

Deploying Windows 10 IoT and Windows Embedded Standard Security Patches

Deployment Guide



Notes, cautions, and warnings

 | **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.

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

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Introduction

Dell has stopped releasing security packages for the End of Marketing Life (EoML) thin clients running the following operating systems:

- Windows 10 IoT Enterprise LTSP version 1607
- Windows 10 IoT Enterprise LTSP version 1507
- Windows Embedded Standard 7
- Windows Embedded Standard 7P

You must directly download the security patches from www.catalog.update.microsoft.com.

For more information about how to download KBs from Microsoft Update Catalog, see [Download KBs for Windows Embedded Standard from Microsoft Update Catalog](#) and [Download KBs for Windows 10 IoT Enterprise from Microsoft Update Catalog](#).

This guide provides information about creating and deploying a Microsoft update stand-alone package (.msu package) or an executable file (.exe package) by using any of the following management software:

- Wyse Management Suite version 1.2 and later
- Wyse Device Manager (WDM) version 5.7.2 and later

NOTE: For information about security patches for thin clients that are active and not End of Marketing Life (EoML), such as Wyse 5070 thin client, see the respective hardware manuals pages at www.dell.com/support.

Support matrix

Table 1. End-of-Marketing-Life (EoML) platforms

Operating system	Supported platforms
Windows Embedded Standard 7	<ul style="list-style-type: none"> • Wyse 3030 thin client—3290 • Wyse 5010 thin client—D90D7 • Wyse 5020 thin client—D90Q7 • Wyse 7010 thin client—Z90D7 • Wyse 7010 Extended Chassis thin client—Z90DE7 • Wyse 7020 thin client—Z90Q7
Windows Embedded Standard 7P	<ul style="list-style-type: none"> • D90D7P • Z90D7P • Wyse 5020 thin client—D90Q7P • Wyse 5060 thin client • Wyse 7020 thin client—Z90Q7P • Wyse 7020 accelerated graphics thin client—Z90QQ7P • Latitude 3460 mobile thin client • Latitude E7270 mobile thin client
Windows 10 IoT Enterprise LTSP build 1507	<ul style="list-style-type: none"> • Wyse 5020 thin client • Wyse 7020 thin client—Z90Q10

Operating system	Supported platforms
	<ul style="list-style-type: none"> • Wyse 7020 accelerated graphics thin client—Z90QQ10
Windows 10 IoT Enterprise LTSB build 1607	<ul style="list-style-type: none"> • Latitude 3480 mobile thin client • Latitude 5280 mobile thin client • Wyse 5060 thin client

Table 2. Management server details

Management server	Version
Wyse Device Manager	5.7.2 and later versions
Wyse Management Suite	1.2 and later versions

Security patches for Windows 10 IoT Enterprise

Download KBs for Windows 10 IoT from Microsoft Update Catalog

This section describes the steps to download KBs from the Microsoft Update Catalog site.

- 1 Go to www.catalog.update.microsoft.com.
- 2 In the search box, type the search terms. For example, Windows 10 1507 or Windows 10 1607.
- 3 Click **Search** or press Enter.
- 4 Click **Last Updated** to sort the KBs from newest to oldest.
- 5 Locate and download the following KBs based on your build number (1507 or 1607).
 - Update for Windows 10 for x64-based systems
 - Security Updates for Adobe flash player for Windows 10 for x64-based systems
 - Cumulative Updates for Windows 10 for x64-based systems

NOTE:

- Ensure that you review the prerequisites for the cumulative updates at support.microsoft.com.
- When you download the latest KB file for cumulative updates, the previous KBs are replaced. To view the previous KBs related to cumulative updates, click the latest KB for cumulative updates, and then click the **Package Details** tab.

- 6 After you download the KB files, rename the files by removing the extra characters from the MSU file. For example, rename the file windows10.0-kb4346087-v3-x86_20f490a4493ec5ac99b6a4c357dca9d86b3ee96b.msu to windows10.0-kb4346087-v3-x86.msu.

NOTE: You must unblock the downloaded content to access the files.

