# Vostro 5402

Setup and specifications guide



Regulatory Model: P130G Regulatory Type: P130G002 October 2020 Rev. A01

## 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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# Contents

Chapter 1: Set up your computer	5
Chapter 2: Chassis overview	
Display view	
Left view	
Right view	
Palm-rest view	
Bottom view	
Keyboard shortcuts	
Chapter 3: System specifications	
Processor	
Chipset	
Operating system	
Memory	
Storage	
Ports and connectors	
Audio	
Video	
Camera	
Communications	
Media-card reader	17
Power adapter	17
Battery	
Dimensions and weight	
Display	
Keyboard	
Touchpad	
Touchpad gestures	
Fingerprint reader (optional)	
Security	
Security Software	
Computer environment	21
Chapter 4: Software	22
Downloading Windows drivers	
Chapter 5: System setup	23
Boot menu	
Navigation keys	
Boot Sequence	
BIOS setup	
Overview	24
Boot configuration	

Integrated Devices	
Storage	
Display	
Connection options	
Power management	
Security	
Password	
Update and Recovery	
System management	
Keyboard	
Pre-boot behavior	
Virtualization support	
Performance	
System logs	
Updating the BIOS in Windows	
Updating BIOS on systems with BitLocker enabled	
Updating the Dell BIOS in Linux and Ubuntu environments	
Flashing the BIOS from the F12 One-Time boot menu	
System and setup password	42
Assigning a system setup password	
Deleting or changing an existing system setup password	43
Chapter 6: Getting help	
Contacting Dell	

# Set up your computer

1. Connect the power adapter, and press the power button.



- **NOTE:** To conserve battery power, the battery might enter power-saving mode. Connect the power adapter and press the power button to turn on the computer.
- **NOTE:** After the initial turn on and setup of the computer, the computer can subsequently turn on just by opening the display from a closed position.
- 2. Finish operating system setup.

#### For Ubuntu:

Follow the on-screen instructions to complete the setup. For more information about installing and configuring Ubuntu, see the knowledge base articles SLN151664 and SLN151748 at www.dell.com/support.

For Windows: Follow the on-screen instructions to complete the setup. When setting up, it is recommended that you:

- Connect to a network for Windows updates.
  - i NOTE: If connecting to a secured wireless network, enter the password for the wireless network access when prompted.
- If connected to the internet, sign in with or create a Microsoft account. If not connected to the internet, create an offline account.
- On the Support and Protection screen, enter your contact details.
- 3. Locate and use Dell apps from the Windows Start menu—Recommended

### Table 1. Locate Dell apps

Dell apps	Details
	My Dell
	Centralized location for key Dell applications, help articles, and other important information about your computer. It also

## Table 1. Locate Dell apps (continued)

Dell apps	Details
	notifies you about the warranty status, recommended accessories, and software updates if available.
	<b>Dell Product Registration</b> Register your computer with Dell.
	<b>Dell Help &amp; Support</b> Access help and support for your computer.
	SupportAssistProactively checks the health of your computer's hardware and software.Image: Image: Im
	<b>Dell Update</b> Updates your computer with critical fixes and important device drivers as they become available.
	<b>Dell Digital Delivery</b> Download software applications including software that is purchased but not pre-installed on your computer.

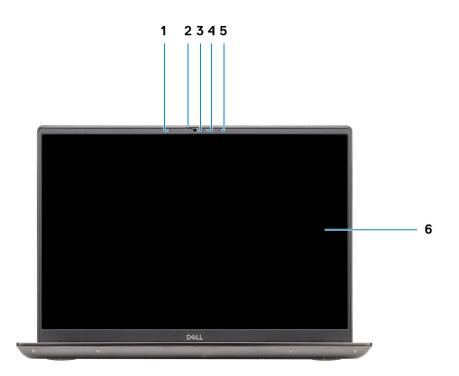


# **Chassis overview**

## **Topics:**

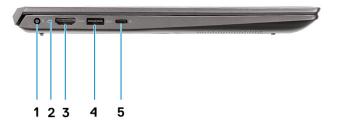
- Display view
- Left view
- Right view
- Palm-rest view
- Bottom view
- Keyboard shortcuts

# **Display view**



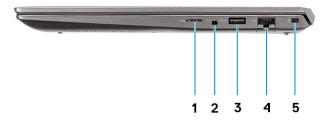
- 1. Microphone
- 2. Camera shutter
- 3. Camera
- 4. Camera-status light
- 5. Microphone
- 6. Display

## Left view



- 1. Power connector port
- 2. Power LED
- 3. HDMI 1.4b port
- 4. USB 3.2 Gen 1 Type-A port
- 5. USB 3.2 Gen 2 Type-C port with DisplayPort alt mode/Power Delivery

# **Right view**



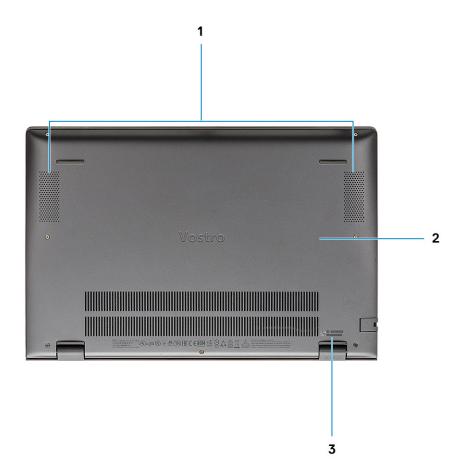
- **1.** microSD card reader
- 2. Universal audio Jack port
- 3. USB 3.2 Gen 1 Type-A port
- 4. Network port
- 5. Wedge-shaped lock slot

## **Palm-rest view**



- 1. Power button with optional fingerprint reader
- 2. Keyboard
- 3. Touchpad

## **Bottom view**



- 1. Speakers
- 2. Base cover
- 3. Service tag label

# **Keyboard shortcuts**

() NOTE: Keyboard characters may differ depending on the keyboard language configuration. Keys that are used for shortcuts remain the same across all language configurations.

#### Table 2. List of keyboard shortcuts

Keys	Description
Fn + Esc	Toggle Fn-key lock
Fn + F1	Mute audio
Fn + F2	Decrease volume
Fn + F3	Increase volume
Fn + F4	Play/Pause
Fn + F5	Keyboard backlight

## Table 2. List of keyboard shortcuts (continued)

Keys	Description
	<b>(i)</b> NOTE: Not applicable for non-backlight keyboard.
Fn + F6	Decrease screen brightness
Fn + F7	Increase screen brightness
Fn + F8	External display
Fn + F10	Print Screen
Fn + F11	Home
Fn + F12	End
Fn + Right Ctrl	Opens application menu

# System specifications

() NOTE: Offerings may vary by region. The following specifications are only those required by law to ship with your computer. For more information about the configuration of your computer, go to **Help and Support** in your Windows operating system and select the option to view information about your computer.

