

# WPA2 Security Vulnerability Add-on

## Release Notes

**Release Date: 2017-12**

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## Importance

Dell recommends applying this update during your next scheduled release cycle. The update contains feature enhancements or changes that help keep your system software current and compatible with other system modules—firmware, BIOS, drivers, and software.

## Release type and definition

This release signifies WPA2 Security Vulnerability for the Windows-based thin clients. For information about the supported platforms, see [Supported platforms](#).

As with any technology, robust security research that pre-emptively identifies potential vulnerabilities is critical in providing strong protection. This issue can be resolved through simple software updates. In the Wi-Fi industry, you can expect all your Wi-Fi devices to continue to work together by deploying WPA2 add-on to all the Wi-Fi supported devices.

## Current version

**Table 1. Current version**

Sl.no	Add-ons	Driver version
1	IntelWiFiDriver.exe	18.33.9.3
2	IntelWiFiDriver_5060.exe	19.10.9.2
3	IntelWiFiDriver_E7270_3460.exe	19.10.10.2
4	IntelWiFiDriver_5280.exe	20.10.1.3
5	QualcommWiFiDriver_3480.exe	12.0.0.448

## Supported platforms

**Table 2. Windows Embedded Standard 7**

Platform name	Build	Add-on name
Wyse 3030 thin client—3290	BEB0_7064_16GB.exe	IntelWiFiDriver.exe
Wyse 5010 thin client with WES7—D90D7	BDB0_7064_16GB.exe	IntelWiFiDriver.exe
Wyse 7010 thin client with WES7—Z90D7	BZB0_7064_16GB.exe	IntelWiFiDriver.exe
Wyse 5020 thin client with WES7—D90Q7	BOB0_7064_16GB.exe	IntelWiFiDriver.exe
Wyse 7020 thin client with WES7—Z90Q7	BOB0_7064_16GB.exe	IntelWiFiDriver.exe

**Table 3. Windows Embedded Standard 7 Professional**

Platform name	Build	Add-on name
Wyse 5020 thin Client with WES7P—D90Q7P	BOB0_7065_16GB.exe, European Build	IntelWiFiDriver.exe
Wyse 7020 thin Client with WES7P—Z90Q7P	BOB0_7065_16GB.exe, European Build	IntelWiFiDriver.exe
Wyse 7020 Accelerated Graphics thin client with WES7P—Z90QQ7P	BOB0_7065_16GB.exe, European Build	IntelWiFiDriver.exe
Wyse 5020 thin client with WES7P—D90Q7P	BOB0_7066_16GB.exe, Asian Build	IntelWiFiDriver.exe

Wyse 7020 thin client with WES7P—Z90Q7P	BOB0_7066_16GB.exe, Asian Build	IntelWiFiDriver.exe
Wyse 7020 Accelerated Graphics thin client with WES7P—Z90QQ7P	BOB0_7066_16GB.exe, Asian Build	IntelWiFiDriver.exe
D90D7P	BDB0_0896_16GB.exe	IntelWiFiDriver.exe
Z90D7P	BZB0_0896_16GB.exe	IntelWiFiDriver.exe
Wyse 5060 thin client with WES7P	5060_7067_32GB.exe	IntelWiFiDriver_5060.exe
Latitude E7270 mobile thin client with WES7P	E7270_7065_128GB.exe	IntelWiFiDriver_E7270_3460.exe
Latitude 3460 mobile thin client with WES7P	3460_7065_128GB.exe	IntelWiFiDriver_E7270_3460.exe

**Table 4. Windows 10 IoT Enterprise Threshold**

Platform name	Build	Add-on name
Wyse 7020 thin client with Win10 IoT—Z90Q10	GOG0_0A62_32GB.exe	IntelWiFiDriver.exe
Wyse 7020 Accelerated Graphics thin client with Win10 IoT—Z90QQ10	GOG0_0A62_32GB.exe	IntelWiFiDriver.exe
Wyse 5020 thin client with Win10 IoT—D90Q10	GOG0_0A62_32GB.exe	IntelWiFiDriver.exe