Install the MSU or EXE package using Wyse Device Manager

You can deploy the **.msu** or **.exe** package using Wyse Device Manager (WDM).

Create a package

- 1 Copy the renamed file to <drive C>\WDM Packages.
- 2 Log in to the Wyse Device Manager web console.
- 3 Go to **Applications > Other packages**, and download the **Package Register Utility** file.
The **WDM Package Registration Utility** window is displayed.
- 4 Select the EXE category.
- 5 Browse and select the file that needs to be deployed.
- 6 From the **Select Operating System** drop-down list, select the target operating system.

NOTE: If you have downloaded the **.exe** file from the Microsoft Update Catalog site, enter `/quiet /norestart` in the **Command Parameters** field. The default parameters are added when you use the **.msu** file.

- 7 Enter the WDM server address and credentials.
- 8 Click **Upload**.

- 9 After the upload is complete, close the **WDM Package Registration Utility** window.
- 10 Launch Wyse Device Manager again, and login using valid credentials.
- 11 Go to **Applications > Other packages**, and verify the registered KB in the list.

Deploy a package

- 1 Log in to the Wyse Device Manager web console.
- 2 Go to **Devices**, and select the devices to which the KB must be updated.
- 3 Click **Update**.
- 4 Click **Save** to schedule the deployment of KBs.
- 5 After the package push is complete, go to **Updates** and click the scheduled job to check the deployment status.
- 6 On the client side, click **Update Now** after the job is successfully scheduled from the Wyse Device Manager server.

NOTE: If the **Update Now** window is not displayed, restart the **HAgent** service from the administrator mode.

The directory **C:\Temp** is not deleted. To delete the directory, edit the RSP script manually with the delete command. For example, **DT C:\Temp**.

NOTE: The lock screen is disabled when you deploy the package using WDM.

Install the MSU or EXE package using Wyse Management Suite

You can install the add-on using Wyse Management Suite.

- 1 Copy the downloaded file (raw installer) to the Wyse Management Suite server repository.
For example, copy the downloaded file to **<drive C>\Share\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**.
- 6 Click **Apps and Data**.
The **Apps and Data** page is displayed.
- 7 Verify the copied package in the applications list.
- 8 To create a group in the Wyse Management Suite server, click **Groups & Configs**.
The **Groups & Configs** page is displayed.
- 9 Click the **Plus sign (+)** button and enter the required details to register your client in the same group.
- 10 Click **Apps and Data**.
The **Apps and Data** page is displayed.
- 11 Click **Thin Clients** under **App Policies**.
- 12 Click **Add Policy** to add the policy to the required group.
NOTE: If you use the **.exe** file 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.
- 13 Update the required fields, and click **Save**.
- 14 Click **Yes** to deploy the policy immediately.
- 15 In the **App Policy** job, update the description.
- 16 Click **Run > Immediately**.

- 17 Click **Preview** and then click **Schedule**.

The lock screen is enabled when you push the package from Wyse Management Suite.

For more information, see the *Dell Wyse Management Suite Administrator's Guide* at support.dell.com.

Install the OSComponentCleanup add-on using Wyse Device Manager

Follow these steps to install the **OSComponentCleanup** add-on using Wyse Device Manager (WDM):

- 1 Go to support.dell.com.

- 2 Click **Product Support**, enter the `Service Tag` of your thin client, and then click **Submit**.

NOTE: If you do not have **Service Tag**, manually browse for your thin client model.

- 3 Click **Drivers and Downloads**.

- 4 From the **Operating system** drop-down menu, select the appropriate operating system.

- 5 Scroll down the page and download the respective .msi file.

- 6 Launch Wyse Device Manager, and login using valid credentials.

- 7 Click **Applications** in the **Dell Wyse Device Manager** dashboard page.

The options **Images**, **Other Packages**, **Agent Update**, **Device Configuration**, and **PCoIP Device Configuration** are displayed.

- 8 Select **Other Packages**.

- 9 Click **Create Package Plus (+)**.

The application prompts to download the Package Register utility.

- 10 Click **Allow**.

The **Create Package** window is displayed.

- 11 Download the `PkgRegister.exe` file on your local repository.