### **Topics:**

- Processor
- Chipset
- Operating system
- Memory
- Storage
- Ports and connectors
- Audio
- Video
- Camera
- Communications
- Media-card reader
- Power adapter
- Battery
- Dimensions and weight
- Display
- Keyboard
- Touchpad
- Fingerprint reader (optional)
- · Security
- Security Software
- Computer environment

# Processor

The following table lists the details of the processors supported by your Vostro 5402.

### Table 3. Processor

Description	Option one	Option two	Option three
Processor type	11 <sup>th</sup> Generation Intel Core i3-115G4	11 <sup>th</sup> Generation Intel Core i5-1135G7	11 <sup>th</sup> Generation Intel Core i7-1165G7
Processor wattage	15 W	15 W	15 W
Processor core count	2	4	4
Processor thread count	4	8	8
Processor speed	3 GHz to 4.1 GHz	2.4 GHz to 4.2 GHz	2.8 GHz to 4.7 GHz
Processor cache	8 MB	8 MB	12 MB
Integrated graphics	Intel UHD Graphics	Intel Iris X <sup>e</sup> Graphics	Intel Iris X <sup>e</sup> Graphics

# Chipset

### Table 4. Chipset

Description	Values
Chipset	Integrated
Processor	11 <sup>th</sup> Generation Intel Core i3/i5/i7 Processors
DRAM bus width	64-bit
Flash EPROM	16 MB / 8 MB
PCle bus	Up to Gen 3

## **Operating system**

- Windows 10 Pro (64-bit)
- Ubuntu

# Memory

### Table 5. Memory specifications

Description	Values	
Slots	Two SO-DIMM slots	
Туре	DDR4	
Speed	3200 MHz	
Maximum memory	32 GB	
Minimum memory	4 GB	
Configurations supported	<ul> <li>4 GB, 1 x 4 GB, DDR4, 3200 MHz</li> <li>8 GB, 1 x 8 GB, DDR4, 3200 MHz</li> <li>8 GB, 2 x 4 GB, Dual-Channel DDR4, 3200 MHz</li> <li>12 GB, 1 x 4 GB + 1 x 8 GB, DDR4, 3200 MHz</li> <li>16 GB, 1 x 16 GB, DDR4, 3200 MHz</li> <li>16 GB, 2 x 8 GB, Dual-Channel DDR4, 3200 MHz</li> <li>32 GB, 2 x 16 GB, Dual-Channel DDR4, 3200 MHz</li> </ul>	

# Storage

Your computer supports one of the following configurations:

- M.2 drive x1
- M.2 drive x2

The primary drive of your computer varies with the storage configuration. For computers with two M.2 drives, the SSD-1 M.2 drive is the primary drive.

The primary drive of your computer varies with the storage configuration. For computers with two M.2 drives, the SSD-1 M.2 drive is the primary drive.

## () NOTE:

Vostro 5402 supports the following storage configurations:

- M.2 slot one: One PCIe Gen3 x4 NVMe solid-state drive (M.2 2230 or M.2 2280).
- M.2 slot two: One PCIe Gen3 x4 NVMe or SATA solid-state drive (M.2 2230 or M.2 2280) or one Intel Optane Memory H10 with solid state storage.

### Table 6. Storage specifications

Storage type	Interface type	Capacity
M.2 2230 solid-state drive	Gen 3 PCIe x4 NVMe	128 GB, 256 GB, 512 GB
M.2 2280 solid-state drive	Gen 3 PCIe x4 NVMe	256 GB, 512 GB, 1 TB, 2 TB
M.2 2280, PCIe QLC NVMe, solid-state drive	Gen 3 PCIe x4 NVMe	512 GB
M.2 2280, PCIe NVMe, Intel Optane Storage	Gen 3 PCIe x4 NVMe	512 GB

## **Ports and connectors**

### Table 7. External ports and connectors

Description	Values
External:	
Network	One RJ-45 port 10/100/1000 Mbps
USB	<ul> <li>One USB 3.2 Gen 2 Type-C port with DisplayPort alt mode/Power Delivery</li> <li>Two USB 3.2 Gen 1 Type-A ports</li> </ul>
Audio	One Universal audio Jack
Video	One HDMI 1.4b port
Media card reader	One microSD card reader
Docking port	Not supported
Power adapter port	One DC-in port
Security	One wedge-shaped lock

### Table 8. Internal ports and connectors

Description	Values
Internal:	
M.2	<ul> <li>One M.2 2230 slot for Wi-Fi and Bluetooth card</li> <li>One M.2 2230/2280 slot for solid-state drive/Intel Optane</li> <li>One M.2 2280 slot for solid-state drive/Intel Optane</li> </ul>
	(i) <b>NOTE:</b> To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626.
	() NOTE: Hybrid Optane SSD can only be installed in SSD slot two and does not support dual TG.

# Audio

### Table 9. Audio specifications

Description		Values	
Controller		Realtek ALC3204	
Stereo conversion		Supported	
Internal interface		High definition audio	
External interface		Universal Audio Jack	
Speakers		Тwo	
Internal speaker amplifier		Supported (audio codec integrated)	
External volume controls		Keyboard shortcut controls	
Speaker output:			
	Average	2 W	
Peak		2.5 W	
Subwoofer output		Not supported	
Microphone		Dual-array microphones	

# Video

## Table 10. Discrete graphics specifications

Discrete graphics		
Controller	Memory size	Memory Type
NVIDIA GeForce MX330	2 GB	GDDR5
NVIDIA GeForce MX350	2 GB	GDDR5

### Table 11. Integrated graphics specifications

Integrated graphics		
Controller	Memory size	Processor
Intel UHD Graphics	Shared system memory	11 <sup>th</sup> Generation Intel Core i3
Intel Iris X <sup>e</sup> Graphics	Shared system memory	11 <sup>th</sup> Generation Intel Core i5/i7

## Camera

### Table 12. Camera specifications

Description	Values
Number of cameras	One

### Table 12. Camera specifications (continued)

Description		Values	
Туре		HD RGB camera	
Location		Front camera	
Sensor type		CMOS sensor technology	
Resolution:			
	Still image	0.92 megapixel	
Video		1280 x 720 (HD) at 30 fps	
Diagonal viewing angle		74.90 degrees	

