an OS image, browse to the ISO file that you downloaded in the Download ThinOS ISO image section and click NEXT.

OS Recovery Tool		
Advanced Recovery	Select preference	
Welcome, BRUCE_PLESS. This app will help you recover and install your OS Image. Get started by selecting which device you want to create a recovery key to support.	Select an OS image Browse C:\OS_JSO_2205_9.3.1129 (1)\ThinOS_2205_9.3.1129 iso Q	Select from available OS images <ul> <li>For this computer</li> <li>For another computer</li> </ul>

Figure 3. Upload the ISO file

(i) **NOTE:** Do not choose any option under **Select from available OS images**. If either option is selected, you cannot go forward to the next step.

- 7. Select the USB drive that you want to format from the USB drive dropdown.
- 8. Check the I understand that the selected drive will be reformatted and existing data will be deleted box.
- 9. Click BURN OS.

bel				
OS Recovery Tool				
Advanced Recovery We'll walk you through the process of downloading and saving the software you'll need to recover your computer. Insert a rewriteable USB drive with 16 GB of space available.	Step 1: Select USB drive USB drive F: PNY USB 2.0 FD USB Device, USb Drive, 29GB • Partition Style MBR • I understand that the selected drive will be reformatted and existing data will be deleted. Recovery Image C:\0S_IS0_2205_9.3.1129 (1)\ThinOS_2205_9.3.1129.iso			
<b>@</b> —Ø	X SWITCH TO AUTOMATED RECOVERY	GO BACK B	URN OS	

Figure 4. Burn OS

**10.** Remove the USB drive and connect it to the system that is powered off, on which you plan to install ThinOS. After connecting the USB drive, turn on the system.

(i) NOTE: After the USB drive is removed, Dell OS Recovery Tool goes back to the screen that is displayed in Step 5.

- **11.** Press F12 at boot up until you see the Dell logo and **Preparing one-time boot menu...** displayed at the top, right corner. The boot menu opens.
- 12. In the boot menu, select the USB drive from the UEFI Boot Devices list.

One-Time Boot Settings Control the boot flow for the SupportAssist OS Recovery Tool.	Pre-Boot Tasks Change important BIOS settings on your system, configure h
NOTE: Once a system and/or admin password is set, the system will always prompt for system and/or admin password during boot.	BIOS SETUP Configure BIOS options and control how your system functions.
UEFI Boot Devices DellThinOS Merlin Non-Pxe Rule UEFI HTTPs Boot	BIOS Flash Update - Remote BIOS and Firmware Update Over-the-Air
UEFI BC711 NVMe SK hynix 256GB FJB3N453513503847 1	
UEFI PNY USB 2.0 FD 900084D662280970	
品 ONBOARD NIC (IPV4)	
品 ONBOARD NIC (IPV6)	

### Figure 5. Boot menu

(i) NOTE: If you are unable to select the USB drive, ensure that Enable USB Boot Support option is enabled in BIOS.

- **13.** Enter the BIOS password if prompted. The default password for most Dell thin clients is **Fireport**.
  - The thin client boots and a warning message with a 60-second countdown window is displayed.
  - Wait for 60 s or Click **OK** to install the ThinOS image and application packages. The thin client reboots automatically.
  - Click **Manually** to display the ThinOS image and application packages list. Select the ThinOS image and the application packages that you want to install and click **OK** to install these files. The thin client reboots automatically.
- $\ensuremath{\textbf{14}}\xspace.$  The system continues imaging and reboots automatically once complete.
  - (i) **NOTE:** If a **Login denied (ThinOS activation license is not available)** message is displayed in the ThinOS login windows, go to ThinOS Activation Licenses.
  - **NOTE:** If the message is not displayed, the system is likely to have a license embedded in BIOS. Or, the network is configured to automatically configure the Wyse Management Suite information and the device already has a TAL.
  - i NOTE: If you see the error Fatal Error: Please make sure TPM or PTT is set to ON in BIOS, turn on TPM or PTT in BIOS to continue installation.

