

# Dell Latitude 3400

## Setup and specifications guide



## Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

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

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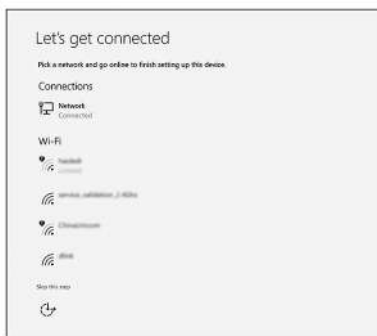
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# Set up your computer

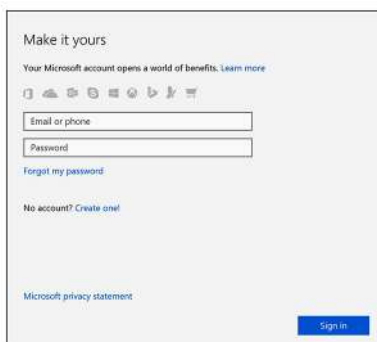
1. Connect the power cable and press the power button.



2. Follow the instructions on the screen to finish Windows setup:
  - a) Connect to a network.







- b) Sign-in to your Microsoft account or create a new account.



3. Locate Dell apps.

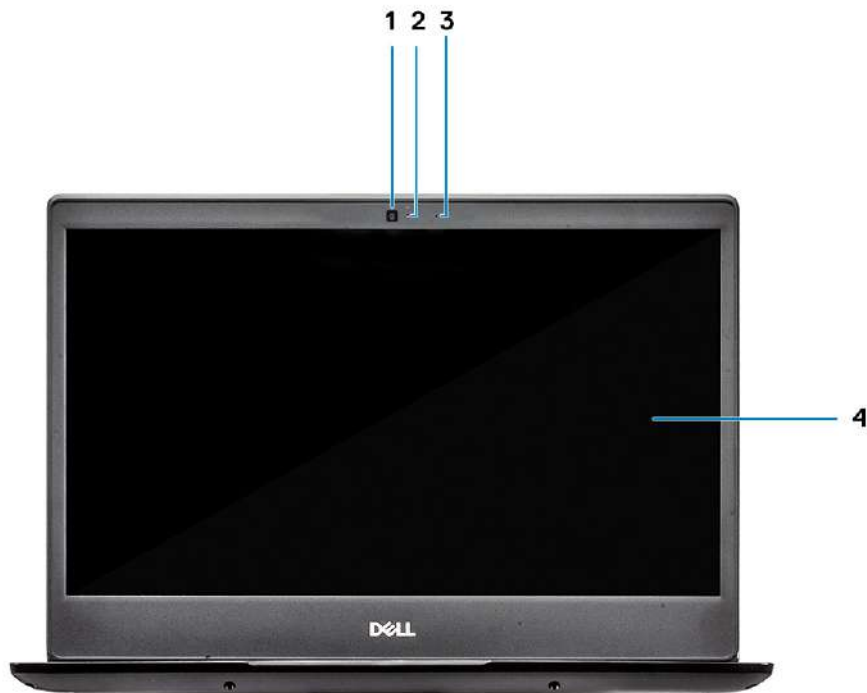
**Table 1. Locate Dell apps**

Features	Specifications
	Register your computer
	Dell Help & Support 
	SupportAssist — Check and update your computer

## Chassis overview

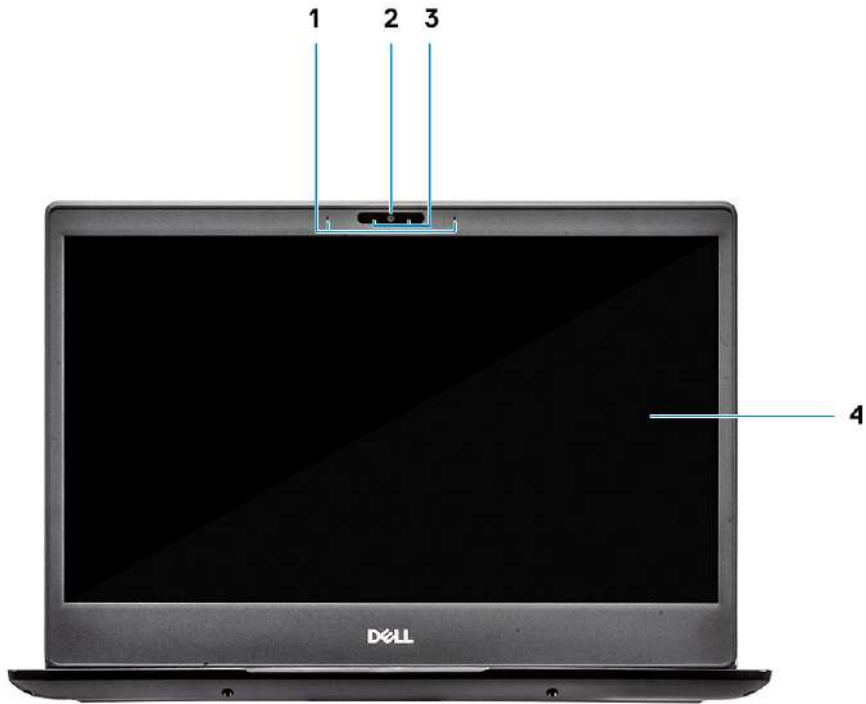
### Front view

Latitude 3400 with Non-Touch screen



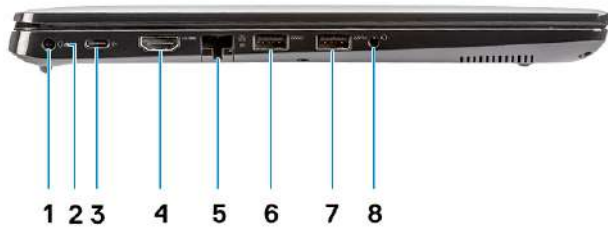
1. Camera
2. Camera status light
3. Microphone
4. LCD Panel

Latitude 3400 with Touch screen (optional)



