Vostro 5401

Setup and specifications guide



Regulatory Model: P130G Regulatory Type: P130G001

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.

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

© 2020 Dell Inc. or its subsidiaries. All rights reserved. Dell, EMC, and other trademarks are trademarks of Dell Inc. or its subsidiaries. Other trademarks may be trademarks of their respective owners.

Contents

1 Set up your computer	5
2 Chassis overview	7
Display view	7
Left view	8
Right view	8
Palm-rest view	9
Bottom view	
Keyboard shortcuts	10
3 System specifications	12
Processors	12
Chipset	13
Operating system	
Memory	
Storage	
Ports and connectors	
Audio	14
Video	
Camera	
Communications	
Media-card reader	
Power adapter	
Battery	17
Dimensions and weight	
Display	
Keyboard	
Touchpad	
Touchpad gestures	
Fingerprint reader (optional)	
Security	
Security Software	
Computer environment	20
4 Software	
Downloading Windows drivers	22
5 System setup	23
Boot menu	
Navigation keys	23
Boot Sequence	
BIOS setup	
Overview	24
Boot configuration	

Integrated Devices	
Storage	27
Display	
Connection options	27
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	
Assigning a system setup password	
Deleting or changing an existing system setup password	40
6 Getting help	41
Contacting Dell	

Set up your computer

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



- i 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.
- i 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.
 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
Deell	Centralized location for key Dell applications, help articles, and other important information about your computer. It also notifies you about the warranty status, recommended accessories, and software updates if available.

Table 1. Locate Dell apps(continued)

Dell apps	Details
	Dell Product Registration Register your computer with Dell.
	Dell Help & Support Access help and support for your computer.
	SupportAssist Proactively checks the health of your computer's hardware and software. (i) NOTE: Renew or upgrade your warranty by clicking the warranty expiry date in SupportAssist.
	Dell Update Updates your computer with critical fixes and important device drivers as they become available.
	Dell Digital Delivery 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 1 Type-C port with DisplayPort alt mode

Right view



- 1. microSD card reader
- 2. Headset/Microphone 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 i NOTE: Not applicable for non-backlight keyboard.

Table 2. List of keyboard shortcuts(continued)

Keys	Description
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

i 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:

- Processors
- 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

Processors

Table 3. Processors

Description	Values		
Processors	10th Generation Intel Core i3-1005G1	10th Generation Intel Core i5-1035G1	10th Generation Intel Core i7-1065G7
Wattage	15 W	15 W	15 W
Core count	2	4	4
Thread count	4	8	8
Speed	Up to 3.4 GHz	Up to 3.60 GHz	Up to 3.90 GHz
Cache	4 MB	6 MB	8 MB
Integrated graphics	Intel UHD Graphics	Intel UHD Graphics	Intel Iris Plus Graphics

Chipset

Table 4. Chipset

Description	Values
Chipset	Integrated
Processor	10th Generation Intel Core i3/i5/i7 Processors
DRAM bus width	64-bit
Flash EPROM	16 MB + 8 MB
PCle bus	Up to Gen3

Operating system

Windows 10 Professional (64-bit)

- Windows 10 Home (64-bit)
- Ubuntu 18.04

Memory

Table 5. Memory specifications

Description	Values
Slots	Two-SODIMM slots
Туре	DDR4
Speed	3200 MHz
Maximum memory	32 GB
Minimum memory	4 GB
Configurations supported	 4 GB, 1 x 4 GB, DDR4, 3200 MHz 8 GB, 2 x 4 GB, DDR4, 3200 MHz 8 GB, 1 x 8 GB, DDR4, 3200 MHz 12 GB, 1 x 8 GB + 1 x 4 GB, DDR4, 3200 MHz 16 GB, 2 x 8 GB, DDR4, 3200 MHz 16 GB, 1 x 16 GB, DDR4, 3200 MHz 32 GB, 2 x 16 GB, DDR4, 3200 MHz

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.

Table 6. Storage specifications

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

Ports and connectors

Table 7. External ports and connectors

Description	Values
External:	
Network	One RJ 45
USB	 One USB 3.2 Gen 1 Type-C port with DisplayPort alt mode/ Power Delivery Two USB 3.2 Gen 1 Type-A ports
Audio	One Universal Audio Jack
Video	One HDMI 1.4b port
Media card reader	One microSD
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	 One M.2 2230 slot for WiFi and Bluetooth combo card One M.2 2230/2280 slot for solid-state drive/Intel Optane One M.2 2280 slot for solid-state drive/Intel Optane
	(i) NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626.

