BIOS and BIOS Settings Update Procedure on Windows 10 IoT Enterprise for Dell Wyse 7040 Thin Client



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

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Introduction

This document provides the steps to update/flash the BIOS on Dell Wyse Windows 10 IoT Enterprise for Wyse 7040 Thin Client. The BIOS can be updated using the following methods:

- · BIOS update by WDM Server
- · BIOS update by SCCM Server
- Manual BIOS Update
- BIOS update using Dell Command Configure (DCC)

BIOS Update using WDM Server

Prerequisites

The following are the requirements to update the BIOS using WDM server:

- WDM Server Setup (version 5.7.0 or later)
- WDM Package for BIOS
- Target thin clients (Wyse 7040 thin client)

Following are the four methods to update BIOS onto Windows 10 IoT for Dell Wyse 7040 thin client using WDM server:

- · Pushing the BIOS through WDM MMC console using .RSP file
- Pushing the BIOS through WDM WebUI using .RSP file
- Pushing the BIOS through WDM MMC console using .exe file
- Pushing the BIOS through WDM WebUI using .exe file

Topics:

- Pushing the BIOS through WDM MMC console using .RSP file
- Pushing the BIOS through WDM WebUI using .RSP file
- Pushing the BIOS through WDM MMC console using .exe file
- Pushing the BIOS through WDM WebUI using .exe file

Pushing the BIOS through WDM MMC console using .RSP file

The following are the steps to update the BIOS through WDM MMC console using .RSP file:

- 1 Download the WDM BIOS package from Dell support website.
- 2 Extract and keep the package in Local repository/WDM server.
- 3 Open the WDM server, and then open WDM console.
- 4 Expand the Wyse Device Manager > Package Manager > Other Packages.

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2009: W330WCM57A53 2011 浅 🗾 💥 🌄						ſ	• [P-9]	Version 5.5.

Figure 1. Other Packages

5 Right-click **Other Packages**, and then add a new package. The **Package Wizard** page is displayed. Click the **Register a Package from a Script file (.RSP)** radio button.



Figure 2. Package Wizard

6 Click **Next**, and browse the .rsp file from the file location where you have downloaded the BIOS package.



Figure 3. File Path

7 Complete the wizard and the BIOS package gets registered under **Other Packages**.

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B Device Manager	BootAgentUpgradeLinux	Boot Agent Upgrade for SLETC SP1/SP2 (3.3.4)	Active	SUSE Linux	8192	7/22/2015 12:00:00 PM	Yes
🖂 🎑 Package Manager	BootAgentLipgradeThin	Boot Agent Upgrade for Thinkinux (3.3.4)	Active	Thinkings	8192	SJ19J2016 12:32:51 AM	Yes
Agent Update	EBootAgentUpgradeWE85	Boot Agent Upgrade for WEBS (Ver-3.3.7)	Active	Windows Embe	37763	10/12/2014 12:00:00 PM	Yes
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	EBootAgentUpgradeWES7	Boot Agent Upgrade for WES7 (Ver-3.3.7)	Active	Windows Embe	10343	7/31/2014 12:00:00 PM	Yes
Cither Packages	DootAgenti.pgradeWES7P	Boot Agent Upgrade for WES7P (Ver-0.0.7)	Active	Windows Enbe	10051	7/31/2014 12:00:00 PM	Yes
PLOP Device configuration	BootAgentUpgradeW1E10	Boot Agent Upgrade for WIE10 (Ver-3.3.7)	Active	Windows 10 Jo	37763	\$J19/2016 12:32:49 AM	Yes
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Real Time Commands	Reboot	Device Reboot	Active	ALL	1	12/19/2011 12:50:17 PM	Yes
Recurring Updates	ResetOSSettings	Resets OS configuration to factory default	Active	64.1	1	10(29)2013 4:00:57 PM	Yes
E Report Nanagar	ShutDown	Device Shutdown	Active	41	1	12/19/2011 12:50:17 PM	Yes
E K Configuration Nanager	3 WakeOnLAN	Device WOL	Active	64.1	1	12/19/2011 12:50:17 PM	Yes

Figure 4. Package details

8 Drag and drop the registered package on Device manager. **Package Distribution Wizard** page is displayed.

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F	Recurring Update		Select All			Select All
?	1			< <u>B</u> ack	<u>N</u> ext >	Cancel

Figure 5. Package Distribution Wizard

9 Select the clients where you want to update the BIOS and complete the wizard. Use the **Scheduled Package** option to verify the progress of BIOS flash.

