Supported System Requirements

Effective February–June 2019

This document describes the current system requirements for the DRC INSIGHT Online Learning System, including student-testing devices and Central Office Services (COS) Service Devices. These requirements cover the following items:

- Hardware devices
- Accessories and peripherals
- Operating systems and levels
- Processor, disk space, and memory
- Screen size and resolution
- Certain testing accommodations

DRC aggressively seeks out, validates, and adopts new technology to offer the best testing solutions to our customers while keeping pace with constantly changing and evolving technology standards. In general, DRC software applications offer Best Effort Support of new versions of a supported operating system within one month of public availability of the new version and Full Support within three months of public availability of the new version, or by the next release date of the DRC application, whichever duration is greater.

Current Update: February 1, 2019
Next Update: June 2019

This document is updated three times each calendar year.
# DRC INSIGHT Supported System Requirements

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**UPDATE: Support Starting and Ending**

The following is a quick overview of upcoming changes to the hardware and software supported for DRC INSIGHT and COS. For details, see the appropriate section.

### Device Support Beginning

DRC does not list specific supported devices for Windows and Chrome OS. DRC will support devices (including touch-screen devices) that meet the minimum system requirements.

### Software Support Beginning

- **Windows 10 in S mode**
- **Windows Server 2019** (anticipated March 2019)

### Device Support Ending

NA

### Software Support Ending

- **Mac OS X 10.11** (July 2019)
- **Ubuntu 14.04** (July 2019)
- **iOS 11.x** (July 2019)

**Testing Site Manager** (August 2019)

Support for the DRC Testing Site Manager (TSM) software will end after August of 2019. Starting in May of 2019, the TSM software will no longer be available for downloading from the DRC Portal. The Central Office Services (COS) software replaces the TSM. Look for more information in the June update of the DRC INSIGHT Supported System Requirements.

**Windows 7 and Windows Server 2008** (To Be Determined)

Microsoft ended mainstream support for Windows 7 in January of 2015 and switched to extended support. Now, Microsoft is planning to end extended support for Windows 7, as well as support for Windows Server 2008, in January of 2020. DRC will continue to support both Windows 7 software and Windows Server 2008 software throughout the 2019–2020 school year. Look for more information in the June update of the DRC INSIGHT Supported System Requirements.

### Device Support Ended

NA

### Ubuntu 18.04 Software Support Extended

Ubuntu 18.04 was released in April of 2018. Recently, Mark Shuttleworth, founder and CEO of Canonical, Inc. and Ubuntu, announced that support for level 18.04 will be increased from the standard five years to ten years, extending support until 2028.
**Minimum vs. Recommended**
Throughout this document, the Minimum level of requirements represents a low compliance threshold. DRC advises using the Recommended level or above. The Recommended level is required for testing with accommodations such as Human Voice Audio (HVA), Text-To-Speech (TTS), and Video Sign Language (VSL).

**DRC Device Support Policy**
Typically, when a hardware vendor, such as Dell or Lenovo, discontinues a hardware device, the software vendor that provides the operating system support for that device continues supporting the device for a period of time. Therefore, for any device that DRC adds to its fully supported device list, DRC will continue to support the device until the software vendor officially discontinues support for the device.

**Device Categories**
DRC’s approach is to test and certify our software on the devices most commonly used in the classroom. As a result of its testing, DRC groups devices into the three categories described in the table below.

<table>
<thead>
<tr>
<th>Device Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fully Supported</td>
<td>DRC has evaluated and tested the device. It is suitable for testing with DRC INSIGHT and COS Service Devices.*</td>
</tr>
<tr>
<td>Not Suitable for Online Testing</td>
<td>DRC has evaluated and tested the device. For various reasons, it is unacceptable for testing with DRC INSIGHT and/or COS Service Devices.</td>
</tr>
<tr>
<td>Other</td>
<td>Any device that does not fit into the other categories falls into this category. DRC has neither evaluated nor tested the device—it may or may not be suitable for testing with DRC INSIGHT and/or COS Service Devices.</td>
</tr>
<tr>
<td></td>
<td>Device manufacturers use different methods to implement touch-enabled screens for their devices, with the technology evolving over time. DRC typically tests DRC INSIGHT with touch devices made by the most common manufacturers for educational settings. Generally speaking, DRC INSIGHT will operate effectively on similar touch-screen models and DRC will provide best effort support for these models.</td>
</tr>
</tbody>
</table>