Audio

Table 9. Audio specifications

Description	Values
Controller	Realtek ALC3204

Table 9. Audio specifications(continued)

Description		Values	
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 External display support Memory size Memory Type			Memory Type
NVIDIA GeForce MX330	N/A	2 GB	GDDR5

Table 11. Integrated graphics specifications

Integrated graphics			
Controller	External display support	Memory size	Processor
Intel UHD Graphics	One HDMI 1.4bOne DisplayPort 1.4	Shared system memory	10th Generation Intel Core i3/i5
Intel Iris Plus Graphics	 One HDMI 1.4b One DisplayPort 1.4 over USB type-C port 	Shared system memory	10th Generation Intel Core i7

Camera

Table 12. Camera specifications

Description	Values
Number of cameras	One
Туре	HD RGB camera
Location	Front camera
Sensor type	CMOS technology

Table 12. Camera specifications(continued)

Description		Values
Resolution:		
	Still image	0.92 megapixel
	Video	1280 x 720 (HD) at 30 fps
Diagonal vie	wing angle	74.90 degrees

Communications

Ethernet

Table 13. Ethernet specifications

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

Wireless module

Table 14. Wireless module specifications

Description	Values		
Model number	Intel 9462	Intel AX201	Qualcomm QCA61x4A (DW1820)
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	 WiFi 802.11a/b/g Wi-Fi 4 (Wi-Fi 802.11n) Wi-Fi 5 (Wi-Fi 802.11ac) 	 WiFi 802.11a/b/g Wi-Fi 4 (WiFi 802.11n) Wi-Fi 5 (WiFi 802.11ac) Wi-Fi 6 (WiFi 802.11ax) 	 WiFi 802.11a/b/g WiFi 802.11n WiFi 802.11ac
Encryption	 64-bit/128-bit WEP AES-CCMP TKIP 	 64-bit/128-bit WEP AES-CCMP TKIP 	 64-bit/128-bit WEP AES-CCMP TKIP
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

Desc	ription	Values	
Туре		45 W	65 W
Diame	eter (connector)	4.50 mm +/-1 mm x 2.90 mm +/-1 mm	4.50 mm +/-1 mm x 2.90 mm +/-1 mm
Input	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
Outpu	ut current (continuous)	2.31 A	3.34 A
Rateo	l output voltage	19.50 VDC	19.50 VDC
Temp	erature 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

Descriptio	on	Values		
Туре		40 WHr, 3-cell Smart Lithium-ion	53 WHr, 4-cell Smart Lithium-ion	
Voltage		11.25 VDC	15 VDC	
Weight (m	aximum)	0.18 kg	0.235 kg	
Dimensions	5:	-		
	Height	5.75 mm	5.75 mm	
	Width	184.10 mm	239.10 mm	
	Depth	90.73 mm	90.73 mm	
Temperature range:				
	Operating	0°C to 35°C (32°F to 95°F)	0°C to 35°C (32°F to 95°F)	
	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 time (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	(i) NOTE: Control the charging time, duration, start and end time, and so on, using the Dell Power Manager	

Table 17. Battery specifications(continued)

Description	Values		
	application. For more information on the Dell Power Manager, see, <i>Me</i> <i>and My Dell</i> on www.dell.com/	application. For more information on the Dell Power Manager, see, <i>Me and My Dell</i> on www.dell.com/	
Life span (approximate)	300 discharge/charge cycles	arge/charge cycles 300 discharge/charge cycles	
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
Н	Height:	
	Front	16.74 mm (0.66 in.)
	Rear	17.90 mm (0.70 in.)
Width		321.30 mm (12.64 in.)
Depth		216.20 mm (8.51 in.)
Weight		1.41 kg (2.51 lb)
		() NOTE: The weight of your computer depends on the configuration ordered and the manufacturing variability.