**Table 5. Windows 10 IoT Enterprise RedStone**

Platform name	Build	Add-on name
Wyse 5060 thin client with Win10 IoT	5060_0A60_32GB.exe	IntelWiFiDriver_5060.exe
Latitude 5280 mobile thin client with Win10 IoT	5280_0A64_32GB.exe	IntelWiFiDriver_5280.exe
Latitude 3480 mobile thin client with Win10 IoT	3480_0A63_32GB.exe	QualcommWiFiDriver_3480.exe

**Table 6. Management server**

Management server	Version	Operating System
Wyse Device Manager (WDM)	5.7.2	Windows Server 2012 R2
Wyse Management Suite (WMS)	1.1	Windows Server 2012 R2
System Center Configuration Manager (SCCM)	2016 Microsoft System Center Configuration Manager Version 1606 Console version: 5.0.8412.1313 Site version: 5.0.8412.1000	Windows Server 2016 version 1607—Operating system build 14393.1715

## Network adapter details

**Table 7. Network adapter**

Add-on name	Network adapter	Driver version
IntelWiFiDriver.exe	Intel Dual Band Wireless-AC 7260 driver	18.33.9.3
IntelWiFiDriver_5060.exe	Intel Dual Band Wireless-AC 7265 driver	19.10.9.2
IntelWiFiDriver_E7270_3460.exe	Intel Dual Band Wireless-AC 3165 driver	19.10.10.2
IntelWiFiDriver_5280.exe	Intel Dual Band Wireless-AC 8265 driver	20.10.1.3
QualcommWiFiDriver_3480.exe	Qualcomm QCA61x4A 802.11ac wireless Adapter	12.0.0.448

## Parameters to install WPA2 driver add-on

**Table 8. Parameters**

Platforms	.exe file	Command parameters
Latitude E7270 mobile thin client with WES7P Latitude 3460 mobile thin client with WES7P	IntelWiFiDriver_E7270_3460.EXE	/s
Latitude 5280 mobile thin client with Win10 IoT	IntelWiFiDriver_5280.EXE	/s
Wyse 5060 thin client	IntelWiFiDriver_5060.EXE	--silent
Latitude 3480 mobile thin client Win10 IoT	QualcommWiFiDriver_3480.exe	/s
Other platforms	IntelWiFiDriver.exe	--silent

## Installing WPA2 driver add-on using Wyse Device Manager

**Note:** You can deploy WPA2 driver add-on using .exe deployment method. The .rsp deployment method is not applicable.

1. Go to the [Dell Wyse support](#).
2. Expand **Download Wyse Software and Driver**.
3. Click **Wyse Support Download**.
4. From the **Active** drop-down list, select your thin client model, and click **Search**.
5. The **Downloads** page is displayed.
6. Download the respective .exe file to your system.
7. Copy the downloaded .exe file to the Wyse Device Management server or to a local repository.
8. Double-click the **Wyse Device Manager Web UI** icon, and log in to the Wyse Device Management web console using valid credentials.
9. Go to **Applications > Other packages**.
10. Click the **Create Package (+)** button.
11. Click **Download**, and save the PkgRegister.exe file to the Wyse Device Management server.

12. Double-click the respective .exe file.  
The WDM Package Registration Utility window is displayed.
13. In the WDM Package Registration Utility window, select the respective .exe file and click **Browse**.
14. Navigate to the folder where you have downloaded the WPA2 driver .exe file.
15. Select the .exe file, operating system, and command parameters appropriately. For parameters, see [Parameters to install WPA2 driver add-on](#).
16. Click **Upload**.  
WPA2 driver add-on package is listed under **Applications > Other packages**.
17. Click **Devices**, and select a checked-in device where you want to install the add-on.
18. Click **Update**.
19. Go to **Select Packages > Other Package**, and select the **WPA2 Driver add-on** package.
20. Click **Save**, and then click **Update Now**.