- 1. Microphone
- 2. Camera
- 3. Camera status light
- 4. LCD Panel

## Left view



- 1. Power connector
- 2. Power LED light
- 3. USB Type-C 3.1 Gen 1 port with Power delivery and DisplayPort

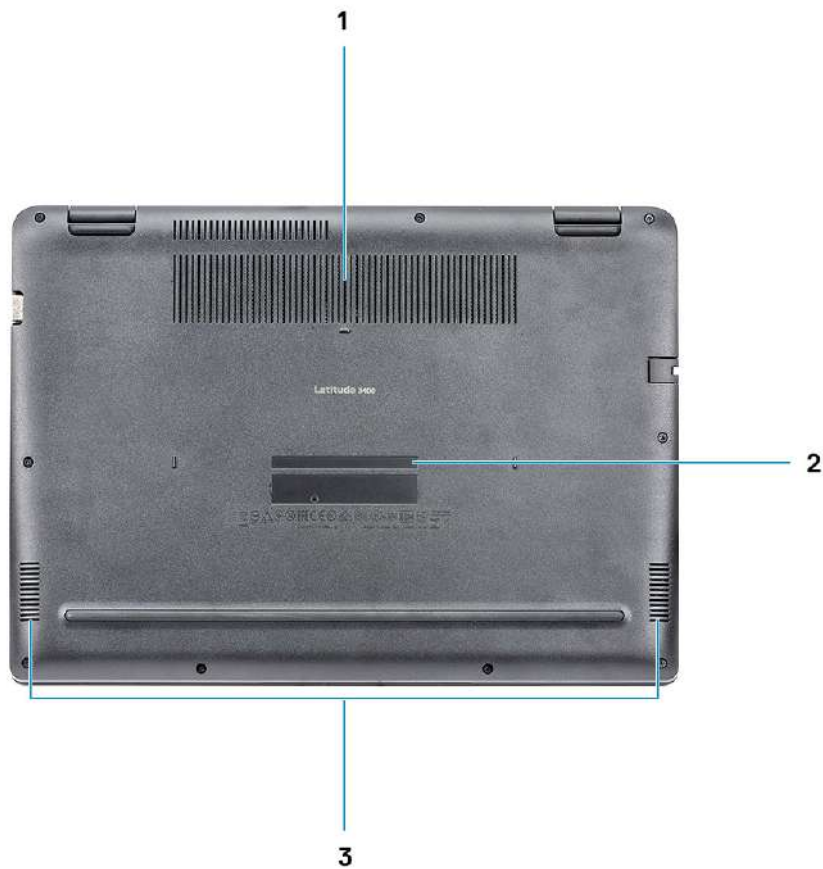
4. HDMI 1.4 port
5. Network port
6. USB 3.1 Gen 1 with PowerShare
7. USB 3.1 Gen 1 port
8. Headset port

## Right view



1. SD 3.0 memory card reader
2. USB 2.0 port
3. VGA port
4. Noble Wedge Lock slot

## Base view



1. Heatsink vent
2. Service tag label
3. Speakers

## Palmrest view

Palmrest view without Fingerprint reader



1. Power button
2. Keyboard
3. Touchpad

Palmrest view with Fingerprint reader (optional)



1. Power button with Touch Fingerprint reader (optional)
2. Keyboard
3. Touchpad

## 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 previous
Fn + F5	Play/Pause
Fn + F6	Play next
Fn + F8	Switch to external display

<b>Keys</b>	<b>Description</b>
Fn + F9	Search
Fn + F10	Toggle keyboard back light.
Fn + F11	Decrease brightness
Fn + F12	Increase brightness
Fn + PrtScr	Toggle Wireless On/Off
Fn + Ctrl	Open application

# System specifications

## System information

**Table 3. System information**

Feature	Specifications
Chipset	Integrated in the processor
DRAM bus width	64-bit
FLASH EPROM	16 MB
PCIe bus	Up to Gen3

## Processor

**NOTE:** Processor numbers are not a measure of performance. Processor availability is subject to change and may vary by region/country.

**Table 4. Processor specifications**

Type	UMA Graphics	Discrete Graphics
Intel Celeron 4205U processor (2 MB cache, 2 core count/2 threads, 1.8 GHz)	Intel UHD Graphics 620	NA
8th Gen Intel Core i3-8145U processor (4 MB cache, 2 core count/ 4 threads, 2.1 GHz upto 3.9 GHz with Turbo boost, 15 W TDP)	Intel UHD Graphics 620	NA
8th Gen Intel Core i5-8265U processor (6 MB cache, 4 core count/ 8 threads, 1.6 GHz upto 3.9 GHz with Turbo boost, 15 W TDP)	NA	Nvidia GeForce MX130 graphics
8th Gen Intel Core i5-8365U processor (6 MB cache, 4 core count/ 8 threads, 1.6 GHz upto 4.1 GHz with Turbo boost, 15 W TDP)	Intel UHD Graphics 620	Nvidia GeForce MX130 graphics
8th Gen Intel Core i7-8565U processor (8 MB cache, 4 core count/ 8 threads, 1.8 GHz upto 4.6 GHz with Turbo boost, 15 W TDP)	NA	Nvidia GeForce MX130 graphics

# Memory

Table 5. Memory specifications

Feature	Specifications
Minimum memory configuration	4 GB
Maximum memory configuration	32 GB
Number of slots	2 SODIMM
Maximum memory supported per slot	16 GB
Memory options	<ul style="list-style-type: none"><li>• 4 GB (1 x 4 GB)</li><li>• 8 GB (2 x 4 GB)</li><li>• 8 GB (1 x 8 GB)</li><li>• 16 GB (2 x 8 GB)</li><li>• 16 GB (1 x 16 GB)</li><li>• 32 GB (2 x 16 GB)</li></ul>
Type	DDR4 SDRAM Non-ECC memory
Speed	2400 MHz

# Storage

Table 6. Storage specifications

Type	Form factor	Interface	Capacity
Hard Disk Drive	SATA	SATA Gen 3 (5400 RPM)	Up to 1 TB
SATA Solid-State Drive (Class 20)	M.2 SSD 2280	SATA Gen 3	Up to 1 TB
PCIe NVMe Solid-State Drive (Class 35)	M.2 SSD 2280	PCIe Gen 3x4 NVMe, up to 32 Gbps	Up to 1 TB
PCIe NVMe Solid-State Drive (Class 35)	M.2 SSD 2230	PCIe Gen 3x4 NVMe, up to 32 Gbps	Up to 1 TB
PCIe NVMe Solid-State Drive (Class 40)	M.2 SSD 2280	PCIe Gen 3x4 NVMe, up to 32 Gbps	Up to 1 TB

# Intel Optane memory—optional

Intel Optane memory functions only as a storage accelerator. It neither replaces nor adds to the memory (RAM) installed on your computer.