*Certain devices, such as iPad devices or Chrome devices, can be used for DRC INSIGHT, but not for COS Service Devices.
## DRC INSIGHT Testing Device Requirements

The table below indicates the current DRC INSIGHT testing device requirements, as well as the testing devices that DRC fully supports and the devices that are known to be unsuitable for online testing.

<table>
<thead>
<tr>
<th>Fully Supported Devices</th>
<th>Processor</th>
<th>Available Memory</th>
<th>Unused Disk Space</th>
<th>Screen Size</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Windows</strong></td>
<td><strong>Minimum</strong></td>
<td>Intel 4th Generation Core i3 4005U (or AMD equivalent)</td>
<td><strong>Minimum</strong></td>
<td>2 GB RAM</td>
<td><strong>Minimum</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Recommended</strong></td>
<td>Intel 5th Generation Celeron N3050 (or AMD equivalent)</td>
<td><strong>Recommended</strong></td>
<td>4 GB RAM</td>
<td><strong>Recommended</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Recommended</strong></td>
<td>Intel 6th generation product family or greater (or AMD equivalent)</td>
<td><strong>Recommended</strong></td>
<td>4 GB RAM</td>
<td><strong>Recommended</strong></td>
</tr>
<tr>
<td><strong>Mac (OS X and macOS) and Linux</strong></td>
<td><strong>Minimum</strong></td>
<td>Intel 4th Generation Celeron 2955U (or AMD equivalent)</td>
<td><strong>Minimum</strong></td>
<td>2 GB RAM or more</td>
<td><strong>Recommended</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Recommended</strong></td>
<td>Intel 6th generation product family or greater (or AMD equivalent)</td>
<td><strong>Recommended</strong></td>
<td>4 GB RAM or more</td>
<td><strong>Recommended</strong></td>
</tr>
<tr>
<td><strong>Chrome OS</strong></td>
<td><strong>Minimum</strong></td>
<td>Intel 4th Generation Celeron 2955U (or AMD equivalent)</td>
<td><strong>Minimum</strong></td>
<td>2 GB RAM or more</td>
<td><strong>Recommended</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Recommended</strong></td>
<td>Intel 6th generation product family or greater (or AMD equivalent)</td>
<td><strong>Recommended</strong></td>
<td>4 GB RAM or more</td>
<td><strong>Recommended</strong></td>
</tr>
<tr>
<td><strong>Apple iOS</strong></td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td><strong>Minimum</strong></td>
</tr>
<tr>
<td>iPad 2017</td>
<td></td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td><strong>Minimum</strong></td>
</tr>
<tr>
<td>iPad 2018</td>
<td></td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td><strong>Minimum</strong></td>
</tr>
<tr>
<td>iPad Air devices</td>
<td></td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td><strong>Minimum</strong></td>
</tr>
<tr>
<td>iPad Pro Devices: 9.7”, 10.5”, and 12.9”</td>
<td></td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td><strong>Minimum</strong></td>
</tr>
</tbody>
</table>

**Note:** iPad mini devices are not supported.

NA—See the Important Notes that follow the table.
**Important Notes**

**Tablet/Netbook/Chromebook Devices**

Because tablet/Netbook/Chromebook devices are not easily configurable for memory and storage (disk space) upgrades, DRC recommends that these devices be streamlined for the DRC INSIGHT App when used for testing.

To achieve this goal, all applications and features that are unnecessary for testing should be removed, turned off, or disabled to ensure that the maximum amount of device memory is available for testing. This includes services such as Bluetooth (unless a Bluetooth keyboard or mouse is needed), GPS, and power saving modes that reduce performance to maximize battery life. DRC also recommends rebooting these devices before testing. These activities help free available memory. Devices that lack sufficient memory during testing may experience issues.