# 3

# Use Wyse Management Suite to deploy ThinOS to an Ubuntu system with Dell Client Agent (DCA) enabler

### Prerequisites

- Ensure that the DCA enabler version 1.5.0-14 or later is installed.
- Verify if DCA enabler is installed by logging in to the Ubuntu device, and checking if the folder **/etc/dcae** exists. If yes, the DCA enabler is installed.
- Verify the DCA enabler version by opening a terminal window and running the command cat /var/log/dcae/dcae.log
- If the DCA enabler is not installed, follow these steps to manually install the DCA enabler:
  - Download the DCA Enabler driver package from the Wyse Management Suite page at www.dell.com/support.
  - Extract the package until you see the files dca-enabler\_x.x\_amd64.deb and dca-enabler-packages\_x.x\_amd64.deb
  - Install the DCA enabler files by logging into the Ubuntu device, opening a terminal session, locating the DCA enabler packages folder, and running the following commands. Edit the DCA version numbers as per your requirement.
    - sudo dpkg -i < dca-enabler-packages\_x.x\_amd64.deb <Enter>
    - sudo dpkg -i < dca-enabler\_x.x\_amd64.deb <Enter>

jason@latitude-3420:/media/jason/DELLWYSEIMG\$ ls dca-enabler\_1.5.0-14\_and64.deb dca-enabler-packages\_1.5.0-14\_and64.deb reg.json jason@latitude-3420:/media/jason/DELLWYSEIMG\$ sudo dpkg -i dca-enabler-packages\_1.5.0-14\_amd64.deb [sudo] password for jason: Selecting previously unselected package dca-enabler-packages. (Reading database ... 182074 files and directories currently installed.) Preparing to unpack dca-enabler-packages\_1.5.0-14\_amd64.deb ... Unpacking dca-enabler-packages (1.5.0-14) ... Setting up dca-enabler-packages (1.5.0-14) ... jason@latitude-3420:/media/jason/DELLWYSEIMG\$ sudo dpkg -i dca-enabler\_1.5.0-14\_amd64.deb Selecting previously unselected package dca-enabler. (Reading database ... 182094 files and directories currently installed.) Preparing to unpack dca-enabler\_1.5.0-14\_amd64.deb ... Unpacking dca-enabler [1.5.0-14] ... Setting up dca-enabler [1.5.0-14] ... Setting up dca-enabler [1.5.0-14] ... (Reading database ... 182094 files and directories currently installed.) Preparing to unpack dca-enabler\_1.5.0-14\_amd64.deb ... Unpacking dca-enabler (1.5.0-14) ... Setting up dca-enabler (1.5.0-14) ... Created symlink /etc/system/multi-user.target.wants/dcae.service → /lib/systemd/system/dcae.service. jason@latitude-3420:/media/jason/DELLWYSEIMG\$

### Figure 6. Run the commands in a Terminal session

- Ensure that the Ubuntu device is registered with the Wyse Management Suite server.
- If DHCP Option Tags/DNS SRV records have been configured to advertise the Wyse Management Suite server, the Ubuntu device automatically discovers and registers with the server.
- If not, follow these steps to manually register with the Wyse Management Suite server:
  - Log in to the Wyse Management Suite server.
  - Go to the Portal Administration tab.
  - Under Console Settings > Generic Client Registration, locate your Wyse Management Suite group name.
  - According to your Wyse Management Suite settings, click **Bootstrap** or **Bootstrap-HTTPS-no-CA-validation** to download the configuration file.
  - Rename the file to **reg.json**.
    - If you do not have access to the Wyse Management Suite console, you can create the file using this syntax. Replace the highlighted content with values for your environment:

{"ccm":

```
{"ccmserver":"fqdn.of.your.wms.server","ccmport":"443","usessl":"true","mqttserver":"fq
dn.of.your.mqtt.server","mqttport":"1883","grouptoken":"your.WMS.GroupToken" ,"isCaV
alidationOn":"false/true"} }}
```

• Keep the syntax in lower case except as needed for the Wyse Management Suite group token.