Display

Table 19. Display specifications

Description		Values	
Туре		Full High Definition (FHD) 14 in.	Full High Definition (FHD) 14 in.
Panel technology		Wide View Angle (WVA)	Wide View Angle (WVA)
Luminance (typical)		220 nits	300 nits
Dimensions (Active area):		· · · · · · · · · · · · · · · · · · ·	
	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	14 in.	14 in.
Native resolution		1920 × 1080	1920 x 1080
Megapixels		2.0736	2.0736

Table 19. Display specifications(continued)

Description	Values	
Color gamut	45% NTSC	72% NTSC
Pixels per inch (PPI)	157 ррі	157 ррі
Contrast ratio (min)	500:1	600:1
Response time (max)	35 ms	35 ms
Refresh rate	60 Hz	60 Hz
Horizontal view angle	80 +/- degrees	80 min
Vertical view angle	80 +/- degrees	80 min
Pixel pitch	0.161 x 0.161 mm	0.161 x 0.161 mm
Power consumption (maximum)	3.5 W	4.5 W
Anti-glare vs glossy finish	Anti-glare	Anti-glare
Touch options	No	No

Keyboard

Table 20. Keyboard specifications

Description	Values	
Туре	Standard keyboard	
Layout	QWERTY	
Number of keys	 United States and Canada: 81 keys United Kingdom: 82 keys Japan: 85 keys 	
Size	X=18.70 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.)

Table 21. Touchpad specifications(continued)

Description		Values
	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 dpi
Sensor area	4.06 mm x 3.25 mm
Sensor pixel size	80 x 64

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
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.

† 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.

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 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

i 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.	

Keys	Navigation
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

(i) NOTE: Choosing Diagnostics, displays the SupportAssist diagnostics screen.

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

BIOS setup

(i) NOTE: Depending on the laptop and its installed devices, the items listed in this section may or may not appear.

Overview

Table 26. Overview

System Information This section lists the primary hardware features of your computer. The options are: The options are: • System Information • BIOS version • Service Tag • Asset Tag • Manufacture Date • Ownership Date • Express Service Code • Ownership Tag • Signed Firmware Update • Battery • Primary • Battery Level • Battery State	Option	Description
The options are: System Information BIOS version Service Tag Asset Tag Manufacture Date Ownership Date Express Service Code Ownership Tag Signed Firmware Update Battery Primary Battery Level Battery State	System Information	This section lists the primary hardware features of your computer.
 System Information BIOS version Service Tag Asset Tag Manufacture Date Ownership Date Express Service Code Ownership Tag Signed Firmware Update Battery Primary Battery Level Battery State 		The options are:
 BIOS version Service Tag Asset Tag Manufacture Date Ownership Date Express Service Code Ownership Tag Signed Firmware Update Battery Primary Battery Level Battery State 		· System Information
 Service Tag Asset Tag Manufacture Date Ownership Date Express Service Code Ownership Tag Signed Firmware Update Battery Battery Level Battery State 		 BIOS version
 Asset Tag Manufacture Date Ownership Date Express Service Code Ownership Tag Signed Firmware Update Battery Battery Level Battery State 		 Service Tag
 Manufacture Date Ownership Date Express Service Code Ownership Tag Signed Firmware Update Battery Primary Battery Level Battery State 		 Asset Tag
 Ownership Date Express Service Code Ownership Tag Signed Firmware Update Battery Primary Battery Level Battery State 		 Manufacture Date
 Express Service Code Ownership Tag Signed Firmware Update Battery Primary Battery Level Battery State 		 Ownership Date
 Ownership Tag Signed Firmware Update Battery Primary Battery Level Battery State 		 Express Service Code
 Signed Firmware Update Battery Primary Battery Level Battery State 		 Ownership Tag
 Battery Primary Battery Level Battery State 		 Signed Firmware Update
 Primary Battery Level Battery State 		· Battery
 Battery Level Battery State 		 Primary
 Battery State 		 Battery Level
		 Battery State
∘ Health		∘ Health

Table 26. Overview

Option	Description
	 AC Adapter Processor Information
	 Processor Type Maximum Clock Speed Minimum Clock Speed Current Clock Speed Core Count Processor ID Processor L2 Cache Processor L3 Cache Microcode Version Intel Hyper-Threading Capable 64-Bit Technology Memory Configuration Memory Installed
	 Memory Available Memory Speed Memory Channel Mode Memory Technology DIMM_Slot 1 DIMM_Slot 2 Device Information
	 Panel Type Video Controller Video Memory Wi-Fi Device Native Resolution Video BIOS Version Audio Controller Bluetooth Device LOM MAC Address dGPU Video Controller

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:
	 Windows Boot Manager UEFI Hard Drive Onboard NIC (IPV4) Onboard NIC (IPV6) NOTE: Legacy Boot mode is not supported on this platform.
Secure Boot	Secure Boot helps ensure your system boots using only validated boot software.