## Communications

## Ethernet

## Table 13. Ethernet specifications

Description	Values
Model number	Realtek RTL8111
Transfer rate	10/100/1000 Mbps

## Wireless module

### Table 14. Wireless module specifications

Description		Values		
Model number	Intel Wireless-AC 9462	Intel Wi-Fi 6 AX201	Qualcomm QCA61x4A	
Transfer rate	Up to 433 Mbps	Up to 2400 Mbps	Up to 867 Mbps	
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz	2.4 GHz/5 GHz	
Wireless standards	<ul> <li>Wi-Fi 802.11a/b/g</li> <li>Wi-Fi 4 (Wi-Fi 802.11n)</li> <li>Wi-Fi 5 (Wi-Fi 802.11ac)</li> </ul>	<ul> <li>Wi-Fi 802.11a/b/g</li> <li>Wi-Fi 4 (Wi-Fi 802.11n)</li> <li>Wi-Fi 5 (Wi-Fi 802.11ac)</li> <li>Wi-Fi 6 (Wi-Fi 802.11ax)</li> </ul>	<ul> <li>Wi-Fi 802.11a/b/g</li> <li>Wi-Fi 802.11n</li> <li>Wi-Fi 802.11ac</li> </ul>	
Encryption	<ul> <li>64-bit/128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>	<ul> <li>64-bit/128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>	<ul> <li>64-bit/128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>	
Bluetooth	Bluetooth 5.0	Bluetooth 5.1	Bluetooth 5.0	

# **Media-card reader**

### Table 15. Media-card reader specifications

Description	Values	
Туре	One microSD card	
Cards supported	Secure Digital (SD)	

# **Power adapter**

### Table 16. Power adapter specifications

Description		v	alues
Туре		45 W	65 W
Diam	eter (connector)	4.50 mm x 2.90 mm	4.50 mm x 2.90 mm
Input	t voltage	100 VAC x 240 VAC	100 VAC x 240 VAC
Input frequency		50 Hz x 60 Hz	50 Hz x 60 Hz
Input current (maximum)		1.30 A	1.6 A / 1.7 A
Output current (continuous)		2.31 A (continuous)	3.34 A (continuous)
Rated output voltage		19.50 VDC	19.50 VDC
Temperature range:			
	Operating	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
	Storage	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)

## Battery

## Table 17. Battery specifications

Description		Values	
Туре		40 WHr, 3-Cell Smart Lithium-ion	53 WHr, 4-cell Smart Lithium-ion
Voltage		11.25 VDC	15.0 VDC
Weight (maximum	n)	0.18 kg (0.40 lb)	0.24 kg (0.53 lb)
Dimensions:			
Heigh	nt	5.75 mm (0.23 in.)	5.75 mm (0.23 in.)
Width	٦	184.10 mm (7.25 in.)	239.10 mm (9.41 in.)
Depth		90.73 mm (3.57 in.)	90.73 mm (3.57 in.)
Temperature range:			
Opera	ating	0°C to 35°C (32°F to 95°F)	0°C to 35°C (32°F to 95°F)

### Table 17. Battery specifications (continued)

Description		Valu	les	
	Storage	-40°C to 65°C (-40°F to 149°F)	-40°C to 65°C (-40°F to 149°F)	
Operating time		Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	
Charging ti	me (approximate)	4 hours (when the computer is off)	4 hours (when the computer is off)	
		() NOTE: Control the charging time, duration, start and end time, and so on, using the Dell Power Manager application. For more information on the Dell Power Manager, see, <i>Me and</i> <i>My Dell</i> on www.dell.com/	() NOTE: Control the charging time, duration, start and end time, and so on, using the Dell Power Manager application. For more information on the Dell Power Manager, see, <i>Me</i> <i>and My Dell</i> on www.dell.com/	
Coin-cell battery		2032	2032	
Operating time		Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	

# **Dimensions and weight**

### Table 18. Dimensions and weight

Description	Values
Height:	
Front	16.74 mm (0.65 in.)
Rear	17.90 mm (0.70 in.)
Width	321.30 mm (12.64 in.)
Depth	216.20 mm (8.51 in.)
Weight	<ul> <li>1.41 kg (3.10 lb)</li> <li><b>NOTE:</b> The weight of your computer depends on the configuration ordered and the manufacturing variability.</li> </ul>

# Display

### Table 19. Display specifications

Description	Values	
Туре	Full High Definition (FHD)	Full High Definition (FHD)
Panel technology	Wide Viewing Angle (WVA)	Wide Viewing Angle (WVA)
Luminance (typical)	300 Nits	220 Nits
Dimensions (Active area):		

Description		Values	Values	
	Height	173.99 mm (6.85 in.)	173.99 mm (6.85 in.)	
	Width	309.35 mm (12.18 in.)	309.35 mm (12.18 in.)	
	Diagonal	355.60 mm (14 in.)	355.60 mm (14 in.)	
Native re	esolution	1920 × 1080	1920 × 1080	
Megapix	rels	2.0736	2.0736	
Color ga	mut	72% NTSC typical	45% NTSC typical	
Pixels pe	er inch (PPI)	157	157	
Contrast	t ratio (min)	600:1	500:1	
Respons	se time (max)	35 ms	35 ms	
Refresh	rate	60 Hz	60 Hz	
Horizont	tal view angle	80 min	80 min	
Vertical	view angle	80 min	80 min	
Pixel pitch		0.161 x 0.161 mm	0.161 x 0.161 mm	
Power consumption (maximum)		4.5 W	3.5 W	
Anti-glare vs glossy finish		Anti-glare	Anti-glare	
Touch options		No	No	

## Table 19. Display specifications (continued)

# Keyboard

## Table 20. Keyboard specifications

Description	Values
Туре	<ul><li>Standard keyboard</li><li>Backlit keyboard</li></ul>
Layout	QWERTY
Number of keys	<ul> <li>United States and Canada: 81 keys</li> <li>United Kingdom: 82 keys</li> <li>Japan: 85 keys</li> </ul>
Size	X=18.7 mm key pitch Y=18.05 mm key pitch

# Touchpad

### Table 21. Touchpad specifications

Description		Values
Resolution:		
	Horizontal	3438
	Vertical	2170
Dimensions:		
	Horizontal	115 mm (4.53 in.)
	Vertical	70 mm (2.76 in.)

## **Touchpad gestures**

For more information about touchpad gestures for Windows 10, see the Microsoft knowledge base article 4027871 at support.microsoft.com.

## **Fingerprint reader (optional)**

### Table 22. Fingerprint reader specifications

Description	Values
Sensor technology	Capacitive
Sensor resolution	500 PPI
Sensor area	4.06 mm x 3.25 mm
Sensor pixel size	80 x 64 Pixels

# Security

### Table 23. Security specifications

Features	Specifications
Trusted Platform Module (TPM) 2.0	Integrated on system board
Fingerprint reader	Optional
Wedge-shaped lock slot	Standard

# **Security Software**

### Table 24. Security Software specifications

Specifications	
McAfee Small Business Security 30-day Trial	

### Table 24. Security Software specifications (continued)

Specifications	
McAfee Small Business Security 12-month subscription, Digitally Delivered	
McAfee Small Business Security 24-month subscription, Digitally Delivered	
McAfee Small Business Security 36-month subscription, Digitally Delivered	

# **Computer environment**

Airborne contaminant level: G1 as defined by ISA-S71.04-1985

#### Table 25. Computer environment

Description	Operating	Storage
Temperature range	0°C to 35°C (32°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	10% to 90% (non-condensing)	0% to 95% (non-condensing)
Vibration (maximum)*	0.66 GRMS	1.30 GRMS
Shock (maximum)	110 G†	160 G†
Altitude (maximum)	-15.2 m to 3048 m (4.64 ft to 5518.4 ft)	-15.2 m to 10668 m (4.64 ft to 19234.4 ft)

 $\ast$  Measured using a random vibration spectrum that simulates user environment.