**IPA Software**

Intelligent personal assistant (IPA) software, such as Siri for iOS and macOS, or Cortana for Windows 10, should be disabled during testing for the appropriate devices. In some cases, this functionality can be disabled automatically using administrator controls such as Mobile Device Management (MDM) software. If IPA software is not disabled, the testing site is responsible for ensuring the security and integrity of the test by actively monitoring that students are not using this capability during the test.

**Chrome OS Support and Chrome Devices**

DRC offers the following levels of support for Chrome OS for the 2018–2019 testing season:

- Full Support for the current stable channel level
- Best Effort Support for stable channel levels between level 66 and the current stable channel level
- End of Support (no support) for stable channel levels below 66

Based on these support levels, DRC recommends replacing any Chrome devices that have reached, or will reach, End of Life (EOL) within the 2018-2019 school year. For reference, use the following link to help determine the EOL of a specific Chrome device: [https://support.google.com/chrome/a/answer/6220366](https://support.google.com/chrome/a/answer/6220366)

**Automatic Operating System Updates and Other Background Processes**

Operating system vendors such as Google, Microsoft, and Apple are moving to a model where operating system updates occur automatically in the background. Update processes running in the background on testing devices consume CPU and memory and can affect the testing experience—audio playback may be choppy and Speaking test responses may be distorted. To avoid this situation, verify that no background processes are running on testing devices during testing. Also, if a testing device is set to accept operating system updates automatically, verify that it has the most current DRC-supported version of the operating system before the test session starts.
### Additional DRC INSIGHT Device Specifications

#### Supported Accessories
- Mouse
- English language keyboard (internal and external, wired and wireless)
- Touchpad
- Headphones
- Microphone
- Earphones
- Earbuds
- Stylus for touch devices
- Other input devices as supported for accommodations (determined in conjunction with each state department of education)

The input device must allow students to select and deselect; drag items; highlight text, objects, and areas; enter letters, numbers, and symbols; use the Shift, Tab, Return, Delete, and Backspace keys.

#### Other
- Smart Board interfaces are not supported

#### Internet Connectivity
- Devices must be able to connect to the Internet using wired or wireless networks

#### Wi-Fi Recommendations
- The maximum number of devices a Wireless Access Point (WAP) can support varies depending on the manufacturer and model of the WAP device being used for testing. DRC recommends never exceeding 80% of the maximum capacity of the WAP specified by the manufacturer. For example, for a WAP device with a maximum capacity of 20 concurrently connected devices, DRC recommends that no more than 16 devices be connected concurrently. If the number of concurrently connected devices is expected to exceed this threshold, additional WAPs should be implemented. Note that all other networking hardware must be able to accommodate the maximum number of devices that could potentially be connected to the wireless network concurrently.

If you plan to test using a wireless network, complete a wireless site survey to ensure that there is sufficient wireless coverage in testing areas. This survey should address coverage and verify that students can take the test in the same area of the building at one time (device density). The survey should account for Internet bandwidth and other traffic in the building at the time of testing, including LAN (wireless and wired) traffic and WAN traffic.

#### Power Supply

<table>
<thead>
<tr>
<th>Minimum</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>For battery devices, a fully charged battery with a two-hour life</td>
<td>Device connected to a plugged-in power supply</td>
</tr>
</tbody>
</table>

#### Accommodations
- A COS Service Device is required for HVA, TTS, and VSL, which have increased memory and disk space requirements (see DRC Central Office Services (COS) Service Device Requirements)
DRC Testing Site Manager (TSM) Device Requirements
For 2019–2020, the majority of sites will test using COS Service Devices. During this time, sites that still have a need to test using a TSM should refer to the Supported System Requirements for the Testing Site Manager (TSM).

DRC Central Office Services (COS) Service Device Requirements
The table on the following page describes the processor, available memory (RAM), available LAN bandwidth, and available disk space requirements for a COS Service Device (available in 64-bit only) based on the number of testers testing concurrently. The Recommended level is required for testing with accommodations such as HVA, TTS, and VSL because of the size of video and audio files.