Table 27. Boot configuration(continued)

Option	Description
	Enable Secure Boot—By default, this option is disabled.
	() NOTE: The system has to be in UEFI boot mode to enable Enable Secure Boot.
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:
	 Deployed Mode—By default, this option is enabled. Audit Mode
Expert Key Management	Allows you to enable or disable Expert Key Management.
	Enable Custom Mode—By default, this option is disabled.
	The Custom Mode Key Management options are:
	• PK —By default, this option is enabled.
	· KEK
	· 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	Allows you to turn off all integrated audio. By default, the Enable Audio option is selected.
	Allows you to enable or disable the integrated audio or microphone and speaker separately. By default, the Enable Audio option is selected.
	The options are:
	• Enable Microphone
	· Enable Internal Speaker
USB Configuration	Allows you to enable or disable the internal or integrated USB configuration.
	The options are:
	Enable USB Boot Support
	· Enable External USB Port
	By default, all the options are enabled.

Storage

Table 29. Storage options

Option	Description
SATA Operation	Allows you to configure the operating mode of the integrated SATA hard drive controller.
	The options are:
	 Disabled AHCI
	• RAID On —By default, the RAID On option is enabled.
	(i) NOTE: SATA is configured to support RAID mode.
Storage Interface	Allows you to enable or disable various drives on board.
	The options are:
	· M.2 PCIe SSD-1
	· M.2 PCIe SSD-0
	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 Enable SMART Reporting 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:
	 Brightness on battery power - By default, set to 50. Brightness on AC power - By default, set to 100.
Full Screen Logo	Displays full screen logo when the image matches screen resolution. 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:

Table 31. Connection(continued)

Option	Description
	 Disabled Enabled Enabled with PXE - This option is enabled by default.
Wireless Device Enable	Allows you to enable or disable the internal wireless devices. The options are: • WLAN • Bluetooth 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. Enable UEFI Network Stack - 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:
	 Adaptive—enabled by default Standard ExpressCharge Primarily AC Use Custom NOTE: If Custom Charge is selected, you can also configure Custom Charge Start and Custom Charge Start
	Custom Charge Stop.
Advanced Configuration	This option enables you to maximize the battery health.
	By default, the Enable Advanced Battery Charge Mode option is disabled.
	i NOTE: The user can charge battery using feature Beginning of Day and Work Period.
	By default, Work Period is disabled.
	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.
	i NOTE: The user can:
	 Set Battery Threshold Min = 15, Max = 100 Prevent AC power between certain times of the day using Peak Shift Start, Peak Shift End, and Peak Shift Charge Start.
Thermal Management	Allows cooling of fans and the processor heat management to adjust system performance, noise, and temperature.
	The options are:

Table 32. Power Management(continued)

Option	Description	
	 Optimized—enabled by default Cool Quiet Ultra Performance 	
USB Wake Support	Enable USB Wake	Allows you to enable USB devices to wake the system from standby mode.
	Support	By default, the option Enable USB Wake Support is disabled.
	Wake on Dell USB- C Dock	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 fea AC power adapted to conserve batt	atures are only functional when the AC power adapter is connected. If the er is removed before Standby, the BIOS removes power from all USB ports ery power.
Block Sleep	This option enables you to block entering to sleep (S3) mode in operating system environment. By default, the Block Sleep option is disabled.	
	() NOTE: When Blo gets disabled au set to Sleep.	ock Sleep is enabled, the system does not go to sleep. Intel Rapid Start tomatically, and the operating system power option remains blank if it was
Lid Switch	Allows you to disable the lid switch.	
	The options are:	
	Enable Lid Switc Power On Lid Op	h—enabled by default pen—enabled by default
Intel Speed Shift technology	Allows you to enable o technology is enabled performance.	r disable the Intel Speed Shift Technology support. By default, Intel Speed Shift d. Enabling this option allows the operating system to select appropriate processor