**NOTE:** Intel M15 Optane memory is supported on computers that meet the following requirements:

- 8th Generation or higher Intel Core i3/i5/i7 processor
- Windows 10 64-bit version 1607 or higher (Anniversary Update)
- Intel Rapid Storage Technology driver version 17.0 or higher
- UEFI BIOS configuration

Table 7. Intel Optane memory specification

Feature	Specifications
Interface	PCIe3x4 NVMe

Feature	Specifications
Connector	M.2 card slot (2280)
Configurations supported	<ul style="list-style-type: none"> <li>8th Generation or higher Intel Core i3/i5/i7 processor</li> <li>Windows 10 64-bit version 1607 or higher (Anniversary Update)</li> <li>Intel Rapid Storage Technology driver version 17.0 or higher</li> <li>UEFI BIOS configuration</li> </ul>
Capacity	32 GB or 64 GB

## System board connectors

Table 8. System board connectors

Feature	Specifications
M.2 Connectors	One M.2 2280 Key-M Connector One M.2 2230 Key-M Connector

## Media card-reader

Table 9. Media-card reader specifications

Feature	Specifications
Type	One SD-card slot
Supported cards	SD 3.0

## Audio

Table 10. Audio specifications

Feature	Specifications
Controller	Realtek ALC3204
Speakers	Two
Interface	<ul style="list-style-type: none"> <li>Universal audio jack</li> <li>High quality speakers</li> <li>Noise reducing array microphones</li> <li>Stereo headset/mic combo</li> </ul>
Internal speaker amplifier	2W (RMS) per channel

## Video card

Table 11. Video card specifications

Controller	Type	CPU Dependency	Graphics memory type	Capacity	External display support	Maximum resolution
Intel UHD Graphics 620	UMA	<ul style="list-style-type: none"> <li>Intel Core i7-8565U CP</li> </ul>	Integrated	Shared system memory	<ul style="list-style-type: none"> <li>HDMI 1.4b port</li> <li>VGA port</li> <li>DisplayPort</li> </ul>	<ul style="list-style-type: none"> <li>1920 x 1200 @ 60Hz</li> </ul>

Controller	Type	CPU Dependency	Graphics memory type	Capacity	External display support	Maximum resolution
		<ul style="list-style-type: none"> <li>Intel Core i5-8265U CP</li> <li>Intel Core i3-8145U CPU</li> </ul>				<ul style="list-style-type: none"> <li>1920 x 1200 @ 60Hz</li> <li>3840 x 2400 @ 60Hz</li> </ul>
Nvidia GeForce MX130 equivalent, 2 GB	Discrete	NA	GDDR5	2 GB	<ul style="list-style-type: none"> <li>HDMI 1.4b port</li> <li>VGA port</li> <li>DisplayPort</li> </ul>	<ul style="list-style-type: none"> <li>1920 x 1200 @ 60Hz</li> <li>1920 x 1200 @ 60Hz</li> <li>3840 x 2400 @ 60Hz</li> </ul>

## Camera

Table 12. Camera specifications

Feature	Specifications
Resolution	Camera: <ul style="list-style-type: none"> <li>Still image: 0.92 megapixels</li> <li>Video: 1280 x 720 at 30 fps</li> <li>Still image: 0.92 megapixels</li> <li>Video: 1280 x 720 at 60 fps</li> </ul>
Diagonal viewing angle	<ul style="list-style-type: none"> <li>Camera - 86.7 degrees</li> </ul>

## Communication

Table 13. Communication specifications

Feature	Specifications
Network adapter	Integrated Realtek RTL8111H/100/1000 Mb/s Ethernet (RJ-45 )

## Wireless

Table 14. Wireless specifications

Specifications
Qualcomm QCA9377 802.11ac Single Band (1x1) Wireless Adapter + Bluetooth 4.1
Qualcomm QCA61x4A 802.11ac Dual Band (2x2) Wireless Adapter + Bluetooth 4.2
Intel Dual-Band Wireless-AC 9560 Wi-Fi + Bluetooth 5.0 Wireless Card (2x2). Bluetooth (Optional)
Intel Wi-Fi 6 AX200 2x2 .11ax 160MHz + Bluetooth 5.0

# Ports and connectors

Table 15. Ports and connectors

Feature	Specifications
Memory card reader	One SD 3.0 memory card reader
USB	<ul style="list-style-type: none"><li>• One USB Type-C 3.1 Gen 1 with Power Delivery and DisplayPort</li><li>• One USB 3.1 Gen 1 port</li><li>• One USB 3.1 Gen 1 with PowerShare port</li><li>• One USB 2.0 port</li></ul>
Security	Noble wedge lock slot
Audio	Universal audio jack
Video	One VGA and HDMI 1.4 port
Network adapter	One RJ-45 connector
Others	Touch Fingerprint reader in Power Button (optional)

# Display

Table 16. Display specifications

Feature	Specifications
Type	<ul style="list-style-type: none"><li>• 14.0 inch HD (1366 x 768) Non-Touch, 220 nits, TN, eDP 1.2, narrow border 3.25 mm, 16:9, HD camera and single microphone</li><li>• 14.0 inch FHD (1920 x 1080) Anti-Glare Non-Touch, 220 nits, WVA, eDP 1.2, narrow border 3.25 mm, 16:9, HD camera and single microphone</li><li>• 14.0 inch FHD (1920 x 1080) Anti-Glare with Embedded Touch, 220nits, WVA, eDP 1.2, narrow border 3.25 mm, 16:9, IR camera and dual microphone</li></ul>
Pixels Per Inch (PPI)	HD: 112 FHD: 157
Refresh rate	60 Hz
Horizontal viewing angle (min)	TN: +/- 40 degrees WVA: +/- 80 degrees
Vertical viewing angle (min)	TN: +10/- 30 degrees WVA: +/- 80 degrees

