Dell Wyse Windows 10 IoT Enterprise for Latitude 3480 mobile thin client

BIOS upgrade 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.
- 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 the BIOS on a Dell Wyse Windows 10 IoT Enterprise for Latitude 3480 mobile thin client. You can update the BIOS using the:

- · Wyse Device Manager server
- System Center Configuration Manager (SCCM) server
- USB drive

() NOTE:

The build number is represented as 1.x.x. The value of x is not constant and changes with every update to the build. The build number displayed in the images is for reference and the build number on your system may vary.

Upgrading the BIOS using WDM server

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(i) NOTE: Ensure that you are using WDM server setup v5.7.2 or later

The following are the steps to update the BIOS:

- 1 Download the WDM BIOS package from the support.dell.com.
- 2 Extract and store the file in your local repository or the WDM server.
- 3 Open the WDM server.
- 4 Log in using your WDM server credentials.
- 5 Click **Applications > Other Packages** and then click the plus icon on the screen, and then click download.
- 6 Open the downloaded package.

The WDM Package Registration Utility window opens.

Dell Wyse Device	Manag	ger				Q Search	19	xxxxxx +
Dashboard	Othe	r Pack	ages				С	+
Devices			NAME ~	DESCRIPTION	OPERATING SYSTEM	CREATED AT		
Applications			BootAgentUpgradeLinux	Boot Agent Upgrade for SLETC SP1/SP2 (3.4.4)	SUSE Linux	2016-07-31 12:00:00.200		
Agent Update		•	BootAgentUpgradeThinLinux	Boot Agent Upgrade for ThinLinux (3.4.4)	ThinLinux	2016-07-31 12:00:00.200		
Device Configuration		•	BootAgentUpgradeWE8S	Boot Agent Upgrade for WE8S (Ver-3.4.4)	Windows Embedded 8 Standard 64	2016-07-31 12:00:00.200		
Images		•	BootAgentUpgradeWE85x	Boot Agent Upgrade for WE85x (Ver-3.4.4)	Windows Embedded 8 Standard 32	2016-07-31 12:00:00.200		
images		•	BootAgentUpgradeWES7	Boot Agent Upgrade for WES7 (Ver-3.4.4)	Windows Embedded Standard 7	2016-07-31 12:00:00.200		
Other Packages		•	BootAgentUpgradeWES7P	Boot Agent Upgrade for WES7P (Ver-3.4.4)	Windows Embedded Standard 7 P	2016-07-31 12:00:00.200		
PCoIP Device configuration		•	BootAgentUpgradeWIE10	Boot Agent Upgrade for WIE10 (Ver-3.4.4)	Windows 10 IoT Enterprise	2016-07-31 12:00:00.200		
🗘 Updates		•	Reboot	Device Reboot	ALL	2011-12-19 12:50:16.970		
Reports		•	ResetOSSettings	Resets OS configuration to factory default	ALL	2013-10-29 16:08:57.000		
😅 System		•	ShutDown	Device Shutdown	ALL	2011-12-19 12:50:17.063		
		•	WakeOnLAN	Device WOL	ALL	2011-12-19 12:50:17.017		
						Activate Windows Go to System in Control Panel to activate	• Windows	
	11 Packa	ge(s) Lis	ted				1	OF 1 < >

Figure 1. Dell Wyse Device Manager

7 Click **EXE** and browse to the folder where the BIOS package is located.

		WDM Package Reg	jistration Utility	e ×
W	/DM Task		WDM server address and	l credentials
			WDM Server *	
			https://10.150.214.11:443	
			(Hint: https://10.100.214.103:443)	
	RSP	EXE	Username *	
			wetest\vkk	
	Register Rsp	Register Exe	(Hint: Administrator)	
			Password *	
			•••••	
	Allows you to choose a lo	al lexemsimsu. or .bat file.		
	and upload it to the WDM	server.	Save credentials (encrypted)	
			On	

Figure 2. WDM Package Registration Utility

- 8 Select the target client operating system and enter the command line parameters /s /r.
- 9 Click Upload.

The BIOS package is registered under **Other Packages**.