## Installing WPA2 driver add-on using Wyse Management Suite

1. Go to the [Dell Wyse support](#).
2. Expand **Download Wyse Software and Driver**.
3. Click **Wyse Support Download**.
4. From the **Active** drop-down list, select your thin client model, and click **Search**.  
The **Downloads** page is displayed.
5. Download the respective .exe file to your system.
6. Copy the downloaded .exe file to the Wyse Management Suite server repository. For example, copy the downloaded file to C:\Share\repository\thinClientApps folder.
7. Log in to Wyse Management Suite.
8. Click **Portal Admin**, and select the **Local Repository** check box.
9. Click the **Sync Files** button.
10. Wait for the synchronization to complete, and click **Apps and Data**.
11. Verify the WPA2 Driver add-on package in the applications list.
12. To create a group in the Wyse Management Suite server, click **Groups**.
13. Click the **Plus sign (+)** button, and register your client in the same group.
14. Click the **Apps and Data** option, and click **Thin Client** under **App Policies**.
15. Click **Add Policy**, and update the required details.
16. Select the task as **Install Application**, OS type as **WES**, and select the OS sub filter and platform filter according to the operating system and platform.
17. Select the application, and enter the valid parameter. For parameters, see [Parameters to install WPA2 driver add-on](#)
18. Click **Save**.
19. To schedule the policy, click **Preview and schedule**.
20. Click **Jobs**, and select **Schedule App Policy**.
21. Click **Update Now**.

# Installing WPA2 driver add-on using System Center 2016 Configuration Manager (SCCM)

## Prerequisites:

- Join the thin client to the SCCM server domain and restart.
- Log in to the thin client with valid SCCM domain credentials.
- Change the time zone and time (HH:MM:SS) according to the SCCM server.
- Go to **Control Panel > Configuration Manager > Site > Configuration Settings**
- In the **Configuration Manager service location** section, enter the site code
- In the **Actions** tab, select each action, and click **Run Now**.
- A sys-tray pop up message is displayed, and the new software is available for installation.

## Adding device to new device collection

1. Go to **Assets and Compliance > Device Collections**.
2. In the Devices list, right-click a device, and click **Add Selected Items > Add Selected Items to Existing Device collection**.
3. In the **Device Collections** window, select the device to add to the collection, and click **OK**.
4. In the **Assets and Compliance** section, click **Device Collections** and verify whether the device is added.

## Creating a package

1. Go to the [Dell Wyse support](#).
2. Expand **Download Wyse Software and Driver**.
3. Click **Wyse Support Download**.
4. From the **Active** drop-down list, select your thin client model, and click **Search**.  
The Downloads page is displayed.
5. Download the respective .exe file.
6. Copy the installation package to the share folder.
7. Expand **Software Library > Overview > Application management > Packages**.
8. Right-click **Packages** and click **Create Package**.
9. Enter the package name, description, manufacturer name, language, and version.
10. Click **Next**.
11. Browse to the source folder where you have copied the sysprep files.
12. Click **Next**.
13. Select the **Standard Program** option as the program type.  
The Standard Program page is displayed.
14. Enter the required details and Click **Browse** to navigate to the .exe file location.
15. Select the .exe file as the command line and provide the parameters.  
The silent installation parameter is **--silent**.
16. Click **Next**.
17. Select the appropriate name, command line detail according to the platforms mentioned below.

Platforms	Command line
Latitude E7270 mobile thin client with WES7P Latitude 3460 mobile thin client with WES7P	IntelWiFiDriver_E7270_3460.exe /s
Latitude 5280 mobile thin client with Win10 IoT	IntelWiFiDriver_5280.exe /s
Wyse 5060 thin client	IntelWiFiDriver_5060.exe --silent
Latitude 3480 mobile thin client with Win10 IoT	QualcommWiFiDriver_3480.exe /s
Other platforms	IntelWiFiDriver.exe --silent

18. Click **Next**, and do not change the settings.
19. Verify the information that you have provided and click **Next**.
20. Click **Close**.

The newly created packages are listed in the **Application Management** under **Package**.