# Keyboard

Table 17. Keyboard specifications

Feature	Specifications
Number of keys	<ul style="list-style-type: none"><li>• 103 (U.S. and Canada)</li></ul>

Feature	Specifications
	<ul style="list-style-type: none"> <li>• 104 (Europe)</li> <li>• 106 (Brazil)</li> <li>• 107 (Japan)</li> </ul>
Size	Full sized <ul style="list-style-type: none"> <li>• X= 19.00 mm key pitch</li> <li>• Y= 19.00 mm key pitch</li> </ul>
Keyboard	<ul style="list-style-type: none"> <li>• Single pointing non-backlit keyboard.</li> <li>• Backlit keyboard (optional)</li> </ul>
Layout	QWERTY/AZERTY/Kanji

## Touchpad

Table 18. Touchpad specifications

Feature	Specifications
Resolution	<ul style="list-style-type: none"> <li>• Horizontal: 305</li> <li>• Vertical: 305</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>• Width: 4.13 inch (105 mm )</li> <li>• Height: 3.15 inch (80 mm)</li> </ul>
Multi-touch	Supports four fingers

## Operating system

Table 19. Operating system

Feature	Specifications
Operating systems supported	<ul style="list-style-type: none"> <li>• Microsoft Windows 10 Home 64 bit</li> <li>• Microsoft Windows10 Professional 64 bit</li> <li>• Windows 10S (including CMIT) (with UMA Only)</li> <li>• Ubuntu 18.04 LTS 64-bit</li> <li>• NeoKylin 6.0 64 bit</li> </ul>

## Battery

Table 20. Battery specifications

Feature	Specifications
Type	<ul style="list-style-type: none"> <li>• 42 WHr "smart" lithium-ion 3 cell battery</li> <li>• 56 WHr "smart" lithium-ion 4 cell battery</li> </ul>
Dimension	42 WHr "smart" lithium-ion <ul style="list-style-type: none"> <li>• Length: 175.5 mm (6.909 inch)</li> <li>• Width: 91 mm (3.58 inch)</li> <li>• Height: 5.9 mm (0.23 inch)</li> <li>• Weight: 177.7g</li> </ul> 56 WHr "smart" lithium-ion

Feature	Specifications
	<ul style="list-style-type: none"> <li>Length: 233.17 mm (9.18 inch)</li> <li>Width: 91 mm (3.58 inch)</li> <li>Height: 5.9 mm (0.23 inch)</li> <li>Weight: 236.00 g</li> </ul>
Weight (maximum)	252 g
Voltage	<ul style="list-style-type: none"> <li>42 WHr - 11.4 VDC</li> <li>56 WHr - 15.2 VDC</li> </ul>
Life span	300 discharge/recharge cycles
Charging time when the computer is off (approximate)	4 hours
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions
Temperature range: Operating	0°C to 35°C (32°F to 95°F)
Temperature range: Storage	-40°C to 65°C (-40°F to 149°F)
Coin-cell battery	ML1220

## Power adapter

**Table 21. Power adapter specifications**

Feature	Specifications
Type	<ul style="list-style-type: none"> <li>45 W adapter 4.5 mm barrel</li> <li>65 W adapter 4.5 mm barrel</li> <li>65 W adapter, USB Type-C</li> <li>90 W adapter, USB Type-C</li> </ul>
Input Voltage	100 VAC-240 VAC
Input current (maximum)	<ul style="list-style-type: none"> <li>180 W - 1.7 A</li> <li>180 W - 2.5 A</li> </ul>
Input frequency	50 Hz-60 Hz
Output current	180 W - 3.34 A (continuous)
Rated output voltage	19.5 VDC
Temperature range (Operating)	0° to 40° C (32° to 104° F)
Temperature range (Non-Operating)	40° to 70° C (-40° to 158° F)

## Dimensions and weight

**Table 22. Dimensions and weight**

Feature	Specifications
Height	Front height - 0.73 inch (18.65 mm) Back height - 0.76 inch (19.25 mm)

Feature	Specifications
Width	13.0 inch (330.3mm)
Depth	9.37 inch (238mm)
Weight	Starting 3.69 lb (1.67 kg)

## Computer environment

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

**Table 23. Computer environment**

	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 80% (non-condensing) <b>i</b> <b>NOTE: Maximum dew point temperature = 26°C</b>	10% to 95% (non-condensing) <b>i</b> <b>NOTE: Maximum dew point temperature = 33°C</b>
Vibration (maximum)	0.26 GRMS	1.37 GRMS
Shock (maximum)	105 G †	40 G ‡
Altitude (maximum)	-15.2 m to 3048 m (-50 ft to 10,000 ft)	-15.2 m to 10,668 m (-50 ft to 35,000 ft)

\* 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.

‡ Measured using a 2 ms half-sine pulse when the hard-drive head is in parked position.