B0_3580_1.0.3.exe WDM Server * Latitude_3480_3580_1.0.3 https://10.150.214.11:443 Latitude_3480_3580_1.0.3.exe https://10.100.214.108.443) MWIE10 Username * Other Packages wetest\vkk 6435 (Hint: Administrator) C:\Temp Password *		inibu or o		WDM Server dualess and creacht
Latitude_3480_3580_1.0.3 Latitude_3480_3580_1.0.3.exe https://10.150.214.11:443 (Hint: https://10.100.214.103.443) WIE10 Other Packages 6435 C:\Temp weters /s /r Password *	Latitude_348	0_3580_1.0).3.exe	WDM Server *
Latitude_3480_3580_1.0.3.exe (Hint: https://10.100.214.103.443) MUE10 Other Packages 6435 C:\Temp weters /s /r Password *	Number	Latitude	2_3480_3580_1.0.3	https://10.150.214.11:443
h WIE10 Other Packages 6435 C:\Temp Heters /s /r Determine * Username * Username * Wetest\vkk (Hint Administrator) Password * •••••••	Description	Latitude	_3480_3580_1.0.3.exe	(Hint: https://10.100.214.103:443)
6435 wetest\vkk (Hint: Administrator) Password *	Operating System Category	WIE10 Other P	ackages	Username *
C:\Temp (Hint: Administrator) Password *	Image Size	6435		wetest\vkk
Password *	Install Path	C:\Temp	,	(Hint: Administrator)
••••••	Command Parame	ters /s/r		Password *
System * Windows 10 IoT Enterprise	Select Operating S	ystem * Win	dows 10 IoT Enterprise	
	Install Path on Thir	Client *	Command Parameters	Save credentials (encrypted)
in Client Command Parameters Save credentials (encrypted)	C:\Temp		/s /r	On
in Client Command Parameters /s /s On	(Must be a valid path o	on Thin Client)	(Hint: some-file-name, or some-flag)	
System * Windows 10 IoT Enterprise	nstall Path Command Parame Select Operating S	C:\Temp ters /s/r ystem * Wind	dows 10 IoT Enterprise	Password *
6 1 1 1 1 A B	Install Path on Thir	Client *	Command Parameters	Save credentials (encrypted)
in Client Command Parameters Save credentials (encrypted)	C:\Temp		/s /r	On
in Client Command Parameters /s/t On	(Must be a valid path of	on Thin Client)	(Hint: some-file-name, or some-flag)	

Figure 3. EXE file selected

10 After the upload process is complete, close the window.

		ager				O, search	Aco .	
Dashboard	Ot	her Pack	kages				С	+
Devices			NAME 🗸	DESCRIPTION	OPERATING SYSTEM	CREATED AT		
Applications			BootAgentUpgradeLinux	Boot Agent Upgrade for SLETC SP1/SP2 (3.4.4)	SUSE Linux	2016-07-31 12:00:00.20		
gent Update		•	BootAgentUpgradeThinLinux	Boot Agent Upgrade for ThinLinux (3.4.4)	ThinLinux	2016-07-31 12:00:00.20		
evice Configuration		•	BootAgentUpgradeWE8S	Boot Agent Upgrade for WE85 (Ver-3.4.4)	Windows Embedded 8 Standard 64	2016-07-31 12:00:00.20		
		•	BootAgentUpgradeWE8Sx	Boot Agent Upgrade for WEBSx (Ver-3.4.4)	Windows Embedded 8 Standard 32	2016-07-31 12:00:00.20		
lages		•	BootAgentUpgradeWES7	Boot Agent Upgrade for WES7 (Ver-3.4.4)	Windows Embedded Standard 7	2016-07-31 12:00:00.20		
ther Packages		•	BootAgentUpgradeWES7P	Boot Agent Upgrade for WES7P (Ver-3.4.4)	Windows Embedded Standard 7 P	2016-07-31 12:00:00.20		
CoIP Device configuration			BootAgentUpgradeWIE10	Boot Agent Upgrade for WIE10 (Ver-3.4.4)	Windows 10 IoT Enterprise	2016-07-31 12:00:00.20		
Updates		•	Latitude_3480_3580_1.0.3	Latitude_3480_3580_1.0.3.exe	Windows 10 IoT Enterprise	2017-04-24 12:01:38.12:		
Reports			Reboot	Device Reboot	ALL	2011-12-19 12:50:16.97		
System		•	ResetOSSettings	Resets OS configuration to factory default	ALL	2013-10-29 16:08:57.00		
		•	ShutDown	Device Shutdown	ALL	2011-12-19 12:50:17.06		
		•	WakeOnLAN	Device WOL	ALL	2011-12-19 12:50:17.01		

Figure 4. Package details

11 Click **Devices** and select the devices that require an update and click **Update**.

Dell Wyse Devic	e Manager					Q Search		15	
Dashboard	All Devices	*				C *	Save	Cancel	$\overline{\mathbf{v}}$
Devices	~	NAME ~	IP ADDRESS 🔉	Distribute Package 1 Devices(s) selected					Clear All
Applications	•	1234567wES	10.150.212.56	Select Package					
🗘 Updates				No Package Selected		~			
A Reports				Schedule Distribution					
📑 System				One time distribute	Recurring distribution				
				Distribute Now 🛩					
				Retry failed updates Off					
	1 Device(s) Listed		1 OF 1 <						

Figure 5. Devices

- 12 Under select package, click **Other Packages** and then select the registered BIOS package.
- 13 Click Save.