 $\dagger$  Measured using a 2 ms half-sine pulse when the hard drive is in use.

# Software

4

This chapter details the supported operating systems along with instructions on how to install the drivers.

### **Topics:**

Downloading Windows drivers

# **Downloading Windows drivers**

- 1. Turn on the notebook.
- 2. Go to Dell.com/support.
- 3. Click Product Support, enter the Service Tag of your notebook, and then click Submit.

i NOTE: If you do not have the Service Tag, use the auto detect feature or manually browse for your notebook model.

#### 4. Click Drivers and Downloads.

- 5. Select the operating system installed on your notebook.
- 6. Scroll down the page and select the driver to install.
- 7. Click Download File to download the driver for your notebook.
- 8. After the download is complete, navigate to the folder where you saved the driver file.
- 9. Double-click the driver file icon and follow the instructions on the screen.



CAUTION: Unless you are an expert computer user, do not change the settings in the BIOS Setup program. Certain changes can make your computer work incorrectly.

**NOTE:** Before you change BIOS Setup program, it is recommended that you write down the BIOS Setup program screen information for future reference.

Use the BIOS Setup program for the following purposes:

- Get information about the hardware installed in your computer, such as the amount of RAM and the size of the hard drive.
- Change the system configuration information.
- Set or change a user-selectable option, such as the user password, type of hard drive installed, and enabling or disabling base devices.

#### **Topics:**

- Boot menu
- Navigation keys
- Boot Sequence
- BIOS setup
- Updating the BIOS in Windows
- System and setup password

## **Boot menu**

Press <F12> when the Dell logo appears to initiate a one-time boot menu with a list of the valid boot devices for the system. Diagnostics and BIOS Setup options are also included in this menu. The devices that are listed on the boot menu depend on the bootable devices in the system. This menu is useful when you are attempting to boot to a particular device or to bring up the diagnostics for the system. Using the boot menu does not make any changes to the boot order stored in the BIOS.

The options are:

#### UEFI Boot Devices:

- Windows Boot Manager
- UEFI Hard Drive
- Onboard NIC (IPV4)
- Onboard NIC (IPV6)
- Pre-Boot Tasks:
  - BIOS Setup
  - Diagnostics
  - BIOS Update
  - SupportAssist OS Recovery
  - BIOS Flash Update Remote
  - Device Configuration

## **Navigation keys**

**NOTE:** For most of the System Setup options, changes that you make are recorded but do not take effect until you restart the system.

Keys	Navigation
Up arrow	Moves to the previous field.
Down arrow	Moves to the next field.
Enter	Selects a value in the selected field (if applicable) or follow the link in the field.
Spacebar	Expands or collapses a drop-down list, if applicable.
Tab	Moves to the next focus area.
Esc	Moves to the previous page until you view the main screen. Pressing Esc in the main screen displays a message that prompts you to save any unsaved changes and restarts the system.

# **Boot Sequence**

Boot sequence enables you to bypass the System Setup-defined boot device order and boot directly to a specific device (for example: optical drive or hard drive). During the Power-on Self-Test (POST), when the Dell logo appears, you can:

- Access System Setup by pressing F2 key
- Bring up the one-time boot menu by pressing F12 key.

The one-time boot menu displays the devices that you can boot from including the diagnostic option. The boot menu options are:

- Removable Drive (if available)
- STXXXX Drive
   (i) NOTE: XXXX denotes the SATA drive number.
- Optical Drive (if available)
- SATA Hard Drive (if available)
- Diagnostics
   NOTE: Choosing Diagnostics, displays the SupportAssist diagnostics screen.

The boot sequence screen also displays the option to access the System Setup screen.

# **BIOS setup**

**NOTE:** Depending on the tabletcomputerlaptop and its installed devices, the items listed in this section may or may not appear.

## Overview

#### Table 26. Overview

Option	Description	
System Information	This section lists the primary hardware features of your computer.	
	The options are:	
	System Information	
	• BIOS version	
	○ Service Tag	
	• Asset Tag	
	• Manufacture Date	
	• Ownership Date	
	<ul> <li>Express Service Code</li> </ul>	
	<ul> <li>Ownership Tag</li> </ul>	

### Table 26. Overview

Option	Description	
	<ul><li>Signed Firmware Update</li><li>Battery</li></ul>	
	<ul> <li>Primary</li> <li>Battery Level</li> <li>Battery State</li> <li>Health</li> <li>AC Adapter</li> <li>Processor Information</li> <li>Processor Type</li> <li>Maximum Clock Speed</li> <li>Minimum Clock Speed</li> <li>Current Clock Speed</li> <li>Core Count</li> <li>Processor ID</li> <li>Processor L2 Cache</li> <li>Processor L3 Cache</li> <li>Microcode Version</li> <li>Intel Hyper-Threading Capable</li> <li>64-Bit Technology</li> <li>Memory Installed</li> <li>Memory Available</li> <li>Memory Speed</li> </ul>	
	<ul> <li>Memory Channel Mode</li> <li>Memory Technology</li> <li>DIMM_Slot 1</li> <li>DIMM_Slot 2</li> </ul>	
	<ul> <li>Device Information</li> <li>Panel Type</li> <li>Video Controller</li> <li>Video Memory</li> <li>Wi-Fi Device</li> <li>Native Resolution</li> <li>Video BIOS Version</li> <li>Audio Controller</li> <li>Bluetooth Device</li> <li>LOM MAC Address</li> <li>dGPU Video Controller</li> </ul>	

# **Boot configuration**

## Table 27. Boot configuration

Option	Description
Boot Sequence	Allows you to change the order in which the computer attempts to find an operating system. The options are:
	<ul><li>Windows Boot Manager</li><li>UEFI Hard Drive</li></ul>