## Security

**Table 24. Security**

Feature	Specifications
Trusted Platform Module (TPM) 2.0	Integrated on the system board
Firmware TPM	Optional
Windows Hello Support	Optional

## Security Software

**Table 25. Security Software**

Feature	Specifications
Dell Endpoint Security Suite Enterprise	Optional
Dell Data Guardian	Optional
Dell Encryption (Enterprise or Personal)	Optional
Dell Threat Defense	Optional
RSA SecurID Access	Optional

<b>Feature</b>	<b>Specifications</b>
RSA NetWitness Endpoint	Optional
MozyPro or MozyEnterprise	Optional
VMware Airwatch/WorkspaceONE	Optional
Absolute Data & Device Security	Optional

## Miscellaneous software

**Table 26. Miscellaneous software**

<b>Feature</b>	<b>Specifications</b>
Dell Precision Optimizer V3.0	Standard
Teradici PCoIP Workstation Access Software	Optional

# Software

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

## Topics:

- [Downloading drivers](#)

## Downloading 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**.

 **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.

# System setup

## System setup

**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.

## Boot options

Table 27. General

Option	Description
<b>Boot Mode</b>	<p>Allows you to change the order in which the computer attempts to find an operating system.</p> <p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>Windows Boot Manager</b></li> <li>• <b>UEFI Hard Drive</b></li> </ul> <p>The <b>Boot Sequence</b> window allows you to change the boot sequence options.</p> <p>Click one of the following options:</p> <ul style="list-style-type: none"> <li>• <b>Add Boot Option</b></li> <li>• <b>Remove Boot option</b></li> <li>• <b>View</b></li> </ul>
<b>Bios Setup Advanced Mode</b>	<p>Allows you to Enable or Disable BIOS Setup Advance mode settings.</p>
<b>UEFI Boot Path Security</b>	<p>Allows you to control whether the system prompts the user to enter the Admin password when booting to a UEFI boot path.</p> <p>Click one of the following options:</p> <ul style="list-style-type: none"> <li>• <b>Always, Except Internal HDD</b>—Default</li> <li>• <b>Always</b></li> <li>• <b>Never</b></li> </ul>

# System configuration

Table 28. System Configuration

Option	Description
<b>Date/Time</b>	Allows you to set the date and time. The change to the system date and time takes effect immediately.
<b>Enable SMART Reporting</b>	This field controls whether hard drive errors for integrated drives are reported during system startup. This technology is part of the SMART (Self Monitoring Analysis and Reporting Technology) specification. This option is disabled by default.
<b>Integrated NIC</b>	Allows you to configure the integrated network controller. Click one of the following options: <b>Enable UEFI Network Stack</b> If enabled, UEFI networking protocols are installed, allowing pre-OS and early OS networking features to use enabled NICs. This maybe used without PXE turned on. <b>Integrated NIC</b> <ul style="list-style-type: none"><li>• <b>Disabled</b></li><li>• <b>Enabled</b></li><li>• <b>Enabled w/PXE</b>—Default</li></ul>
<b>Enable Audio</b>	Allows you to switch all integrated audio On/Off, or enable/disable the microphone and the internal speaker separately. The options are: <ul style="list-style-type: none"><li>• <b>Enable Audio</b></li><li>• <b>Enable Microphone</b></li><li>• <b>Enable Internal Speaker</b></li></ul> This option is enabled by default.
<b>USB Configuration</b>	Allows you to enable or disable the internal/integrated USB configuration. The options are: <ul style="list-style-type: none"><li>• <b>Enable USB Boot Support</b></li><li>• <b>Enable External USB Ports</b></li></ul> All the options are set by default. <b>NOTE: USB keyboard and mouse always work in the BIOS setup irrespective of these settings.</b>
<b>SATA Operation</b>	Allows you to configure the operating mode of the integrated SATA hard drive controller. Click one of the following options: <ul style="list-style-type: none"><li>• <b>Disabled</b></li><li>• <b>AHCI</b></li><li>• <b>RAID</b>—Default</li></ul> <b>NOTE: SATA is configured to support RAID mode.</b>
<b>Drives</b>	Allows you to enable or disable various drives on board. The options are: <ul style="list-style-type: none"><li>• <b>SATA-0</b></li></ul>

Option	Description
<b>Miscellaneous devices</b>	<ul style="list-style-type: none"> <li>• <b>M.2 PCIe SSD-0/SATA-2</b></li> </ul> <p>All the options are set by default.</p> <p>Allows you to enable or disable various on board devices.</p> <ul style="list-style-type: none"> <li>• <b>Enable Camera</b>—Default</li> <li>• <b>Enable Hard Drive Free Fall Protection</b>—Default</li> <li>• <b>Enable Secure Digital (SD) Card</b>—Default</li> <li>• <b>Secure Digital Card (SD) Read-Only Mode</b></li> <li>• <b>Secure Digital (SD) Card Boot</b></li> </ul>
<b>Enable USB PowerShare</b>	<p>Allows you to On or Off external devices to be powered or charged using the stored system battery.</p>
<b>Keyboard Illumination</b>	<p>This field lets you choose the operating mode of the keyboard illumination feature. The keyboard brightness level can be set from 0% to 100%.</p> <p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>Disabled</b></li> <li>• <b>Dim</b></li> <li>• <b>Bright</b>—Default</li> </ul>
<b>Keyboard Backlight Tmeout on AC</b>	<p>Allows you to define the timeout value for the keyboard backlight when an AC adapter is plugged in the system. The Keyboard Backlight timeout value is only in effect when the backlight is enabled.</p> <ul style="list-style-type: none"> <li>• <b>5 seconds</b></li> <li>• <b>10 seconds</b>—Default</li> <li>• <b>15 seconds</b></li> <li>• <b>30 seconds</b></li> <li>• <b>1 minute</b></li> <li>• <b>5 minutes</b></li> <li>• <b>15 minutes</b></li> <li>• <b>Never</b></li> </ul>
<b>Keyboard Backlight Tmeout on Battery</b>	<p>Allows you to define the timeout value for the keyboard backlight when the system is running only on battery power. The Keyboard Backlight timeout value is only in effect when the backlight is enabled.</p> <ul style="list-style-type: none"> <li>• <b>5 seconds</b></li> <li>• <b>10 seconds</b>—Default</li> <li>• <b>15 seconds</b></li> <li>• <b>30 seconds</b></li> <li>• <b>1 minute</b></li> <li>• <b>5 minutes</b></li> <li>• <b>15 minutes</b></li> <li>• <b>Never</b></li> </ul>
<b>Unobtrusive Mode</b>	<p><b>Enable unobtrusive Mode</b></p> <p>When On, this option turns off all system light and sound. It is set to 'OFF' by default.</p>
<b>Touchscreen</b>	<p>It allows you to enable or disable the touch screen in the Operating System. It is set to 'ON' by default.</p>
<b>DellCoreServices</b>	<p>This option controls boot time creation of an SSDT ACPI Virtual Device Table.</p>

Option	Description
<b>Dell Type-C Dock Configuration</b>	Allows you to enable or disable Dell Docks configuration settings.