- 12 Navigate to the folder, and run the **Package Register** utility file.

The **WDM Package Registration Utility** window is displayed.

- 13 Enter WDM server address and user credentials in the respective fields.

- 14 Select **EXE** to register, and click **Browse**.

The **WDM Package Uploader** window is displayed with the progress status bar.

- 15 Click **Open**.

The list of selected packages is displayed.

- 16 Select the appropriate operating system package.

- 17 Click **Upload**.

The status is displayed as **Success** and the package is displayed under **Other Packages**.

- 18 Go to **Devices** and select the target client.

- 19 Click **Update**.

- 20 Go to **Select Package > Other Package**, and select the add-on package.

- 21 Click **Save**.

A pop-up is displayed on the target device.

- 22 Click **Update Now** on the target device.

NOTE: The **Temp** folder is created in the **C** drive.

Install the OSComponentCleanup add-on using Wyse Management Suite

Follow these steps to install the **OSComponentCleanup** add-on using Wyse Management Suite:

- 1 Go to support.dell.com.
- 2 Click **Product Support**, enter the *Service Tag* of your thin client, and then click **Submit**.
NOTE: If you do not have **Service Tag**, manually browse for your thin client model.
- 3 Click **Drivers and Downloads**.
- 4 From the **Operating system** drop-down menu, select the appropriate operating system.
- 5 Scroll down the page and download the respective **.msi** file.
- 6 Copy the downloaded **.msi** file to the Wyse Management Suite server repository.
For example, copy the downloaded file to `C:\WMS\LocalRepo\repository\thinClientApps`.
- 7 Log in to Wyse Management Suite.
- 8 Click **Portal Administration**, and then click **File Repository** under **Console Settings**.
- 9 Select the **Local Repository** check box.
- 10 Click **Sync Files**.
Wait for the synchronization process to complete. The synchronization process copies the package from the repository to **Apps and Data**.
- 11 Click **Apps and Data**.
The **Apps and Data** page is displayed.
- 12 Verify the copied package in the applications list.
- 13 To create a group in the Wyse Management Suite server, click **Groups & Configs**.
The **Groups & Configs** page is displayed.
- 14 Click the **Plus sign (+)** button and enter the required details to register your client in the same group.
- 15 Click **Apps and Data**.
The **Apps and Data** page is displayed.
- 16 Click **Thin Clients** under **App Policies**.
- 17 Click **Add Policy** to add the policy to the required group.
NOTE: Specify the install parameter as `/qn`.
- 18 Update the required fields, and then click **Save**.
An **Alert** window is displayed.
- 19 Click **Yes**.

NOTE: The lock screen is displayed during the package installation process on all the thin clients.

Important notes

- **OSComponentCleanup.msi** add-on:
 - The **OSComponentCleanup** add-on increases free space by optimizing the disk space on thin clients with 32 GB or a higher disk configuration.
 - When you install the **OSComponentCleanup** add-on for the first time, it may take 1-3 hours to finish the component clean-up. However, it may take 30-60 minutes to complete the component clean-up process when you again install the add-on.
 - You must schedule the **OSComponentCleanup** activity as a maintenance task to clear all the overridden operating system components that are accumulated during the installation of Microsoft security updates.
 - The silent installation parameter is `/qn`.

NOTE: You can download the **OSComponentCleanup.msi** add-on from support.dell.com.

- **DotNetCompilation_WIE10** add-on:

- This **DotNetCompilation_WIE10** add-on is required to compile DotNet KB files and delete the software distribution downloaded folder.
- The silent installation parameter is `--silent`.

 **NOTE:** You can download the **DotNetCompilation_WIE10** add-on from support.dell.com.

Silent installation parameters

Table 3. Silent installation parameters

Add-on	Parameter
DotNetCompilation_WIE10.exe	<code>--silent</code>
OSComponentCleanup.msi	<code>/qn</code>
QFE's in .exe format downloaded from Microsoft	<code>/quiet /norestart</code>

Security patches for Windows Embedded Standard 7 and Windows Embedded Standard 7P

Download KBs for Windows Embedded Standard from Microsoft Update Catalog

This section describes the steps to download KBs from the Microsoft Update Catalog site.