## Table 27. Boot configuration (continued)

Option	Description
	<ul> <li>Onboard NIC (IPV4)</li> <li>Onboard NIC (IPV6)</li> <li>NOTE: Legacy Boot mode is not supported on this platform.</li> </ul>
Secure Boot	Secure Boot helps ensure your system boots using only validated boot software.
	<b>Enable Secure Boot</b> —By default, this option is disabled.
	(i) <b>NOTE:</b> The system has to be in UEFI boot mode to enable <b>Enable Secure Boot</b> .
Secure Boot Mode	Changes to the Secure Boot operation mode modifies the behavior of Secure Boot to allow evaluation of UEFI driver signatures.
	The options are:
	<ul> <li>Deployed Mode—By default, this option is enabled.</li> <li>Audit Mode</li> </ul>
Expert Key Management	Allows you to enable or disable Expert Key Management.
	<b>Enable Custom Mode</b> —By default, this option is disabled.
	The Custom Mode Key Management options are:
	• <b>PK</b> —By default, this option is enabled.
	• KEK
	• db
	• dbx

## **Integrated Devices**

## Table 28. Integrated device options

Option	Description
Date/Time	Allows you to set the date and time. The change to the system date and time takes effect immediately.
Camera	Allows you to enable or disable camera. Enable Camera - This option is enabled by default.
Audio	<ul> <li>Allows you to turn off all integrated audio. By default, the Enable Audio option is selected.</li> <li>Allows you to enable or disable the integrated audio or microphone and speaker separately. By default, the Enable Audio option is selected.</li> <li>The options are:</li> <li>Enable Microphone</li> </ul>
	Enable Internal Speaker
USB Configuration	Allows you to enable or disable the internal or integrated USB configuration. The options are:

## Table 28. Integrated device options (continued)

Option	Description
	<ul> <li>Enable USB Boot Support</li> <li>Enable External USB Port</li> <li>By default, all the options are enabled.</li> </ul>
Disable USB4 PCIE Tunneling	By default, the <b>Disable USB4 PCIE Tunneling</b> is disabled.

## Storage

## Table 29. Storage options

Option	Description
SATA/NVMe Operation	Allows you to set the operating mode of the integrated storage device controller.
	The options are:
	<ul> <li>Disabled</li> <li>AHCI/NVMe</li> <li>RAID On—By default, the RAID On option is enabled.</li> </ul>
Storage Interface	Allows you to enable or disable various drives on board.
	The options are:
	M.2 PCIe SSD-0
	M.2 PCIe SSD-1
	By default, all the options are enabled.
SMART Reporting	This field controls whether hard drive errors for integrated drives are reported during system startup. This technology is part of the Self Monitoring Analysis and Reporting Technology (SMART) specification. By default, the <b>Enable SMART Reporting</b> option is disabled.
Drive Information	Provides information about drive type and device.

## Display

## Table 30. Display options

Option	Description
Display Brightness	Allows you to set the screen brightness when running on battery and AC power.
	The options are:
	<ul> <li>Brightness on battery power - By default, set to 50.</li> <li>Brightness on AC power - By default, set to 100.</li> </ul>
EcoPower	<b>EcoPower</b> increases the battery life by reducing the display brightness when appropriate.
	By default <b>Enable EcoPower</b> is enabled.
Full Screen Logo	Displays full screen logo when the image matches screen resolution.

## Table 30. Display options (continued)

Option	Description
	By default, all the option is disabled.

## **Connection options**

### Table 31. Connection

Option	Description
Integrated NIC	Integrated NIC controls the onboard LAN controller. It allows pre-OS and early operating system networking features to use any enabled NICs when UEFI networking protocols are installed and available.
	The options are:
	<ul> <li>Disabled</li> <li>Enabled</li> <li>Enabled with PXE - This option is enabled by default.</li> </ul>
Wireless Device Enable	Allows you to enable or disable the internal wireless devices.
	The options are:
	<ul><li>WLAN</li><li>Bluetooth</li></ul>
	Both the options are enabled by default.
Enable UEFI Network Stack	Allows you to control the onboard LAN controller. It allows pre-OS and early operating system networking features to use any enabled NICs when UEFI networking protocols are installed and available.
	<b>Enable UEFI Network Stack</b> - This option is enabled by default.

## **Power management**

### Table 32. Power Management

Option	Description
Battery Configuration	Allows the system to run on battery during peak power usage hours.
	The options are:
	<ul> <li>Adaptive—enabled by default</li> <li>Standard</li> </ul>
	<ul> <li>ExpressCharge</li> <li>Primarily AC Use</li> <li>Custom</li> </ul>
	() NOTE: If Custom Charge is selected, you can also configure Custom Charge Start and Custom Charge Stop.
Advanced Configuration	This option enables you to maximize the battery health.
	By default, the <b>Enable Advanced Battery Charge Mode</b> option is disabled.
	(i) NOTE: The user can charge battery using feature <b>Beginning of Day</b> and <b>Work Period</b> .
	By default, <b>Work Period</b> is disabled.

## Table 32. Power Management (continued)

Option	Description
	Use ExpressCharge for accelerated battery charging.
Peak Shift	Allows the system to run on battery during peak power usage hours.  Peak Shift - By default, this option is disabled.
Thermal Management	Allows cooling of fans and the processor heat management to adjust system performance, noise, and temperature. The options are: • Optimized—enabled by default • Cool • Quiet • Ultra Performance
USB Wake Support	Wake on Dell       Allows you to connect a Dell USB-C Dock to wake the system from standby mode.         By default, the option       Wake on Dell USB-C Dock is enabled.         (i)       NOTE: These features are only functional when the AC power adapter is connected. If the AC power adapter is removed before Standby, the BIOS removes power from all USB ports to conserve battery power.
Block Sleep	This option enables you to block entering to sleep (S3) mode in operating system environment. By default, the <b>Block Sleep</b> option is disabled.         (i) NOTE: When Block Sleep is enabled, the system does not go to sleep. Intel Rapid Start gets disabled automatically, and the operating system power option remains blank if it was set to Sleep.
Lid Switch	Allows you to disable the lid switch. The options are: • Enable Lid Switch—enabled by default • Power On Lid Open—enabled by default
Intel Speed Shift technology	Allows you to enable or disable the Intel Speed Shift Technology support. By default, <b>Intel Speed</b> <b>Shift technology</b> is enabled. Enabling this option allows the operating system to select appropriate processor performance.