## Distributing content

1. In the **Distribute Content** wizard, right-click the software package which you have created, and click **Distribute content**.
2. From the **Add** drop-down list, select **Distribution Point**.
3. Select the program, and click **Next**.
4. Verify the information that you have provided on the summary page and click **Next**.
5. Click **Close**.
6. Right-click the created package and click **Deploy**.
7. Click the **Collection** option, and browse to the device list.
8. Click **Next**.
9. From the **Add** drop-down list, select **Distribution Point**.
10. Select the available distribution points, and click **OK**.
11. Click **Next** to complete the deployment process.
12. Click **Close**.  
The content status is displayed in green. It may take a few minutes to complete the distribution process.

## Creating a task sequence

1. Go to the [Dell Wyse support](#).
2. Expand Download Wyse Software and Driver.
3. Click **Wyse Support Download**.
4. From the **Active** drop-down list, select your thin client model, and click **Search**.  
The **Downloads** page is displayed.
5. Download the respective .exe file.
6. Copy the installation package to the share folder.
7. Expand **Software Library > Overview > Operating Systems**.
8. Right-click **Task Sequence**, and click **Create Task Sequence**.
9. In the New Task Sequence wizard, select **Install** an existing image package, and click **Next**.



10. Enter the Task sequence name, select the appropriate boot image, and then click **Next**.
11. Right-click the deployment task sequence, and click **Edit**.
12. From the **Add** drop-down list, select **Software > Install Package**.
13. Select the created package and click **Apply**.
14. Click **OK**.
15. Deploy the modified task sequence to the required device collection.

## Deploying task sequence

1. Click **Start > All Programs > Microsoft System Center > Configuration Manager Console**.  
The System Center Configuration Manger window is displayed
2. Click **Software Library**.
3. Expand **Overview > Operating Systems > Task Sequences**, and right-click **Task Sequences**.
4. Click **Deploy**.
5. Enter the task name and click **Browse**.
6. Select the newly created Devices Collection from the list.

## Known issues

**Table 9. Known issues**

Known issues	Workaround
Wireless connection is disconnected. SSID is removed from the saved wireless list in the thin client when you try to unregister the thin client from the WMS server.	NA
Wyse Device Manager: C:\Temp is not deleted, and the lock screen is not available when you push from Wyse Device Manager.	Edit the .rsp manually in the server side with DT command to delete C:\Temp and enable lock screen with LU and EL.
SCCM: C:\Temp is not deleted.	NA
Intel WiFi Driver add-on deployment from the SCCM server fails while deploying the add-on using task sequence.	Deploy the add-on without task sequence. <b>Note:</b> An error on the server side is present.

## Add-on information

**Table 10. Add-on information**

Platforms	
	<ul style="list-style-type: none"> <li>• Wyse 3030 thin client—3290</li> <li>• Wyse 5010 thin client with WES7—D90D7</li> <li>• Wyse 5020 thin client with WES7—D90Q7</li> <li>• Wyse 7010 thin client with WES7—Z90D7</li> <li>• Wyse 7020 thin client with WES7—Z90Q7</li> <li>• Wyse 5020 thin client with WES7P—D90Q7P (European Build)</li> <li>• Wyse 7020 thin client with WES7P—Z90Q7P (European Build)</li> <li>• Wyse 7020 Accelerated Graphics thin client with WES7P—Z90QQ7P (European Build)</li> <li>• Wyse 5020 thin client with WES7P—D90Q7P (Asian Build)</li> <li>• Wyse 7020 thin client with WES7P—Z90Q7P (Asian Build)</li> </ul>

	<ul style="list-style-type: none"> <li>• Wyse 7020 Accelerated Graphics thin client with WES7P—Z90QQ7P (Asian Build)</li> <li>• D90D7P</li> <li>• Z90D7P</li> <li>• Wyse 5020 thin client with Win10 IoT—D90Q10</li> <li>• Wyse 7020 thin client with Win10 IoT—Z90Q10</li> <li>• Wyse 7020 thin client with Accelerated Graphics with Win10 IoT—Z90QQ10</li> </ul>
<b>Add-on name</b>	IntelWiFiDriver.exe
<b>Type of file</b>	Application (.exe)
<b>Size</b>	216 MB—2273,30,296 bytes
<b>Driver version</b>	18.33.9.3
<b>Language</b>	English—United States