## Video screen options

Table 29. Video

Option	Description
<b>LCD Brightness</b>	Allows you to set the display brightness depending upon the power source. On Battery(50% is default) and On AC (100% default).

## Security

Table 30. Security

Option	Description
<b>Enable Admin Setup Lockout</b>	<p>Allows you to prevent users from entering Setup when an administrator password is set.</p> <ul style="list-style-type: none"> <li>• <b>Enable Admin Setup Lockout</b></li> </ul> <p>This option is not set by default.</p>
<b>Enable CPU XD Support</b>	<p>Allows you to enable or disable CPU XD support.</p> <p>This option is enabled by default.</p>
<b>Password Bypass</b>	<p>When enabled, it prompts for system and internal hard drive passwords when the system is powered on from the Off state.</p> <ul style="list-style-type: none"> <li>• <b>Disabled</b>—default</li> <li>• Reboot Bypass</li> </ul>
<b>Enable Non-Admin Password Changes</b>	<p>Allows you to change system and hard drive password.</p> <p>This option is enabled by default.</p>
<b>Non-Admin Setup Changes</b>	<p>Allows you to determine whether changes to the setup options are allowed when an Administrator Password is set. If disabled the setup options are locked by the admin password.</p> <ul style="list-style-type: none"> <li>• <b>Allow Wireless Switch Changes</b></li> </ul> <p>This option is not set by default.</p>
<b>Enable UEFI Capsule Firmware Updates</b>	<p>Allows you to update the system BIOS through UEFI capsule update packages.</p> <ul style="list-style-type: none"> <li>• <b>Enable UEFI Capsule Firmware Updates</b></li> </ul> <p>This option is set by default.</p>
<b>TPM 2.0 Security</b>	<p>Allows you to enable or disable the Trusted Platform Module (TPM) during POST.</p> <p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>TPM On</b>—Default</li> <li>• <b>Clear</b></li> <li>• <b>PPI Bypass for Enable Command</b>—Default</li> <li>• <b>PPI Bypass for Disable Command</b></li> <li>• <b>PPI Bypass for Clear Command</b></li> <li>• <b>Attestation Enable</b>—Default</li> <li>• <b>Key Storage Enable</b>—Default</li> <li>• <b>SHA-256</b>—Default</li> </ul>

Option	Description
<b>PPI Bypass for Enable Commands</b>	This option controls the TPM Physical Presence Interface. This option is enabled by default.
<b>PPI Bypass for Disable Commands</b>	This option controls the TPM Physical Presence Interface. This option is not set by default.
<b>PPI Bypass for Clear Commands</b>	This option controls the TPM Physical Presence Interface. This option is not set by default.
<b>Attestation Enable</b>	This option lets you control the TPM endorsement Hierarchy available in the Operating System. The option restricts the ability to use the TPM for signing and signature operations. This option is enabled by default.
<b>Key Storage Enable</b>	This option lets you control the TPM endorsement Hierarchy available in the Operating System. The setting restricts the ability to use the TPM for storing owner data. This option is enabled by default.
<b>SHA-256</b>	This lets you control the SHA-256 configuration options. This option is enabled by default.
<b>Clear</b>	This option lets you clear the TPM owner information.
<b>TPM State</b>	This option lets you enable or disable TPM. <ul style="list-style-type: none"> <li>• <b>Disabled</b></li> <li>• <b>Enabled</b></li> </ul> This option is enabled by default.
<b>Intel Platform Trust Technology On</b>	This option lets you control if the Intel Platform Trust Technology feature needs to be visible in the Operating System. This option not set by default.
<b>Intel SGX</b>	If enabled, it provides a secure environment for running codes and storing information of the Operating System. <ul style="list-style-type: none"> <li>• <b>Disabled</b></li> <li>• <b>Enabled</b></li> <li>• <b>Software Control</b>—Default</li> </ul>
<b>SMM Security Mitigation</b>	Allows you to enable or disable extra UEFI SMM Security Mitigation protection. <ul style="list-style-type: none"> <li>• <b>SMM Security Mitigation</b></li> </ul> This option is not set by default.

## Passwords

Table 31. Passwords

Option	Description
<b>Enable Strong Passwords</b>	Allows you to set strict rules for admin and system passwords. The option is not set by default.
<b>Password Configuration</b>	Allows you to set or change the minimum and maximum characters for Admin and System password. <ul style="list-style-type: none"> <li>• <b>Admin Password Min</b></li> <li>• <b>Admin Password Max</b></li> </ul>

Option	Description
	<ul style="list-style-type: none"> <li>• <b>System Password Min</b></li> <li>• <b>System Password Max</b></li> </ul>
<b>Admin Password</b>	<p>Allows you to set, change, or delete the administrator(admin) password.</p> <p>The entries to set password are:</p> <ul style="list-style-type: none"> <li>• <b>Enter the old password:</b></li> <li>• <b>Enter the new password:</b></li> <li>• <b>Confirm new password:</b></li> </ul> <p>Click <b>OK</b> once you set the password.</p> <p><b>(i) NOTE: For the first time login, "Enter the old password:" field is marked to "Not set." Hence, password has to be set for the first time you login and then you can change or delete the password.</b></p>
<b>System Password</b>	<p>Allows you to set, change, or delete the System password.</p> <p>The entries to set password are:</p> <ul style="list-style-type: none"> <li>• <b>Enter the old password:</b></li> <li>• <b>Enter the new password:</b></li> <li>• <b>Confirm new password:</b></li> </ul> <p>Click <b>OK</b> once you set the password.</p> <p><b>(i) NOTE: For the first time login, "Enter the old password:" field is marked to "Not set." Hence, password has to be set for the first time you login and then you can change or delete the password.</b></p>
<b>Internal HDD-0 Password</b>	<p>Allows you to change the hard drive password.</p> <p>The entries to set password are:</p> <ul style="list-style-type: none"> <li>• <b>Enter the old password:</b></li> <li>• <b>Enter the new password:</b></li> <li>• <b>Confirm new password:</b></li> </ul>
<b>Enable Master Password Lockout</b>	<p>This option disables master password support.</p> <p>The option is not set by default.</p>