## Security

### Table 33. Security

Option	Description
TPM 2.0 Security	Allows you to enable or disable the Trusted Platform Module (TPM).
	The options are:
	<ul> <li>TPM 2.0 Security On—This option is enabled by default.</li> <li>PPI Bypass for Enable Commands</li> </ul>

### Table 33. Security (continued)

Option	Description
	<ul> <li>PPI Bypass for Disable Commands</li> <li>PPI Bypass for Clear Command</li> <li>Attestation Enable—This option is enabled by default.</li> <li>Key Storage Enable—This option is enabled by default.</li> <li>SHA-256—This option is enabled by default.</li> <li>Clear</li> <li>TPM State—This option is enabled by default.</li> </ul>
SMM Security Mitigation	Allows you to enable or disable additional UEFI SMM Security Mitigation protection. SMM Security Mitigation - By default, this option is enabled.
Data Wipe on Next Boot	Allows BIOS to queue up data wipe cycle for storage devices connected to the motherboard on the next reboot. Start Data Wipe - By default, this option is disabled. (i) NOTE: Secure Wipe operation deletes information in a way that it cannot be reconstructed.
Absolute	<ul> <li>This field allows you to Enable, Disable, or Permanently Disable the BIOS module interface of the optional Absolute Persistence Module service from Absolute® Software.</li> <li>The options are:</li> <li>Enabled—This option is enabled by default.</li> <li>Disabled</li> <li>Permanently Disable Absolute</li> </ul>
UEFI Boot Path Security	Controls whether the system prompts the user to enter the admin password (if set) when booting to a UEFI boot path device from the F12 boot menu. The options are: • Never • Always • Always Except Internal HDD—This option is enabled by default. • Always Except Internal HDD&PXE

## Password

### Table 34. Security

Option	Description	
Admin Password	Allows you to set, change, or delete the administrator (admin) password.	
	The entries to set password are:	
	<ul> <li>Enter the old password:</li> <li>Enter the new password:</li> </ul>	
	Press <b>Enter</b> once you enter the new password and again press <b>Enter</b> to confirm the new password.	
	(i) <b>NOTE:</b> Deleting the admin password deletes the system password (if set). The admin password can also be used to delete hard drive password. For this reason, you cannot set an admin password if a system password or hard drive password is set. Hence, an admin password has to be set first if the admin password has to be used with system password and/or hard drive password.	
System Password	Allows you to set, change, or delete the system password.	

### Table 34. Security (continued)

Option	Description			
	The entries to set	The entries to set password are:		
	<ul> <li>Enter the old password:</li> <li>Enter the new password:</li> </ul>			
	Press <b>Enter</b> once password.	Press <b>Enter</b> once you enter the new password and again press <b>Enter</b> to confirm the new password.		
Password Configuration	Allows you to cor	nfigure a password.		
	Upper Case Letter	When enabled, this field reinforces password must contain at least one upper capital letter.		
	Lower Case Letter	When enabled, this field reinforces password must contain at least one lower capital letter.		
	Digit	When enabled, this field reinforces password must contain at least one- digit number.		
	Special Character	When enabled, this field reinforces password must contain at least one special character.		
	(i) NOTE: These options by default are disabled.			
	Minimum Characters	Defines the number of characters allowed for a password. Min = 4		
Password Bypass	during a system r The options are:	nis option is enabled by default.		
Password Changes	Allows you to change the system password and hard drive password without the need of administrator password.			
	Enable Non-Admin Password Changes - By default, this option is disabled.			
Admin Setup Lockout	Allows the administrator to control how the user can access BIOS setup.			
	Enable Admin Setup Lockout - By default, this option is disabled.			
	() NOTE:			
	• If the admin password is set and <b>Enable Admin Setup Lockout</b> is enabled, you cannot view the BIOS setup (using F2 or F12) without the admin password.			
		nin password is set and <b>Enable Admin Setup Lockout</b> is disabled, the BIOS be entered and items that are viewed in Locked mode.		
Master Password Lockout	Allows you to disa	able master password support.		
	Enable Master Password Lockout - By default, this option is disabled.			
	(i) NOTE: The H	lard Disk password has to be cleared before the settings can be changed.		

## Update and Recovery

## Table 35. Update and recovery

Option	Description
UEFI Capsule Firmware Updates	Allows you to update the system BIOS through UEFI capsule update packages.
opulles	Enable UEFI Capsule Firmware Updates - By default, this option is enabled.
BIOS Recovery from Hard Drive	Allows you to recover BIOS on the primary hard drive or USB drive in corrupted conditions.
	BIOS Recovery from Hard Drive - By default, this option is enabled.
	<b>(i) NOTE:</b> BIOS Recovery from hard drives is not available for Self-Encrypting Drives (SED).
BIOS Downgrade	Allows you to control flashing of the system firmware to previous versions.
	Allow BIOS Downgrade - By default, this option is enabled.
SupportAssist OS Recovery	Allows you to enable or disable the boot flow for SupportAssist OS Recovery if there are certain system errors.
	SupportAssist OS Recovery - By default, this option is enabled.
	(i) <b>NOTE:</b> If <b>SupportAssist OS Recovery</b> setup option is disabled, then all the automatic boot flow for SupportAssist OS Recovery tool is disabled.
BIOSConnect	Allows you to recover cloud service operating system if the main operating system and/or local service operating system fails to boot with the number of failures equal to or greater than the value specified by the Auto operating system Recovery Threshold setup.
	BIOSConnect - By default, this option is enabled.
Dell Auto OS Recovery Threshold	The Auto OS Recovery threshold setup options control the automatic flow for SupportAssist System Resolution Console and for Dell OS Recovery Tool.
	The options are:
	• Off
	<ul> <li>1</li> <li>2 - Default</li> </ul>
	• 3
	1

## System management

### Table 36. System management

Description	
Displays the service tag of your computer.	
An Asset Tag is a string of 64 characters that are used by IT administrator to uniquely identify a particular system. On an asset tag is set, it cannot be changed.	
Allows you to enable or disable the computer from turning on automatically when an AC adapter is connected.	
Wake on AC	
By default, this option is disabled.	
This setting allows a system to automatically power on for defined days/time.	
The options are:	

## Table 36. System management (continued)

Option	Description	
	<ul> <li>Disabled - This option is enabled by default.</li> <li>Every Day</li> <li>Weekdays</li> <li>Select Days</li> </ul>	

## Keyboard

### Table 37. Keyboard

Option	Description
Numlock Enable	Allows you to enable or disable Numlock function when the system boots.
	Enable Numlock
	This option is enabled by default.
Fn Lock Options	Allows you to change the function key settings.
	Fn Lock Mode
	This option is enabled by default.
	The options are:
	<ul> <li>Lock Mode Standard</li> <li>Lock Mode Secondary- This option is enabled by default.</li> </ul>
Keyboard Illumination	Allows you to set keyboard illumination settings using hotkeys <fn>+<f5> during normal system operation.</f5></fn>
	The options are:
	<ul> <li>Disabled</li> <li>Dim</li> <li>Bright- This option is enabled by default.</li> </ul>
	(i) NOTE: The keyboard illumination brightness is set at 100%.
Keyboard Backlight Timeout on AC	This feature defines the timeout value for the keyboard backlight when an AC adapter is plugged in the system.
	The options are:
	• 5 seconds
	10 seconds - This option is enabled by default.
	<ul> <li>15 seconds</li> <li>30 seconds</li> </ul>
	• 1 minute
	• 5 minutes
	<ul> <li>15 minutes</li> <li>Never</li> </ul>
	(i) <b>NOTE:</b> If <b>Never</b> is selected, the backlight stays on always when the system has AC adapter plugged in.
Keyboard Backlight Timeout on Battery	This feature defines the timeout value for the keyboard backlight when the system is running only on battery power.
	The options are:
	● 5 seconds

## Table 37. Keyboard (continued)

Option	Description
	<ul> <li>10 seconds - This option is enabled by default.</li> <li>15 seconds</li> <li>30 seconds</li> <li>1 minute</li> <li>5 minutes</li> <li>15 minutes</li> <li>Never</li> <li>(i) NOTE: If Never is selected, the backlight stays on always when the system is running on</li> </ul>
	() NOTE: If Never is selected, the backlight stays on always when the system is running on battery power.