The 64-bit COS Service Device software works with non-touch Windows desktop and laptop devices, non-touch Mac (OS X and macOS) desktop and laptop devices, and Linux desktop and laptop devices. The COS Service Device software is not available for 32-bit operating systems.
## DRC Central Office Services (COS) Service Device Requirements (cont.)

<table>
<thead>
<tr>
<th>Supported OS/Devices</th>
<th>Number of Concurrent Testers</th>
<th>Processor</th>
<th>Available Memory</th>
<th>Minimum Available LAN Bandwidth</th>
<th>Available Disk Space</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>64-bit Windows</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Up to 450</td>
<td>Minimum Dual-core i3 at 2.4 GHz or equivalent Recommended Dual-core i5 at 2.4 GHz or equivalent</td>
<td>Minimum 2 GB RAM</td>
<td>200 Mb</td>
<td>Minimum 10 GB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Minimum 2x dual-core i5 at 2.4 GHz or equivalent Recommended 2x dual-core i5 at 2.4 GHz or equivalent</td>
<td>Recommended and Audio Accommodations 4 GB RAM</td>
<td>400 Mb</td>
<td>Recommended and Audio Accommodations 20 GB or more</td>
</tr>
<tr>
<td></td>
<td>Over 900</td>
<td>4x dual-core i5 at 2.4 GHz or equivalent</td>
<td>8 GB RAM</td>
<td>800 Mb</td>
<td></td>
</tr>
<tr>
<td><strong>64-bit macOS (10.11, 10.12, and 10.13)</strong></td>
<td>Up to 400</td>
<td>Minimum Dual-core i3 at 2.4 GHz or equivalent Recommended Dual-core i5 at 2.4 GHz or equivalent</td>
<td>Minimum 2 GB RAM</td>
<td>200 Mb</td>
<td>Minimum 10 GB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Minimum 2x dual-core i5 at 2.4 GHz or equivalent Recommended 2x dual-core i5 at 2.4 GHz or equivalent</td>
<td>Recommended and Audio Accommodations 16 GB RAM</td>
<td>400 Mb</td>
<td>Recommended and Audio Accommodations 20 GB or more</td>
</tr>
<tr>
<td><strong>64-bit Linux 14.04, 16.04, and 18.04</strong></td>
<td>Up to 450</td>
<td>Minimum Dual-core i3 at 2.4 GHz or equivalent Recommended Dual-core i5 at 2.4 GHz or equivalent</td>
<td>Recommended 7.5 GB RAM for 14.04 3.6 GB RAM for 16.04</td>
<td>400 Mb</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Minimum 2x dual-core i5 at 2.4 GHz or equivalent Recommended 2x dual-core i5 at 2.4 GHz or equivalent</td>
<td></td>
<td></td>
<td>Recommended and Audio Accommodations 20 GB or more</td>
</tr>
</tbody>
</table>
**DRC Software Support Policy**

When a software vendor, such as Microsoft or Apple, ends support for an operating system (or level), they discontinue free security updates for that software. This can present large and immediate security and support risks to the software’s users. As a result, DRC strongly recommends that all clients affected by the end of support process begin the transition as soon as possible to allow sufficient time for the process.

**Support Timeline**

To accomplish the dual goals of minimizing security risks to DRC clients while making necessary software changes, DRC has established a multi-phase support timeline for the transition from an unsupported operating system or level to a supported operating system or level.

**Note:** DRC assumes no responsibility or liability for software transition processes at testing sites.

**Phases 1 and 3: Best Effort Support**

The DRC Support team will help troubleshoot issues reported concerning the operating system or level and DRC software applications as best we can, but DRC cannot guarantee a resolution.

If a problem is uncovered, DRC Support will report the issue to DRC Development. Again, we cannot guarantee a fix, software update, or resolution timeline for software fixes or updates. If DRC determines that an issue is related to a client’s network, hardware, or third-party software, the client must obtain support directly from the software vendor or the hardware manufacturer.