## Secure boot

Table 32. Secure Boot

Option	Description
<b>Enable Secure Boot</b>	<p>Allows you to enable or disable the Secure Boot Feature.</p> <ul style="list-style-type: none"> <li>• <b>Secure Boot Enable</b>—Default</li> </ul>
<b>Secure Boot Mode</b>	<p>Changes to the Secure Boot operation mode modifies the behaviour of Secure Boot to allow evaluation of UEFI driver signatures.</p> <p>Choose one of the option:</p> <ul style="list-style-type: none"> <li>• <b>Deployed Mode</b>—Default</li> <li>• <b>Audit Mode</b></li> </ul>

# Expert Key Management

Table 33. Expert Key Management

Option	Description
<b>Expert Key Management</b>	<p>Allows you to enable or disable Expert Key Management.</p> <ul style="list-style-type: none"><li>• <b>Custom Mode Key Management</b></li></ul> <p>This option is not set by default.</p> <p>The Custom Mode Key Management options are:</p> <ul style="list-style-type: none"><li>• <b>PK</b>—Default</li><li>• <b>KEK</b></li><li>• <b>db</b></li><li>• <b>dbx</b></li></ul>

# Performance


Table 34. Performance

Option	Description
<b>Intel Hyper-Threading Technology</b>	<p>Allows you to enable or disable the HyperThreading in the processor.</p> <p>This option is set by default.</p>
<b>Intel SpeedStep</b>	<p>Allows you to enable or disable the Intel SpeedStep mode of processor.</p> <ul style="list-style-type: none"><li>• <b>Enable Intel SpeedStep Technology</b></li></ul> <p>This option is set by default.</p>
<b>Intel TurboBoost Technology</b>	<p>Allows you to enable or disable the Intel TurboBoost mode of the processor.</p> <ul style="list-style-type: none"><li>• <b>Enable Intel TurboBoost</b></li></ul> <p>This option is set by default.</p>
<b>Active Cores</b>	<p>This setting enables you to change the number of CPU cores available to the Operating System.</p> <ul style="list-style-type: none"><li>• <b>All Cores</b>—Default</li><li>• <b>1</b></li></ul>
<b>Enable C-State Control</b>	<p>Allows you to enable or disable the additional processor sleep states.</p> <ul style="list-style-type: none"><li>• <b>C states</b></li></ul> <p>This option is set by default.</p>

# Power management

Table 35. Power Management

Option	Description
<b>AC Behavior</b>	<p>Allows you to enable or disable the computer from turning on automatically when an AC adapter is connected.</p>

Option	Description
	<ul style="list-style-type: none"> <li>• <b>Wake on AC</b></li> </ul> <p>This option is not set by default.</p>
<b>Auto On Time</b>	<p>Allows you to set the time at which the computer must turn on automatically.</p> <p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>Disabled</b>—Default</li> <li>• <b>Every Day</b></li> <li>• <b>Weekdays</b></li> <li>• <b>Select Days</b></li> </ul> <p>This option is not set by default.</p>
<b>Peak Shift</b>	<p>Allows you to block entering to sleep in operating system environment.</p>
<b>Battery Charge Configuration</b>	<p>Allows you to select the charging mode for the battery.</p> <p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>Adaptive</b>—Default</li> <li>• <b>Standard</b> - Fully charges your battery at a standard rate.</li> <li>• <b>ExpressCharge</b>- The battery charges over a shorter period using Dell's fast charging technology.</li> <li>• <b>Primarily AC use</b></li> <li>• <b>Custom</b></li> </ul> <p>If Custom Charge is selected, you can also configure Custom Charge Start and Custom Charge Stop.</p>
<b>Enable Advanced Battery Charge Configuration</b>	<p> <b>NOTE: All charging mode may not be available for all the batteries. To enable this option, disable the Advanced Battery Charge Configuration option.</b></p> <p>This option enables you to maximize the battery health. By enabling this option, your system uses the standard charging algorithm and other techniques, during the nonwork hours to improve the battery health.</p>
<b>Block Sleep</b>	<p>This option minimizes AC power usage at times of peak demand.</p>
<b>Wake on LAN/WLAN</b>	<p>This option allows the computer to power up from the off state when triggered by a special LAN signal. Wake-up from the Standby state is unaffected by this setting and must be enabled in the operating system. This feature only works when the computer is connected to AC power supply.</p> <ul style="list-style-type: none"> <li>• <b>Disabled</b>—Default - Does not allow the system to power on by special LAN signals when it receives a wake-up signal from the LAN or wireless LAN.</li> <li>• <b>LAN Only</b> - Allows the system to be powered on by special LAN signals.</li> </ul>
<b>Enable USB Wake Support</b>	<p>Allows you to enable USB devices to wake the system from standby.</p> <ul style="list-style-type: none"> <li>• <b>Enable USB Wake Support</b></li> </ul> <p>This option is not set by default.</p>
<b>Wake on Dell USB-C Dock</b>	<p>When <b>Wake on Dell USB-C Dock</b> is enabled, connecting a Dell USB-C Dock will wake the system from Standby.</p>
<b>Wireless Radio Control</b>	<p>If enabled, this feature sense the connection of the system to a wired network and subsequently disable the selected wireless radios.</p> <ul style="list-style-type: none"> <li>• <b>Control WLAN radio</b></li> <li>• <b>Control WWAN radio</b></li> </ul>
<b>Intel Speed Shift Technology</b>	<p>Allows you to enable or disable the Intel Speed Shift Technology.</p> <ul style="list-style-type: none"> <li>• <b>Enabled</b>—Default</li> </ul>
<b>Force Lpm And Aspm Off</b>	<p>Force SATA/USB low-power mode and Active State Power Management (ASPM) off in manufacturing mode.</p>