# Pre-boot behavior

## Table 38. Pre-boot behavior

Option	Description	
Adapter Warnings	This option displays warning messages during boot when adapters with little power capacity are detected.	
	Enable Adapter Warnings—enabled by default	
Warnings and Errors	This option causes the boot process to only pause when warnings and errors are detected rather than stop, prompt, and wait for user input. This feature is useful where the system is being remotely managed.	
	Select one of the following options:	
	<ul> <li>Prompt on Warnings and Errors—enabled by default</li> <li>Continue on Warnings</li> </ul>	
	Continue on Warnings and Errors	
	<b>NOTE:</b> Errors deemed critical to the operation of the system hardware always stop the system.	
USB-C Warnings	This option enables or disables dock warning messages.	
	Enable Dock Warning Messages — enabled by default.	
Fastboot	This option allows you to configure the speed of UEFI boot process.	
	Select one of the following options:	
	Minimal	
	Thorough—enabled by default	
	• Auto	
Extend BIOS POST Time	This option allows you to configure the BIOS POST load time.	
	Select one of the following options:	
	• 0 seconds—enabled by default.	
	• 5 seconds	
	• 10 seconds	
Mouse/Touchpad	This option defines how the system handles mouse and touchpad input.	
	Select one of the following options:	
	Serial Mouse	
	PS/2 Mouse	
	• Touchpad and PS/2 Mouse—enabled by default.	

## Virtualization support

## Table 39. Virtualization Support

Option	Description	
Intel Virtualization Technology	This option specifies whether the system can run on a Virtual Machine Monitor (VMM). By default, the <b>Enable Intel Virtualization Technology (VT)</b> option is enabled.	
VT for Direct I/O	This option specifies whether the system can perform Virtualization technology for direct I/O; an Intel method for virtualization for memory map I/O. By default, the <b>Enable Intel VT for Direct I/O</b> option is enabled.	

## Performance

## Table 40. Performance

Option	Description
Multi Core Support	This field specifies whether the process has one or all cores enabled. The default value is set to the maximum number of cores.
	<ul> <li>All Cores — This option is enabled by default.</li> <li>1</li> <li>2</li> <li>3</li> </ul>
Intel SpeedStep	This feature allows the system to dynamically adjust processor voltage and core frequency, decreasing average power consumption and heat production.
	Enable Intel SpeedStep Technology
	This option is enabled by default.
C-States Control	This feature allows you to enable or disable the ability of the CPU to enter and exit low-power states.
	Enable C-state control
	This option is enabled by default.
Enable Adaptive C-states for Discrete Graphics	This feature allows the system to dynamically detect high usage of discrete graphics and adjust system parameters for higher performance during that time period.
	Enable Adaptive C-states for Discrete Graphics
	This option is enabled by default.
Intel Turbo Boost Technology	This option allows you to enable or disable the Intel TurboBoost mode of the processor.
	Enable Intel Turbo Boost Technology
	This option is enabled by default.
Intel Hyper-Threading Technology	This option allows you to enable or disable the HyperThreading in the processor.
	Enable Intel Hyper-Threading Technology
	This option is enabled by default.

## System logs

### Table 41. System Logs

Option	Description
BIOS Event Log	Allows you to either keep and clear the BIOS event log.
	Clear BIOS Event Log
	The options are:
	<ul> <li>Keep - This option is enabled by default.</li> <li>Clear</li> </ul>
Thermal Event Log	Allows you to either keep and clear the Thermal event log.
	Clear Thermal Event Log
	The options are:
	<ul> <li>Keep - This option is enabled by default.</li> <li>Clear</li> </ul>
Power Event Log	Allows you to either keep and clear the Power event log.
	Clear Power Event Log
	The options are:
	<ul> <li>Keep - This option is enabled by default.</li> <li>Clear</li> </ul>

# **Updating the BIOS in Windows**

It is recommended to update your BIOS (System Setup) when you replace the system board or if an update is available. For laptops, ensure that your computer battery is fully charged and connected to a power before initiating a BIOS update.

**NOTE:** If BitLocker is enabled, it must be suspended prior to updating the system BIOS, and then re enabled after the BIOS update is completed.

For more information about this subject, see Knowledge Article: How to Enable or Disable BitLocker with TPM in Windows.

- 1. Restart the computer.
- 2. Go to Dell.com/support.
  - Enter the Service Tag or Express Service Code and click Submit.
  - Click **Detect Product** and follow the instructions on screen.
- 3. If you are unable to detect or find the Service Tag, click Choose from all products.
- 4. Choose the Products category from the list.

(i) NOTE: Choose the appropriate category to reach the product page.

- 5. Select your computer model and the Product Support page of your computer appears.
- 6. Click **Get drivers** and click **Drivers and Downloads**. The Drivers and Downloads section opens.
- 7. Click Find it myself.
- 8. Click **BIOS** to view the BIOS versions.
- 9. Identify the latest BIOS file and click **Download**.
- Select your preferred download method in the Please select your download method below window, click Download File. The File Download window appears.
- 11. Click Save to save the file on your computer.
- 12. Click  ${\bf Run}$  to install the updated BIOS settings on your computer.

Follow the instructions on the screen.

## Updating BIOS on systems with BitLocker enabled

CAUTION: If BitLocker is not suspended before updating the BIOS, the next time you reboot the system it will not recognize the BitLocker key. You will then be prompted to enter the recovery key to progress and the system will ask for this on each reboot. If the recovery key is not known, this can result in data loss or an unnecessary operating system reinstall. For more information about this subject, see Knowledge Article: Updating the BIOS on Dell Systems With BitLocker Enabled

## Updating the Dell BIOS in Linux and Ubuntu environments

If you want to update the system BIOS in a Linux environment, such as Ubuntu, see Update the Dell BIOS in a Linux or Ubuntu environment.

## Flashing the BIOS from the F12 One-Time boot menu

Updating your system BIOS using a BIOS update .exe file that is copied to a FAT32 USB drive and booting from the F12 one time boot menu.