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Figure 6. BIOS Flash status

10 The target client reboots and a flash progress bar on the Dell logo screen is displayed as the BIOS update is being performed and boots into OS.

Pushing the BIOS through WDM WebUI using .RSP file

The following are the steps to update the BIOS through WDM WebUI using .RSP file:

- 1 Download the WDM BIOS package from the Dell support website.
- 2 Extract and keep the package in Local repository/WDM server.
- 3 Open the WDM server, and then open WDM WebUI. Login with WDM server credentials.
- 4 Expand Applications > Other Packages.

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Figure 7. Other Packages

5 Click the plus icon in the upper right corner, and then click **download**. Open the downloaded package and the **WDM Package Registration Utility** window opens.

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RSP	EXE	Username *
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Figure 8. WDM Package Registration Utility

6 Click **RSP** in the left pane and browse the **.rsp** file from the file location where you downloaded the BIOS package.

		WDM Server *
7040_BIOS_WI	E10.rsp	https://10.150.209.12 (Hint: https://10.100.214.103:443)
Number Description	7040_BIOS_WIE10 BIOS updation for DELL Wyse 7040 D	Username *
Operating System	WIE10	venus\administrator
Category	Other Packages	(Hint: Administrator)
Image Size		Password *
image type		•••••
		Save credentials (encrypted)
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Figure 9. RSP file selected

7 Click **Upload**. The BIOS package gets registered under Other Packages. After the upload process is complete, close the window.

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Figure 10. Package details

8 Click **Devices** in the left pane, select the checked-in devices where you want to update BIOS and click the **update** button.

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Figure 11. Package Distribution Wizard

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9 Under Select Package, click **Other Packages** and the select registered BIOS package and click **save**.

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Figure 12. BIOS Flash Package selected in wizard

10 The target client reboots and a flash progress bar on the Dell logo screen is displayed as the BIOS update is being performed and boots into OS.

Pushing the BIOS through WDM MMC console using .exe file

The following are the steps to update the BIOS through WDM server using .exe file:

- 1 Download the .exe file from Dell support website.
- 2 Extract and keep in Local repository / WDM server.
- 3 Open the WDM server, and then open WDM console.
- 4 Expand Wyse Device Manager > Package Manager > Other Packages.

WyseDeviceManager - [Console Root'\WyseDevic	eManager/(Package Manag	er',Other Packages]						- 5 3
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🗄 🔨 Configuration Manager	ShutDown	Device Shutdown	Active	ALL	1	12/19/2011 12:50:17 PM	Yes	
	E/WakeOnLAN	Device WOL	Active	ALI	10	12/19/2011 12:50:17 PM	Yes	
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Figure 13. Other Packages

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5 Right-click Other Packages, and then add a new package. The Package Wizard page is displayed. Click the Register a package to install a File. (exe, msi, msu, or bat files only) radio button.



Figure 14. Package Wizard

6 Click **Next**, and browse the .exe file from the file location where you have downloaded the .exe file.



Figure 15. Package Wizard

7 Click **Next**, and enter the command line parameters and operating system details.

	Create a Package to Path on the Device	o Copy Wyse_7040_1.4.4.exe (• File Size: 8.1 MB	o the Selected
010	Package Informatio	n	
ATA	<u>N</u> ame	Wyse_7040_1_4_4	✓ Active
011	<u>D</u> escription	Install Wyse_7040_1.4.4.exe	
MTT	<u>C</u> ategory	Other Packages	•
1010	Install Path on Thin Client:	C:\Temp	
	Command Line Parameters	/s /r	
TTO	Operating System:	Windows 10 IoT Enterprise	

Figure 16. Command Line

Enter the Command Line Parameters as /s/r, and select the Operating System from the drop-down list.