Security

Table 33. Security

Option	Description
TPM 2.0 Security	Allows you to enable or disable the Trusted Platform Module (TPM).
	The options are:
	• TPM 2.0 Security On —This option is enabled by default.
	 PPI Bypass for Enable Commands
	 PPI Bypass for Disable Commands
	· PPI Bypass for Clear Command
	• Attestation Enable—This option is enabled by default.
	• Key Storage Enable—This option is enabled by default.
	• SHA-256—This option is enabled by default.
	· Clear
	TPM State—This option is enabled by default.
Intel Software Guard Extensions	Provides a secure environment for running code or storing sensitive information in the context of the main operating system and sets enclave reserve memory size.
	Intel SGX

Table 33. Security(continued)

Option	Description
	 The options are: Disabled Enabled Software Control—This option is enabled by default.
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.
	NOTE: Secure Wipe operation deletes information in a way that it cannot be reconstructed.
Absolute	 This field allows you to Enable, Disable, or Permanently Disable the BIOS module interface of the optional Absolute Persistence Module service from Absolute® Software. The options are: Enable Absolute — This option is enabled by default.
	 Disable Absolute Permanently Disable Absolute
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:	
	· Enter the old password:	
	• Enter the new password:	
	Press Enter once you enter the new password and again press Enter to confirm the new password.	
	(i) NOTE: 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.	
	The entries to set password are:	
	· Enter the old password:	

Table 34. Security(continued)

Option	Description	
	· Enter the new password:	
	Press Enter once you enter the new password and again press Enter to confirm the new password.	
Password Configuration	Allows you to configur	re 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 op	tions by default are disabled.
	Minimum Characters	Defines the number of characters allowed for a password. Min = 4
Password Bypass	Allows you to bypass the System password and the Internal hard drive password, when it is set, during a system restart.	
	Ihe options are: Disabled—This o Reboot bypass	ption 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 F	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.	
	(i) NOTE:	
	 If the admin view the BIO 	password is set and Enable Admin Setup Lockoutis enabled, you cannot IS setup (using F2 or F12) without the admin password.
	 If the admin setup can be 	password is set and Enable Admin Setup Lockoutis disabled, the BIOS entered and items that are viewed in Locked mode.
Master Password Lockout	Allows you to disable master password support.	
	Enable Master Pass	word Lockout - By default, this option is disabled.
	i NOTE: The Hard	I 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	Allows you to update the system BIOS through UEFI capsule update packages.
Updates	Enable UEFI Capsule Firmware Updates - By default, this option is enabled.

Table 35. Update and recovery(continued)

Option	Description
BIOS Recovery from Hard	Allows you to recover BIOS on the primary hard drive or USB drive in corrupted conditions.
Drive	BIOS Recovery from Hard Drive - By default, this option is enabled.
	(i) NOTE: 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) NOTE: If SupportAssist OS Recovery 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
	· 1 · 2 - Default
	· 3

System management

Table 36. System management

Option	Description	
Service Tag	Displays the service tag of your computer.	
Asset Tag	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.	
AC Behavior	Allows you to enable or disable the computer from turning on automatically when an AC adapter is connected.	
	By default, this option is disabled.	
Auto On Time	 This setting allows a system to automatically power on for defined days/time. The options are: Disabled - This option is enabled by default. Every Day Weekdays Select Days 	

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:
	· Lock Mode Standard
	Lock Mode Secondary- This option is enabled by default.
Keyboard Illumination	Allows you to set keyboard illumination settings using hotkeys <fn>+<f5> during normal system operation.</f5></fn>
	The options are:
	· Disabled
	• Dim Brickt This action is suchlad by default
	IDENTIFY and Internation Internation 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.
	· 15 seconds · 30 seconds
	· 1 minute
	· 5 minutes
	· 15 minutes · Never
	NOTE: If Never 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
	• 10 seconds - This option is enabled by default.
	· 15 seconds · 30 seconds
	· 1 minute
	· 5 minutes
	· 15 minutes
	NOTE: If Never is selected, the backlight stave on always when the system is supring 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:
	Prompt on Warnings and Errors—enabled by default Continue on Warnings
	Continue on Warnings and Errors
	(i) NOTE: 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
	I horough—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 Enable Intel Virtualization Technology (VT) 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 Enable Intel VT for Direct I/O 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.
	 All Cores — This option is enabled by default.
	· 2
	• 3
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
	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.
	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:	
	 Keep - This option is enabled by default. Clear 	
Thermal Event Log	Allows you to either keep and clear the Thermal event log.	