- 1 Go to www.catalog.update.microsoft.com.
- 2 In the search box, type the search terms. For example, Windows Embedded Standard 7 or Windows Embedded Standard 7P.
- 3 Click **Search** or press Enter.
- 4 Click **Last Updated** to sort the KBs from newest to oldest.
- 5 Locate and download the following KBs for x86-based systems running either Windows Embedded Standard 7 or Windows Embedded Standard 7P:
 - Update for Windows Embedded Standard
 - Security Only Quality Update for Windows Embedded Standard
 - Security Monthly Quality Rollup for Windows Embedded Standard
 - Cumulative Updates for Internet Explorer 11
 - Security for Windows Embedded Standard

NOTE:

- Ensure that you review the prerequisites for the cumulative updates at support.microsoft.com.
- When you download the latest KB file for cumulative updates, the previous KBs are replaced. To view the previous KBs related to cumulative updates, click the latest KB for cumulative updates, and then click the **Package Details** tab.

- 6 After you download the KB files, rename the files by removing the extra characters from the **.msu** file. For example, rename the file windows10.0-kb4346087-v3-x86_20f490a4493ec5ac99b6a4c357dca9d86b3ee96b.msu to windows10.0-kb4346087-v3-x86.msu.

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- 2 Log in to the Wyse Device Manager web console.
- 3 Go to **Applications > Other packages**, and download the **Package Register Utility** file. The **WDM Package Registration Utility** window is displayed.
- 4 Select the EXE category.
- 5 Browse and select the file that needs to be deployed.

6 From the **Select Operating System** drop-down list, select the target operating system.

NOTE: If you have downloaded the .exe file from the Microsoft Update Catalog site, enter `/quiet /norestart` in the **Command Parameters** field. The default parameters are added when you use the .msu file.

7 Enter the WDM server address and credentials.

8 Click **Upload**.

9 After the upload is complete, close the **WDM Package Registration Utility** window.

10 Launch Wyse Device Manager again, and login using valid credentials.

11 Go to **Applications > Other packages**, and verify the registered KB in the list.

Deploy a package

1 Log in to the Wyse Device Manager web console.

2 Go to **Devices**, and select the devices to which the KB must be updated.

3 Click **Update**.

4 Click **Save** to schedule the deployment of KBs.

5 After the package push is complete, go to **Updates** and click the scheduled job to check the deployment status.

6 On the client side, click **Update Now** after the job is successfully scheduled from the Wyse Device Manager server.

NOTE: If the **Update Now** window is not displayed, restart the **HAgent** service from the administrator mode.

The directory `C:\Temp` is not deleted. To delete the directory, edit the RSP script manually with the delete command. For example, `DT C : \Temp`.

NOTE: The lock screen is disabled when you deploy the package using WDM.

Install the MSU or EXE package using Wyse Management Suite

You can install the add-on using Wyse Management Suite.

1 Copy the downloaded file (raw installer) to the Wyse Management Suite server repository.

For example, copy the downloaded file to `<drive C>\Share\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**.

6 Click **Apps and Data**.

The **Apps and Data** page is displayed.

7 Verify the copied package in the applications list.

8 To create a group in the Wyse Management Suite server, click **Groups & Configs**.

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9 Click the **Plus sign (+)** button and enter the required details to register your client in the same group.

10 Click **Apps and Data**.

The **Apps and Data** page is displayed.

11 Click **Thin Clients** under **App Policies**.

12 Click **Add Policy** to add the policy to the required group.

NOTE: If you use the `.exe` file 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.

- 13 Update the required fields, and click **Save**.
- 14 Click **Yes** to deploy the policy immediately.
- 15 In the **App Policy** job, update the description.
- 16 Click **Run > Immediately**.
- 17 Click **Preview** and then click **Schedule**.

The lock screen is enabled when you push the package from Wyse Management Suite.

For more information, see the *Dell Wyse Management Suite Administrator's Guide* at support.dell.com.

Silent installation parameter

If you download QFEs from Microsoft in the `.exe` format, the silent installation parameter is `/quiet /norestart`.