- There is no hyphen between the group prefix and group key.
- $\circ$   $\;$  Log in to the Ubuntu device.
- Copy the **reg.json** file to the Ubuntu device.
- Open a terminal session and go to the directory where the **reg.json** file is located.
- Run the following command:
  - sudo cp reg.json /etc/dcae/config <Enter>
- Restart the DCA enabler, open a terminal session, and enter the following command:
  - sudo systemctl restart dcae.service <Enter>
- The device attempts to register with the Wyse Management Suite server and after registration, the device is listed as
   Type = Generic Client

### Steps

- **1.** Log in to the Ubuntu device.
- 2. Verify the DCA enabler using the steps mentioned above.
- **3.** Verify that the Ubuntu device is registered with the Wyse Management Suite server using the steps that are mentioned above.
- **4.** Verify the following on the Wyse Management Suite server:
  - Wyse Management Suite server is using a Pro license.
  - Wyse Management Suite server is version 3.7 or later.
  - Wyse Management Suite server has ThinOS Activation Licenses.
  - i NOTE: To check if the server has ThinOS Activation Licenses, go to WMS console > Portal Administration > Account > Subscription
- 5. Upload the ThinOS Conversion installer file to Wyse Management Suite.
  - To download the installer file, follow these steps:
  - a. Go to www.dell.com/support
  - b. In the Enter a Service Tag, Serial Number, Service Request, Model, or Keyword field, type the model number of your device. For example, Latitude 3420, or OptiPlex 5400 All-in-One.
  - c. Select the product from the searched results to load the product page.
  - d. On the product support page, click **Drivers & Downloads**.
  - e. Select the Operating System as ThinOS PCOIP.
  - f. Select the Download Type as Operation Systems.
  - g. Download the driver package labeled Conversion. The package may be a ZIP file.
  - h. Extract the package to get the ThinOS Conversion Installer file (DTOS\_Ubuntu\_Installer\_x.x).
  - i. Upload the installer to WMS Server > Apps & Data > App Inventory > Generic Client .

### **6.** Upload the ThinOS image file.

- To download the ThinOS image file, follow these steps:
- a. Go to www.dell.com/support
- b. In the Enter a Service Tag, Serial Number, Service Request, Model, or Keyword field, type the model number of your device. For example, Latitude 3420, or OptiPlex 5400 All-in-One.
- c. Select the product from the searched results to load the product page.
- d. On the product support page, click **Drivers & Downloads**.
- e. Select the Operating System as ThinOS PCOIP.
- f. Select the Download Type as Operation Systems.
- g. Download the driver package labeled Conversion. The package may be a ZIP file.
- h. Extract the package to get the ThinOS Image file (ThinOS\_YYMM\_x.x).
- i. Upload the ThinOS image to WMS Server >Apps & Data > OS Image Repository > ThinOS 9.x > Add Firmware file.
- 7. Create the conversion app policy by following these steps:
  - a. Go to WMS Server > Apps & Data > App Policies > Generic Client > Add Advanced Policy
  - $\textbf{b.} \ \ \text{Populate the following fields:}$ 
    - Policy Name
    - Group
    - Task as Install Application
    - OS Type as Generic Client
    - Application:
      - Click Add app and select the ThinOS Conversion Installer file (DTOS\_Ubuntu\_Installer\_x.x).