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Figure 6. BIOS Flash Package selected in wizard

The client restarts and upgrades the BIOS.

Upgrading the BIOS using SCCM server

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(i) NOTE: Ensure that you use SCCM server 2016 R2 or later

To create a package, do the following:

- 1 Download the WDM BIOS package from the support.dell.com
- 2 Create a folder in **Configuration Manager Content Source Share** for packages.
- 3 Copy the installation package to the product folder.
- 4 Open the System Centre Configuration Manager Console and go to Software Library > Application Management > Packages.
- 5 Click **Packages** and then select **Create Package**.

Home Folder									~ 0
fi fi 🔪 📫	Se Manage Access Accounts	🔶 🦣	111		8				
Create Create Package Import Saved Package from Definition Searches *	Create Program X Delete	Deploy Distribute Content D	Update istribution Points	Move Set S	ecurity Proper	ties			
Create Search	Package	Deploym	nent	Move Cl	assify Proper	ties			
🗲 🔶 👻 🛐 🔪 Software Library 🔸	Overview + Application Management + Packages								• 2
Software Library	Packages 14 items								
 Øverview 	Search								🗙 👂 Search 🛛 Add Criteria 🕶
4 🛗 Application Management	Icon Name	Programs	Manufacturer	Version	Language	Package ID			
Applications	Boot_Time_Fix_WES7P	1				NPI0001A			
License Information for Store Apps	BootTime	1				NPI0001C			
Packages	Disable_WF	1				NPI00042			
Approval Requests	Enable WF	1				NPI00043			
[4] Global Condit Manage application regu	ests from users for Software	1				NPI00049			
App-V Virtual Center applications that i	require approval.	1				NPI0004A			
N Windows Sideloading Keys	Potomac Dicense	0				NPI00024			
F Application Management Policies	WE IOSOIANO_Sysprep	1				NDIOOGAR			
App Configuration Policies	Write Media Sig	0				NPIODODE			
Software Updates	Docking Station	1	Dell	1000	Eng	NPI00041			
Operating Systems	TESTexclusion	1	dsfsd		sdf	NPI00020			
Windows 10 Servicing	Configuration Manager Client Upgrade	1	Microsoft	6.0	ALL	NPI00040			
	Configuration Manager Client Package	0	Microsoft Corpo			NPI00001			
	Boot_Time_Fix_WES7P								Ÿ
	Package Properties					Content Status			Related Objects
	Peckage ID: NPI0001A Manufacturen Version: Language:						0 Targeted (Last Update: Never)	Success: 0 In Progress: 0 Failed: 0 Unknown: 0	Content Status
Assets and Compliance									
Software Library									
Monitoring									
Administration									
	•								
Readu	Summary Programs Deployments								
LATAN I									

Figure 7. WDM interface

Create Package and Program Wizard page is displayed.

Create Package and Prog	ram Wizard	×
Package		
Package	Specify inform	nation about this nackade
Program Type Standard Program Requirements Summary	Enter a name and Application Catalo	other details for the new package. To take full advantage of new features that include the , use an application instead.
Progress	Name:	BIOSupdate
Completion	Description	E la calcasa
	Percentation.	^
		v
	Manufacturer:	
	Language:	Version:
	Ihis package	contains source files
	Source folder:	
	\\wesccm201	6arv\Share_NPI1\3480_BIOS Browse
		< Previous Next > Summary Cancel

6 Click Next.

The **Program Type** page is displayed.



Figure 8. Program Type

7 Select Standard Program and click Next to continue.The Standard Program page is displayed.

Create Package and Prog	gram Wizard am		×					
Package Program Type Standard Program Requirements Summary Progress Completion	Specify information	BIOSupdate Latitude_3480_3580_1.0.3.exe Browse						
	Startup folder: <u>R</u> un: Program can ryn: Run mode:	Normal Only when a user is logged on						
	Allow users to view.	Aun with User's name						
	Reconnect to distrib	ution pgint at log on						
		< Previous Next > Summary Cancel						

Figure 9. Standard Program

- 8 In the **Standard Program** package, enter the package name, and in the **Command Line** field browse to the folder where the BIOS executable file is located.
- 9 Click Next.

The **Requirements** page is displayed.