8 Complete the wizard and the BIOS package gets registered under **Other Packages**.

Console Root	Name -	Description	3.80.5	05	Ste 0(8)	Greated	Default	
🗉 🧿 WyseDeviceManager	317040_8103_WIE10	8105 updation for DELL Wyse 7040 Devices.	Active	Windows 10 Ja	8369	11/28/2006 1:18:51 AM	No	-
Device Manager	E Boot Agent UpgradeLinux	Boot Agent Upgrade for SLETC SP1/SP2 (3.3.9)	Active	SUSE Linux	0192	7/01/2016 12:00:00 PM	Yes	
E Ca Padiage Manager	EiBootAgentUpgradeThirLinux	Book Agent Upgrade for Thinkinux (3.3.9)	Active	Thinkings	8192	7/31/2016 12:00:00 PM	Tes	
Agerc Update Agerc Update Device Configuration Device Configuration Drages Other Pachages	EBootAgentUpgradeWE85	Boot Agent Upgrade for WE85 (Ver-3.3.5)	Active	Windows Embe	37763	7/31/2016 12:00:00 PM	Yes	
Device Configuration	ElBootAgentUpgradeWEBSx	Book Agent Upgrade for WEDSx (Ver-3.3.9)	Active	Windows Ende	10343	7/31/2016 12:00:00 PM	Yes	
Dangen	EBootAgentUpgradeWES7	Book Agent Upgrade for WES7 (Ver-3.3.9)	Active	Windows Enbe	10343	7/31/2016 12:00:00 PM	Tes	
Images Other Pachages PoolP Device configuration Output Dodde Innanger Report Manager	ElBootAgentUpgradeWES7P	Boot Agent Upgrade for WES/IP (Ver-3.3.9)	Active	Windows Enbe	10351	7/31/2016 12:00:00 PM	Tes	
	EiBootAgentUpgradeWIE10	Book Agent Upgrade for WIE1D (Ver-3.3.9)	Active	Windows 10 Ia	37763	7/31/2016 12:00:00 PM	Yes	
	EReboot	Device Reboot	Active	AU	1	12/19/2011 12:50:17 PM	Yes	
E A Configuration Nanadar	E Reset OSSettings	Resets OS configuration to factory default	Active	ALL	1	10/29/2013 4:08:57 PM	Tes	
Coffiguration Manager	3 ShutDown	Device Stubdown	Active	ALL	1	12/19/2001 12:50:17 PM	Yes	
	EIWSREONLAN	Device WOL	Active	AU.	1	12/19/2011 12:50:17 PM	Tes .	
	Wyse_7040_1_4_4	Install Wyse_7040_1_4_4.exe	Active	windows 10 Jo	8973	1/16/2017 3:44:01 AM	Mo	

Figure 17. Package details

9 Drag and drop the registered package on Device manager. The **Package Distribution Wizard** page is displayed.

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earc	ch Criteria Fie	eld(s)	Go		Sel	ected Device	8
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R	Recurring Update		Select All				Select All
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Figure 18. Package Distribution Wizard

10 Select the clients where you want to update the BIOS and complete the wizard. Use the **Scheduled Package** option to verify the progress of BIOS flash.

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Figure 19. BIOS Flash status

11 The target client reboots three times to complete the BIOS update.

Pushing the BIOS through WDM WebUI using .exe file

The following are the steps to update the BIOS through WDM WebUI using .exe file:

- 1 Download the WDM BIOS package from Dell support website.
- 2 Extract and keep in Local repository/WDM server.
- 3 Open the WDM server, and then open WDM WebUI. Login with WDM server credentials.
- 4 Expand Applications > Other Packages.

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Figure 20. Other Packages

5 Click the plus icon in the upper right corner of the screen, and then click download. Open the downloaded package, and then **WDM Package Registration Utility** window opens.