#### **BIOS Update**

You can run the BIOS update file from Windows using a bootable USB drive or you can also update the BIOS from the F12 One-Time boot menu on the system.

Most Dell systems built after 2012 have this capability and you can confirm by booting your system to the F12 One-Time Boot Menu to see if **BIOS UPDATE** is listed as a boot option for your system. If the option is listed, then the BIOS supports this BIOS update option.

(i) NOTE: Only systems with BIOS Flash Update option in the F12 One-Time Boot Menu can use this function.

#### Updating from the One-Time Boot Menu

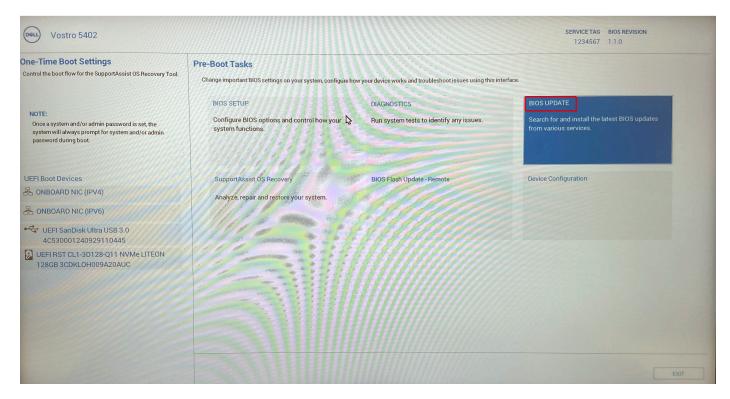
To update your BIOS from the F12 One-Time boot menu, you need:

- USB drive formatted to the FAT32 file system (key does not have to be bootable).
- BIOS executable file that you downloaded from the Dell Support website and copied to the root of the USB drive.
- AC power adapter that is connected to the system.
- Functional system battery to flash the BIOS.

Perform the following steps to run the BIOS update flash process from the F12 menu:

# CAUTION: Do not power off the system during the BIOS update process. Powering off the system could make the system fail to boot.

- 1. From a power off state, insert the USB drive where you copied the flash into a USB port of the system .
- 2. Power on the system and press the **F12** key to access the One-Time Boot Menu.
- 3. Select BIOS Update using the mouse or arrow keys then press Enter.



The Flash BIOS opens.

4. Click Flash from file.

Flash BIOS		
System BIOS Informa	ition	
System:	Vostro 5402	
Revision:	1.1.0	
Vendor:	Dell	
Power Status:	Okay	
199911113		
Flash from file		
BIOS update file:	<none selected=""></none>	
System:	<none selected=""></none>	
Revision:	<none selected=""></none>	
Vendor:	<none selected=""></none>	Million .
Options:		
1 A Com		
1 Conner		The second
Contraction of the second		
Cancel Update		

- **5.** Select external USB device.
- 6. Once the file is selected, double-click the flash target file and click **Submit**.

Flash BIOS		
System B	IOS Information	
System:	Vostro 5402	
Revision:	110	
Vendor: Power State	File Explorer	
	File Explorer	
Flash from		
BIOS updat		
System:	Inspiron_Vostro_5402_5409_5502_5509_5402_5502_1.1.0.exe	
Revision:	Inspiron_vosit0_3402_3409_3302_3303_3402_33022_1110.exc	
Vendor:		
Options:		
Cancel Up	Inspiron_Vostro_5402_5409_5502_5509_5402_5502_1.1.0.exe         Submit L Exit	

7. Click **Update BIOS** for the system to reboot and flash the BIOS.

Flash BIOS				
System BIOS Informa	ation			
System:	Vostro 5402			
Revision:	1.1.0			
Vendor:	Dell			
Power Status:	Okay			
Flash from file				
BIOS update file:	\BIOS\Inspiron_Vostro_5402_5409_5502_5509_5402_5502_1.1.0\EXE\Inspiron_Vostro_5402_5409_8 02_5509_5402_5502_1.1.0.exe			
System:	Vostro 5402			
Revision:	1.1.0			
Vendor:	Dell Inc.			
Options:				
Update BIOS!				
Cancel Update				

8. Click Confirm Update BIOS.

Flash BIOS			and the state of the
System BIOS Inform	nation		
System:	Vostro 5402		
Revision:	1.1.0		
Vendor:	Dell		
Power Status:	Okay		
Confirm Flash BIOS You are going to upda Confirm Update BIO Cancel Update	ate the BIOS!		
Cancel Update			

Once complete, the system reboots and the BIOS update process is completed.

# System and setup password

### Table 42. System and setup password

Password type	Description	
System password	Password that you must enter to log on to your system.	
	Password that you must enter to access and make changes t the BIOS settings of your computer.	

You can create a system password and a setup password to secure your computer.

**CAUTION:** The password features provide a basic level of security for the data on your computer.

## CAUTION: Anyone can access the data stored on your computer if it is not locked and left unattended.

(i) NOTE: System and setup password feature is disabled.

## Assigning a system setup password

You can assign a new System or Admin Password only when the status is in Not Set.

To enter the system setup, press F2 immediately after a power-on or reboot.

- 1. In the System BIOS or System Setup screen, select Security and press Enter. The Security screen is displayed.
- Select System/Admin Password and create a password in the Enter the new password field. Use the following guidelines to assign the system password:
  - A password can have up to 32 characters.
  - The password can contain the numbers 0 through 9.
  - Only lower case letters are valid, upper case letters are not allowed.
  - Only the following special characters are allowed: space, ("), (+), (,), (-), (.), (/), (;), ([), (\), (]), (`).
- 3. Type the system password that you entered earlier in the Confirm new password field and click OK.
- 4. Press **Esc** and a message prompts you to save the changes.
- **5.** Press **Y** to save the changes. The computer reboots.

## Deleting or changing an existing system setup password

Ensure that the **Password Status** is Unlocked (in the System Setup) before attempting to delete or change the existing System and Setup password. You cannot delete or change an existing System or Setup password, if the **Password Status** is Locked.

To enter the System Setup, press **F2** immediately after a power-on or reboot.

- In the System BIOS or System Setup screen, select System Security and press Enter. The System Security screen is displayed.
- 2. In the System Security screen, verify that Password Status is Unlocked.
- 3. Select System Password, alter or delete the existing system password and press Enter or Tab.
- 4. Select Setup Password, alter or delete the existing setup password and press Enter or Tab.

**NOTE:** If you change the System and/or Setup password, re enter the new password when prompted. If you delete the System and Setup password, confirm the deletion when prompted.

- 5. Press **Esc** and a message prompts you to save the changes.
- 6. Press Y to save the changes and exit from System Setup. The computer restarts.

# **Getting help**

6

### **Topics:**

Contacting Dell

# **Contacting Dell**

() 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.

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 for sales, technical support, or customer service issues:

#### 1. Go to 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.