🛐 Create Package and Progra	am Wizard X
Requirements	
Package Program Type Standard Program Requirements Summary Progress Completion	Specify the requirements for this standard program Bun another program first Packagoe: Program: Program: Program: Program first Platform requirements This program can run on any platform This program gan run on any platform This program gan run on sty on specified platforms All Windows RT 8.1 All Windows RT 8.1 All Windows RT 9.1 Al
	Al Windows 7 (64-bit) Al Windows 8 (64-bit) Al Windows 8 (64-bit) Al Windows 8 (64-bit) Windows Embedded 8 Standard (64-bit) Windows Embedded 8 Standard (64-bit) Windows Embedded 8 Standard (64-bit) Windows Embedded 8.1 Industry (64-bit) Maximum allowed run time (minutes): 120 Cancel
	< <u>Previous</u> <u>Next</u> <u>Summary</u> Cancel

Figure 10. Requirements

10 Click **Next** to continue.

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The **Summary** page is displayed.



Figure 11. Summary

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

The **Completion** page is displayed.



Figure 12. Completion

- 13 Click Close.
- 14 Right-click the package created, and select **Distribute Content**.

Home Folder		^ 🔞
福 福 🔪 📫	🐉 Managa Access Accounts 🏫 🖉 Export 📥 🦣 🏬 👘	
Create Create Package Import Saved	Create Prestaged Content File Cale Arbeits Deploy Distribute Update Move Set Security Properties	
Package from Definition Searches •	Program Context Distribution Ponts Scopes Package Package Decloment Distribution Ponts Decloment Package Decloment Package Decloment Package P	
← → - 🔄 \ + Software Library + Or	erview + Application Management + Pactages	- 2
Software Library	Packages 15 items	
4 🗿 Overview	Search	X D Search Add Criteria *
4 🧮 Application Management	kon Name Programs Manufacturer Version Language Package ID	
Applications	BIOSupdate 1 NPI00061	
License Information for Store Apps	Boot_Time_Fix_WES7P 5 Manage Access Accounts NPI0001A	
Packages	BootTime Create Prestaged Content File NPI0001C	
Approval Requests	Disable_WF Create Program NPI00042	
[#] Global Conditions	Enable WF P Export NP[00043	
Rpp-V Virtual Environments	Ci Prretox G Refresh F5 NVICUO49	
Nindows Sideloading Keys	Precursation Delete Delete NPI0004	
F Application Management Policies	The second secon	
App Configuration Policies	WE10-UWF-enable Distribute Content NP00048	
Software Updates	Write_Merlin_Sig If Update Distribution Points NPI0000E	
Operating Systems	Docking Station Docking Station Docking Station Docking Station	
Windows 10 Servicing	TESTexclusion	
	Configuration Manager Clere	
	Configuration Manager Client Properties orpo NP/00001	
	BIOSupdate	~
	Ruhan Dimentiar Coster Solur	alatard Objacts
	Texage in optimes	The Control Carton
	Package ID: NPI00061 Success: 0 Manufacturer: In Program: 0	Content status
	Version: Electron of the second secon	
	Language	
	• rargetee (Last upgate +//-4/2/11 History All)	
Assets and Compliance	3	
Software Library		
Monitoring		
Administration		
	Summary Programs Deployments	

Figure 13. Distribute Content

- 15 After the package content is distributed, check if the status of the package turns green.
- 16 Join the client to the domain.

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- 17 Discover the client into SCCM server.
- 18 Check if the device is discovered, and go to **Assets and compliance** > **devices** and check the MAC id of the client. Add the device to the device collection.
- Deploy the BIOS package to the created device collection.
 The client restarts and upgrades the BIOS.

Upgrading the BIOS using USB drive from the operating system

To update the BIOS using USB drive from the operating system, do the following:

- 1 Download the BIOS binary file to the thin client. The executable file can also be copied and run from a USB key.
- Run the file.
 The user confirmation is required to upgrade the BIOS.
- Click **Ok**.The client restarts and upgrades the BIOS.

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Upgrading the BIOS using USB drive through the BIOS boot menu

To upgrade the BIOS using USB drive through the BIOS boot menu, do the following:

- 1 Copy the downloaded executable file to a USB drive.
- 2 Plug-in the USB drive into any USB port.
- 3 Turn on the system.
- 4 On the Dell logo screen, press <F12> key to access the boot menu.
- 5 In Other Options select BIOS Flash Update.
- 6 Browse to the folder to locate the downloaded executable file and click **Ok**.
- 7 Verify the existing system BIOS information and the BIOS update information.
- 8 Click Begin Flash Update.
- 9 After you review the warning message, click **Yes** to continue. The client restarts and upgrades the BIOS.

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