Table 41. System Logs(continued)

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

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.

i 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 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 copied to a FAT32 USB key and booting from the F12 one time boot menu.

BIOS Update

You can run the BIOS update file from Windows using a bootable USB key 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 key 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 key.
- · 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 key 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.

		SERVICE TAG BIOS REVISION
		KN01005 89.2.8
Boot Tasks		
nge important BIOS settings on your system, configure how your	device works and troubleshoot issues using this interface.	
BIOS SETUP	DIAGNOSTICS	BIOS UPDATE
Configure BIOS options and control how your system functions.	Run system tests to identify any issues.	Search for and install the latest BIOS updates from various services.
		\$
SupportAssist OS Recovery	BIOS Flash Update - Remote	Device Configuration
Analyze, repair and restore your system.		

The Flash BIOS opens.

4. Click Flash from file.

Flash BIOS		
System BIOS Informatio	on	
System:	Vostro 14 5401	
Revision:	89.2.8	
Vendor:	Dell	
Power Status:	Okay	
Flash from file		
BIOS update file:	<none selected=""></none>	
System:	<none selected=""></none>	
Revision:	<none selected=""></none>	
Vendor:	<none selected=""></none>	
Options:		

5. Select external USB device.

Flash BIOS System BIOS Information			
ision:	90.7.0		
dor: ver Stat	File Explorer		
ash fror	WINRETOULS, [PciRoot(0x0)/Pci(0x17,0x0)/Sata(0x400,0x8000,0x0)/HD(4,GPT,92B54FD4-875C-483F-962A-312 890292787,0xEC87800,0x1EF000)]		
)S upda stem:	JCC_BLUE, [PciRoot(0x0)/Pci(0x14,0x0)/USB(0x1,0x0)/USB(0x2,0x0)/HD(1,MBR,0x9D40B182,0x1F80,0x1D86 080)]		
ision: dor: ions:	Load File [PciRoot(0x0)/Pci(0x14,0x0)/USB(0x1,0x0)/USB(0x0,0x0)/USB(0x0,0x0)/MAC(9CEBE860140A,0x0)/IPv4(0.0.0.0,0x0,DHCP,0.0.0,0.0.0,0.0.0,0.0.0)]		
	Load File [PciRoot(0x0)/Pci(0x14,0x0)/USB(0x1,0x0)/USB(0x0,0x0)/USB(0x0,0x0)/MAC(9CEBE860140A,0x0)/IPv6(0000:0000:0000:0000:0000:0000:0000:00		

6. Once the file is selected, double-click the flash target file and click Submit.

em:	Vostro 14 5401	
dor: er Stat	File Explorer	
	<.>	
h froi	<flash></flash>	
upda	<toob< td=""><td></td></toob<>	
em:	FLASH BIOS SOP.docx	
ion:	Inspiron_Vostro_5401_5501_89.02.08(1).rom	
or: ins:	Inspiron_Vostro_5401_5501_89.02.08(2).rom	
	Inspiron_Vostro_5401_5501_89.02.08.exe	
	Inspiron_Vostro_5401_5501_89.02.08.rom	
	Inspiron_Vostro_5401_5501_89.02.08.exe	
ceruț		
	Submit Exit	

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

Flash BIOS		
System BIOS Information		
System:	Vostro 14 5401	
Revision:	89.2.8	
Vendor:	Dell	
Power Status:	Okay	
Flash from file		
BIOS update file:	\Inspiron_Vostro_5401_5501_89.02.08_IFUSE\Inspiron_Vostro_5401_5501_89.02.08.exe	
System:	Vostro 14 5401	
Revision:	892.8	
Vendor:	Dell Inc.	
Options:		
Update BIOS!		
Cancel Undate		
Cancel Opdate		

8. 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.
Setup password	Password that you must enter to access and make changes to the BIOS settings of your computer.

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

 \triangle 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.

- 1. 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.

i 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.
- Press Y to save the changes and exit from System Setup. The computer restarts.

Getting help

6

Topics:

Contacting Dell

Contacting Dell

(i) 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.