- Click Add app again and select the ThinOS image file (ThinOS\_YYMM\_x.x).
- Platform Filter as the platform you want to convert.
   NOTE: For ThinOS 2205, select all four Dell Latitude 3420 items in the dropdown list.
- Apply Policy Automatically as Do not apply automatically.
- c. Click Save.
- ${\bf d}.$  Choose whether to schedule the job now or later.
- 8. Once the Wyse Management Suite job begins, check the following client-side folders for activity:
  - **/etc/dcae/upgrade**: This folder is created once the client receives the Wyse Management Suite job. It is automatically deleted after installation.
  - **/usr/dtos**: This folder is created after the client receives the ThinOS Conversion Installer (DTOS\_Ubuntu\_Installer\_x.x) file.
- 9. Once the ThinOS image is successfully installed, the client reboots automatically.
- 10. The conversion process is complete.
  - (i) NOTE: If ThinOS boots with a blue background and exhibits poor performance, reboot the device again.
  - (i) NOTE: A warning message Login is denied (ThinOS activation license is not available) may be displayed after connecting to a network.
  - **NOTE:** After conversion, register the converted device with Wyse Management Suite. If required, the newly converted device downloads a ThinOS Activation License. If the conversion fails and the client does not boot, follow the steps in Install ThinOS from USB drive using Dell OS Recovery Tool

# **ThinOS Activation Licenses**

A ThinOS Activation Licenses (TAL) is a license that is deployed with Wyse Management Suite (WMS) to clients running ThinOS that did not ship with a ThinOS license embedded in the BIOS.

### When is a ThinOS Activation License required?

ThinOS Activation Licenses are required when:

- Running ThinOS on a Latitude 3420 or OptiPlex 5400 All-in-One. These platforms do not support installation of a ThinOS license in the BIOS and require a TAL.
- Running ThinOS 2205 (or later) on Wyse 3040, Wyse 5070, Wyse 5470 AIO, or Wyse 5470 MTC that did not ship with ThinOS installed. This includes devices that were shipped with no operating system or shipped with an alternative operating system like ThinLinux or Windows 10 IoT and then later converted to ThinOS using the Wyse USB firmware tool. Since these clients did not ship with ThinOS, the ThinOS license is not embedded in the BIOS and a TAL is required.
- Using a system that shipped with ThinOS 8.x without PCoIP enabled and now requires a PCoIP connection to be enabled.

### Requirements for pushing a ThinOS Activation License to Wyse Management Suite

ThinOS Activation Licenses (TAL) can be deployed to ThinOS devices using Wyse Management Suite with a pro license version 3.7 or later. The Wyse Management Suite server can be a cloud or on prem server. Wyse Management Suite Standard does not support pushing a TAL.

### Install a ThinOS Activation License on an unlicensed device from Wyse Management Suite with a pro license

(i) **NOTE:** Ensure that the ThinOS Activation License exists in the Wyse Management Suite server. To check the license details, go to **Portal Administration** > **Subscription** in the Wyse Management Suite console.

- 1. On the thin client, go to System Settings > Central Configuration.
- 2. Enter the Wyse Management Suite server information and click Validate Key.
- 3. Click OK.



Figure 7. Validate Key

The TAL is installed on the ThinOS client.

4. Reboot the thin client.

The activation warning message disappears.

# Install ThinOS Activation License to enable PCoIP support

### Prerequisites

• If you have a device that shipped with ThinOS 8.x without PCoIP and was upgraded to ThinOS 9.x, the device requires TAL before allowing PCoIP connections. Wyse 3040, Wyse 5070, Wyse 5470 AIO, and Wyse 5470 MTC are devices that shipped with ThinOS 8.x and can be upgraded to ThinOS 9.x.

### Steps

(i) NOTE: All devices that ship with ThinOS 9.x or later already have the PCoIP enablement license, so do not need a TAL.

- 1. Log in to the Wyse Management Suite with a pro license server that contains the ThinOS activation licenses.
- 2. Use an existing device group or create a new device group.
- 3. In the device group dropdown, edit the **ThinOS 9.x** policy.
- 4. In the Advanced tab, select WDA Settings.
- 5. Click the Enable PCoIP Activation License slider switch to enable the PCoIP activation license.