	WDM Package R	egistration Utility 🗢 🗙
WDM Task		WDM server address and credentials
		WDM Server *
		https://10.150.209.12
		(Hint: https://10.100.214.103:443)
RSP	EXE	Username *
1101		venus\administrator
Register Rsp	Register Exe	(Hint: Administrator)
		Password *
		Save credentials (encrypted)

Figure 21. WDM Package Registration Utility

6 Click EXE in the left pane and browse the **exe** file from the file location where you have downloaded the BIOS package. Select the target client operating system and pass the Command line parameters as shown in the following picture.

iect exe, msi, i	lisu or b		WDW server address and credente
Wyse_7040_Wi	E10.exe		WDM Server *
Number	Wyse_7	040_WIE10	https://10.150.209.12
Description	Wyse_7	040_WIE10.exe	(Hint: https://10.100.214.103:443)
Operating System Category	WIE10 Other Pa	ackages	Username *
Image Size	8373		venus\administrator
Install Path	C:\Temp	1	(Hint: Administrator)
Command Parameter	rs /s/r	8	Password *
Select Operating Sys	tem * Wind	dows 10 IoT Enterprise	
Install Path on Thin C	lient *	Command Parameters	Save credentials (encrypted)
C:\Temp		/s /r	On
(Must be a valid path on	Thin Client)	(Hint: some-file-name, or some-flag)	

Figure 22. EXE file selected

7 Click **Upload**. The BIOS package gets registered under Other Packages. After the upload process is complete, close the window.

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Figure 23. Package details

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8 Click the **Devices** option in the left pane, select the checked-in devices where you want to update BIOS and then click the **Update** button.

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Figure 24. Package Distribution Wizard

9 Under select package, click **Other Packages** and then select the registered BIOS package and click **Save**.

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Figure 25. BIOS Flash Package selected in wizard

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10 The target client reboots and a flash progress bar on the Dell logo screen is displayed as the BIOS update is being performed and boots into OS.

BIOS update using SCCM server

Prerequisites

The following are the requirements to update the BIOS using SCCM server:

- SCCM server 2012 R2
- · BIOS .exe file
- Target Thin clients (Wyse 7040 thin client)

Following is the method to update BIOS onto Windows 10 IoT Enterprise for Wyse 7040 thin client using SCCM server:

• Pushing the BIOS through SCCM server using .exe file.

Creating a package

To create a package, do the following:

- 1 Create a folder on your Configuration Manager Content Source Share for packages.
- 2 Copy the installation package to the product folder .
- 3 Open the System Centre Configuration Manager Console and go to Software Library > Application Management > Packages.
- 4 Click **Packages** and then select **Create Package**.



Figure 26. Create Package

Create Package and Program Wizard page is displayed.

3	Create Package and Program Wizard	x
C Package Program Type Standard Program Requirements Summary Progress Completion	Create Package and Program Wizard Specify information about this package Enter a name and other details for the new package. To take full advantage of new features that include the Application Catalog, use an application instead. Name: BiosUpdate Description:	x
	< Previous Next > Summary Cancel	

Figure 27. Package

5 Click **Next** to continue. The **Program Type** page is displayed.



Figure 28. Program Type

6 Select the **Standard Program** option, and click **Next** to continue. The **Standard Program** page is displayed.

<u>.</u>	Crea	ate Package and Program Wizard	x
Standard Pro	ogram		
Package Program Type Standard Program Requirements Summary Progress Completion	Specify information Name: Command line: Startup folder: Bun: Program can ryn: Run modg: I flow users to view	BiosUpdate Wyse_7040_1.4.4 exe Browse Normal Only when a user is logged on Run with user's rights and interact with the program installation	
	Drive mode:	Runs with UNC name v	
		< <u>P</u> revious <u>N</u> ext > <u>Summary</u> Cance	4

Figure 29. Standard Program

7 In the **Standard Program** package, enter the package name, and in the **Command Line** field browse the path where the BIOS .exe file is located (setup .exe /s). Click **Next** to continue.

The **Requirements** page is displayed.

3	Create Package and Progra	am Wizard		
Requirement:				
Package Program Type Standard Program Requirements Summary Progress Completion	Specify the requirements for this stand Bun another program first Package: Program: Always run this program first Platform requirements This program can run on any platform This program can run only on specified platforms AlWindows BT	dard program	Bro <u>w</u> se	
	All Windows RT 8.1 All Windows RT 8.1 All Windows 10 Professional/Enterprise and h All Windows 10 Professional/Enterprise and h All Windows 7 (64-bit) All Windows 8 (64-bit) All Windows 8 (64-bit) Windows Embedded 8 Industry (64-bit) Windows Embedded 8 Standard (64-bit) Windows Embedded 8 Standard (64-bit) Windows Embedded 8 Standard (64-bit) Estimated disk space:	igher (32-bit) igher (64-bit)		
	Maximum allowed run time (minutes):	120	Activate Wi	nd
	< <u>P</u>	revious <u>N</u> ext >	Activate V Summary P SysCan activate Win	Vi cel