<b>Platforms</b>	<ul style="list-style-type: none"> <li>• Wyse 5060 thin client with WES7P</li> <li>• Wyse 5060 thin client with Win10 IoT</li> </ul>
<b>Add-on name</b>	IntelWiFiDriver_5060.exe
<b>Type of file</b>	Application (.exe)
<b>Size</b>	216 MB—2273,47,672 bytes
<b>Driver version</b>	19.10.9.2
<b>Language</b>	English—United States

<b>Platforms</b>	<ul style="list-style-type: none"> <li>• Latitude E7270 mobile thin client with WES7P</li> <li>• Latitude 3460 mobile thin client with WES7P</li> </ul>
<b>Add-on Name</b>	IntelWiFiDriver_E7270_3460.exe
<b>Type of file</b>	Application (.exe)
<b>Size</b>	149 MB—1572,77,576 bytes
<b>Driver version</b>	19.10.10.2
<b>Language</b>	English—United States

<b>Platforms</b>	Latitude 5280 mobile thin client with Win10 IoT
<b>Add-on Name</b>	IntelWiFiDriver_5280.exe
<b>Type of file</b>	Application (.exe)
<b>Size</b>	149 MB—1572,74,016 bytes
<b>Driver version</b>	20.10.1.3
<b>Language</b>	English—United States

<b>Platforms</b>	Latitude 3480 mobile thin client with Win10 IoT
<b>Add-on name</b>	QualcommWiFiDriver_3480.exe
<b>Type of file</b>	Application (.exe)
<b>Size</b>	208 MB—2187,04,024 bytes
<b>Driver version</b>	12.0.0.448
<b>Language</b>	English—United States

## Important notes

**Table 11. Additional information**

Sl.no	Platform	Information
1	Wyse 3030 thin client—3290	Thin clients restarts twice after you push the add-on with write filter enabled. Minimum space required is 1.3 GB.
2	Wyse 5010 thin client with WES7—D90D7	
3	Wyse 7010 thin client with WES7—Z90D7	
4	Wyse 5020 thin client with WES7—D90Q7	
5	Wyse 7020 thin client with WES7—Z90Q7	
6	Wyse 5020 thin client with WES7P—D90Q7P (European build)	
7	Wyse 7020 thin client with WES7P—Z90Q7P (European build)	
8	Wyse 7020 Accelerated Graphics thin client with WES7P—Z90QQ7P (European build)	
9	Wyse 5020 thin client with WES7P—D90Q7P (Asian build)	
10	Wyse 7020 thin client with WES7P—Z90Q7P (Asian build)	
11	Wyse 7020 Accelerated Graphics thin client with WES7P—Z90QQ7P (Asian build)	
12	D90D7P	
13	Z90D7P	
14	Wyse 7020 thin client with Win10 IoT—Z90Q10	
15	Wyse 7020 Accelerated Graphics thin client with Win10 IoT—Z90QQ10	
16	Wyse 5020 thin client with Win10 IoT—D90Q10	
17	Wyse 5060 thin client with WES7P	
18	Wyse 5060 thin client with Win10 IoT	
19	Latitude E7270 mobile thin client with WES7P	
20	Latitude 3460 mobile thin client with WES7P	
21	Latitude 5280 mobile thin client with Win10 IoT	
22	Latitude 3480 mobile thin client with Win10 IoT	

**Table 12. Applicable Microsoft Security Updates for WPA2 Vulnerability**

<b>Operating system</b>	<b>KB number</b>
Windows Embedded Standard 7	4041681, 4041678
Windows Embedded Standard 7 Professional	4041681, 4041678
Windows 10 IoT Threshold	4042895
Windows 10 IoT RedStone	4041691