### Figure 8. Enable the PCoIP activation license

- 6. Click Save & Publish
- 7. Move the ThinOS device to the device group, and the TAL is automatically deployed to the device.

### Export ThinOS Activation License from Wyse Management Suite cloud to on premises server

### Prerequisites

To use Wyse Management Suite with a pro license on premises, you must export some or all ThinOS Activation Licenses to the Wyse Management Suite on premises server.

### Steps

- 1. Log in to Wyse Management Suite with a pro license on premises server.
- 2. In the Wyse Management Suite console, go to Portal Administration.
- **3.** Go to **Account** > **Subscription**.
- 4. Enter the username and password for the Wyse Management Suite cloud.
- 5. In the Import License tab, select a Data center, and Number of ThinOS Activation Seats to import.
- 6. Click Import.

Dashboard Grou	ps & Configs	Devices	Apps &	Data	Rules	Jobs	Events	Users	Portal Administra
Portal Administrat	ion — Your Su	Ibscription							
Console Settings	Server Infor	mation:							
Active Directory (AD)	Version: WM	AS 3.7 458							
Alert Classification	WMS On-Pr	emise Identifier:	DEM02-V	VMS.BPLAE	LOCAL@C	0234D56-D4	52-2ECC-B1AA	-2E5205DC42	280
Other Settings	luna est line								
WMS Discovery	Import Lice								
Dell Hybrid Client	Enter licens	e data 😵							
Thin Clients	Username								
Teradici	Password								
Generic Client Registration	Data cent	er		United St	1.000	~			
Two-Factor	Number o	f TC seats	0		÷				
Authentication		f Edge Gateway & d PC seats	0		*				
Reports	Number o seats	f Wyse Software T	hin Client		-				
Multi-Tenant	52. 12				*				
ccount	Number o	f Hybrid Client sea	ts 🕜		*				
Custom Branding	Number o	f ThinOS Activation	n seats	1	-				
Subscription					Impo	rt			
System					1000	27 - 3			

### Figure 9. Portal Administration tab in Wyse Management Suite

The number of Manageable devices under Registered ThinOS Activation devices increases.

# 5

# Troubleshooting

- PCoIP allocation missing: If your device can connect to VDI sessions with Blast or RDP, but cannot make PCoIP connections, then you may be missing a PCoIP entitlement license. This applies to Wyse 3040, Wyse 5070, Wyse 5470 MTC, or Wyse 5470 AlO that was shipped with ThinOS OS 8.x and is now running ThinOS 9.x. To enable PCoIP, see Install ThinOS Activation License to enable PCoIP support
- Virtual computing disabled: If your ThinOS client boots and displays Login is denied (ThinOS activation license is not available.), then the device requires a ThinOS activation License. See ThinOS Activation Licenses for more information.

# **Resources and support**

### Accessing documents using the product search

#### 1. Go to www.dell.com/support.

- 2. In the Enter a Service Tag, Serial Number, Service Request, Model, or Keyword search box, type the product name. For example, OptiPlex 3000 Thin Client. A list of matching products is displayed.
- 3. Select your product.
- 4. Click Documentation.

### Accessing documents using product selector

You can also access documents by selecting your product.

- 1. Go to www.dell.com/support.
- 2. Click Browse all products.
- 3. Click Computers.
- 4. Click Thin Clients.
- 5. Click OptiPlex Thin Client.
- 6. Click OptiPlex 3000 Thin Client.
- 7. Click Select this Product.
- 8. Click Documentation.



# **Contacting Dell**

### Prerequisites

**NOTE:** If you do not have an active internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

### About this task

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell sales, technical support, or customer service issues:

#### Steps

- 1. Go to www.dell.com/support.
- 2. Select your support category.
- 3. Verify your country or region in the Choose a Country/Region drop-down list at the bottom of the page.
- 4. Select the appropriate service or support link based on your need.