# Wireless options

Table 36. Wireless

Option	Description
<b>Wireless Switch</b>	<p>Allows to set the wireless devices that can be controlled by the wireless switch.</p> <p>The options are:</p> <ul style="list-style-type: none"><li>• <b>WLAN</b></li><li>• <b>Bluetooth</b></li></ul> <p>All the options are enabled by default.</p>
<b>Wireless Device Enable</b>	<p>Allows you to enable or disable the internal wireless devices.</p> <p>The options are:</p> <ul style="list-style-type: none"><li>• <b>WLAN</b></li><li>• <b>Bluetooth</b></li></ul> <p>All the options are enabled by default.</p>

# Post behavior

Table 37. POST Behavior

Option	Description
<b>Enable Numlock</b>	<p>The option specifies if the Numlock function should be enabled when the system boots.</p> <p>The option is set by default.</p>
<b>Enable Adapter Warnings</b>	<p>Allows you to enable or disable the system setup (BIOS) warning messages when you use certain power adapters.</p> <ul style="list-style-type: none"><li>• <b>Enable Adapter Warnings</b>—Default</li></ul>
<b>Extended BIOS POST Time</b>	<p>Allows you to create an additional preboot delay.</p> <p>Click one of the following options:</p> <ul style="list-style-type: none"><li>• <b>0 seconds</b>—Default</li><li>• <b>5 seconds</b></li><li>• <b>10 seconds</b></li></ul>
<b>Fastboot</b>	<p>Allows you to speed up the boot process by bypassing some of the compatibility steps.</p> <p>Click one of the following options:</p> <ul style="list-style-type: none"><li>• <b>Minimal</b></li><li>• <b>Thorough</b>—Default</li><li>• <b>Auto</b></li></ul>
<b>Fn Lock Options</b>	<p>Allows you to let hot key combinations Fn + Esc toggle the primary behavior of F1–F12, between their standard and secondary functions. If you disable this option, you cannot toggle dynamically the primary behavior of these keys.</p> <ul style="list-style-type: none"><li>• <b>Fn Lock</b>—Default</li></ul> <p>Click one of the following options:</p> <ul style="list-style-type: none"><li>• <b>Lock Mode Disable/Standard</b></li><li>• <b>Lock Mode Enable/Secondary</b>—Default</li></ul>
<b>Full Screen Logo</b>	<p>Allows you to display full screen logo, if your image matches screen resolution.</p>

Option	Description
	<ul style="list-style-type: none"> <li>• <b>Enable Full Screen Logo</b></li> </ul> <p>This option is not set by default.</p>
<b>Warnings and Errors</b>	<p>Allows you to select different options to either stop, prompt and wait for user input, continue when warnings are detected but pause on errors, or continue when either warnings or errors are detected during the POST process.</p> <p>Click one of the following options:</p> <ul style="list-style-type: none"> <li>• <b>Prompt on Warnings and Errors</b>—Default</li> <li>• <b>Continue on Warnings</b></li> <li>• <b>Continue on Warnings and Errors</b></li> </ul>
<b>MAC Address Pass-Through</b>	<p>This feature replaces the external NIC MAC address with the selected MAC address from the system.</p> <p>Click one of the following options:</p> <ul style="list-style-type: none"> <li>• <b>Passthrough MAC Address</b>—Default</li> <li>• <b>Integrated NIC 1 MAC Address</b></li> <li>• <b>Disabled</b></li> </ul>


## Virtualization support

Table 38. Virtualization Support

Option	Description
<b>Virtualization</b>	<p>This option specifies whether a Virtual Machine Monitor (VMM) can utilize the additional hardware capabilities provided by the Intel Virtualization technology.</p> <ul style="list-style-type: none"> <li>• <b>Enable Intel Virtualization Technology</b></li> </ul> <p>This option is set by default.</p>
<b>VT for Direct I/O</b>	<p>Enables or disables the Virtual Machine Monitor (VMM) from utilizing the additional hardware capabilities provided by the Intel Virtualization technology for direct I/O.</p> <ul style="list-style-type: none"> <li>• <b>Enable VT for Direct I/O</b></li> </ul> <p>This option is set by default.</p>

## Maintenance

Table 39. Maintenance

Option	Description
<b>Asset Tag</b>	<p>Allows you to create a system asset tag if an asset tag is not already set.</p> <p>This option is not set by default.</p>
<b>Service Tag</b>	<p>Displays the service tag of your computer.</p>
<b>Bios Recovery from Hard Drive</b>	<p><b>BIOS Recovery from Hard Drive</b>—This option is set by default. Allows you to recover the corrupted BIOS from a recovery file on the hard drive or an external USB key.</p> <p><b>BIOS Auto-Recovery</b>—Allows you to recover the BIOS automatically.</p> <p> <b>NOTE: BIOS Recovery from Hard Drive field should be enabled.</b></p> <p><b>Always Perform Integrity Check</b>—Performs integrity check on every boot.</p>
<b>BIOS Auto-Recovery</b>	<p>Allows you to automatically recover BIOS without any user action.</p>

Option	Description
	<ul style="list-style-type: none"> <li>• <b>Allow BIOS Downgrade</b></li> </ul> <p>This option is not set by default.</p>
<b>Start Data Wipe</b>	<p>Allows you to securely erase data from all internal storage devices.</p> <ul style="list-style-type: none"> <li>• <b>Wipe on Next Boot</b></li> </ul> <p>This option is not set by default.</p>

## System logs

Table 40. System Logs

Option	Description
<b>Power Event Log</b>	Allows you to view and clear the System Setup (Power) events.
<b>BIOS event Log</b>	Allows you to view and clear the System Setup (BIOS) POST events.

## SupportAssist system resolution

Table 41. SupportAssist System Resolution

Option	Description
<b>Dell Auto OS Recovery Threshold</b>	<p>This option controls the automatic boot flow for SupportAssist System Resolution console and for Dell OS recovery Tool.</p> <p>Click one of the options below:</p> <ul style="list-style-type: none"> <li>• <b>OFF</b></li> <li>• <b>1</b></li> <li>• <b>2</b>—Default</li> <li>• <b>3</b></li> </ul>

## Getting help

### 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.