Figure 30. Requirements

8 Click **Next** to continue. The **Summary** page is displayed.

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3	Create Package and Program Wizard		
Summary			
Package Program Type Standard Program Requirements	Confirm the settings		
Summary Progress Completion	General: Name: BiosUpdate • Description: • Version: • Aurys obtain files: Nausdwscom-w12/Deployment_Share/arini/Wyse_7040_1_4_4 • Always obtain files from the source folder Program Program: • Name: BiosUpdate • Command line: Wyse_7040_1.4.4.exe • Start in: • Run mode: Run with user's rights • Program can run: Only when a user is logged on • Allow users to view and interact with the program installation • Drive mode: Runs with UNC name Requirements: • Platforms supported: Any • Maximum allowed runtime(minutes): 120 To change these settings, click Previous. To apply the settings, click Next.	cel	

Figure 31. Summary

- 9 After you create the package, verify whether all the information is correct.
- 10 Click **Next** to continue.

The **Completion** page is displayed.



Figure 32. Completion

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- 11 Click **Close** to complete the process.
- 12 Right-click the package created, and select the **Distribute Content** option.



Figure 33. Distribute content

- 13 After the package content is distributed, check if the status of the package turns green.
- 14 Join the client to Domain.
- 15 Discover the client into SCCM server.
- 16 Check if the device is discovered, and go to **Assets and compliance** > devices and check the MAC id of the client.
- 17 Add the device to the device collection.

Manual Update of BIOS

Prerequisites

- BIOS Binary(.exe file)
- Target Thin clients (Dell Wyse Windows 10 IoT Enterprise for Wyse 7040 Thin Client)

The BIOS can be updated manually using the following methods:

- Updating the BIOS manually by BIOS boot menu.
- · Updating the BIOS manually from OS.

Topics:

- Updating the BIOS Manually from OS
- · Updating the BIOS Manually by BIOS Boot Menu

Updating the BIOS Manually from OS

To update the BIOS manually from OS, do the following:

- 1 Download the BIOS binary (.exe file) to the target thin client. The .exe file can also be copied and executed from a USB key.
- 2 Execute the binary file. The user confirmation is required to update the BIOS. Click **Ok**, and then client reboots once. The BIOS is updated.

Updating the BIOS Manually by BIOS Boot Menu

To update the BIOS manually by BIOS boot menu, do the following:

- 1 Copy the downloaded .exe file to a USB drive (It does not need to be bootable).
- 2 Plug in the USB drive into any USB port.
- 3 Turn on the system.
- 4 On the Dell logo screen, press the F12 key to access the one time boot menu.
- 5 In the Other Options section, select BIOS Flash Update.
- 6 Browse the USB drive to locate the downloaded .exe file.
- 7 Select the required .exe file, and then click **Ok**.
- 8 Verify the existing system BIOS information and the BIOS update information. Click **Begin Flash Update.**
- 9 After you review the warning message, click **Yes** to continue.
- 10 The system restarts, and displays a Flash Progress bar on the Dell logo screen as the BIOS is being updated.
- 11 The system restarts again after the flash update is complete.

BIOS Update by Using Dell Command Configure

Dell Command | Configure is a packaged software that provides configuration capability to business client systems. You can configure the client systems using a Graphical User Interface (GUI) or a Command Line Interface (CLI).

For more information on CLI, see *Dell Command | Configure Command Line Interface Reference Guide* available at www.dell.com/ dellclientcommandsuitemanuals. You can use Dell Command | Configure in Red Hat Enterprise Linux environments and Microsoft Windows Preinstallation Environment (Windows PE), and on the Microsoft Windows Vista, Windows 7, Windows 8, Windows 81, and Windows 10 operating systems.

For more information about DCC configuration and Creating a BIOS package using DCC GUI, see *Dell Command | User's Guide* and *Dell Command | Deployment Guide* available at www.dell.com/support/home/us/en/19/product-support/product/dell-cmnd-config-v3.1/ manuals.