**Best Effort Support occurs at both ends of the software lifecycle.**

- **Phase 1:** After DRC software testing begins and before the software is fully supported by DRC. DRC offers Best Effort Support for any new version of a supported operating system (OS) product within 30 days of public availability of the OS product version, or by the next planned common or client-specific release date of the DRC application, whichever duration is greater.

- **Phase 3:** After the software is no longer supported by the vendor and before the end of DRC support. Once the OS product version has reached the end of vendor support, DRC offers Best Effort Support until the next planned common or client-specific release date of the DRC application, at which point it is restricted from use unless DRC chooses to extend support.

**Phase 2: Fully Supported**

When an OS product is on the DRC supported product list, DRC performs application testing for all major versions of the product publicly supported by the product vendor and for all minor versions of the product when DRC deems testing is necessary. Any new version of a supported OS product will be Fully Supported by all DRC applications within 90 days of public availability of the version of the OS product, or by the next planned common or client-specific release date of the DRC application, whichever duration is greater.

**Phase 4: End of Support**

The next release of DRC software applications will not work with the unsupported operating system or level. It is restricted from use.

The table that follows indicates the current supported operating system levels for DRC INSIGHT. It also provides a timeline for changes in terms of the various support phases.
## DRC INSIGHT Software: Supported Operating System Levels and Support Timeline

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Level</th>
<th>Operating System Level</th>
<th>Phase 1: Best Effort Support</th>
<th>Phase 2: Fully Supported (1)</th>
<th>Phase 3: Best Effort Support</th>
<th>Phase 4: End of Support (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows</td>
<td>Windows 7, SP1</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows 8.1</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows 10 Semi-Annual Channel servicing options (3)(4)</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows 10 in S mode</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows Server 2008, R2 SP1</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows Server 2012</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows Server 2012, R2</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows Server 2016</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows Server 2019</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>(anticipated March 2019)</td>
</tr>
</tbody>
</table>

1. DRC recommends using operating system levels that are Fully Supported.
2. When End of Support occurs during a typical testing cycle, DRC will continue to provide Best Effort Support until the testing cycle ends. DRC recommends that sites upgrade to a fully supported level before the testing cycle begins.
3. DRC fully supports the most recent version of Windows 10 available for the Semi-Annual Channel servicing options within 90 days of public availability of the new version. DRC will offer Best Effort support for previous versions of Windows 10 available for the Semi-Annual Channel servicing options that Microsoft maintains support for with servicing updates. For details, see the Microsoft Windows 10 version support website and https://support.microsoft.com/en-us/help/13853/windows-lifecycle-fact-sheet.
4. DRC currently supports the Home, Pro, Enterprise, and Education editions of Windows 10.
DRC INSIGHT Software: Supported Operating System Levels and Support Timeline (cont.)

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Level</th>
<th>Incoming/Current</th>
<th>Outgoing/Ending</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mac (OS X and macOS)</td>
<td>OS X 10.11</td>
<td>Phase 1: Best Effort Support</td>
<td>Phase 2: Fully Supported (1)</td>
</tr>
<tr>
<td></td>
<td>macOS 10.12</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>macOS 10.13</td>
<td></td>
<td>X (3)</td>
</tr>
<tr>
<td></td>
<td>macOS 10.14</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Linux</td>
<td>Ubuntu 14.04, LTS version, with 64-bit Gnome 3.4, Unity Shell</td>
<td>Phase 1: Best Effort Support</td>
<td>Phase 2: Fully Supported (1)</td>
</tr>
<tr>
<td></td>
<td>Ubuntu 16.04, LTS version, with 64-bit Gnome 3.4, Unity Shell</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Ubuntu 18.04, LTS version with Gnome Shell</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>iOS (4)</td>
<td>11.x latest version</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>12.x latest version</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Chrome</td>
<td>Chrome OS recent stable channel</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

(1) DRC recommends using operating system levels that are Fully Supported.
(2) When End of Support occurs during a typical testing cycle, DRC will continue to provide Best Effort Support until the testing cycle ends. DRC recommends that sites upgrade to a fully supported level before the testing cycle begins.
(3) The macOS 10.13 software is currently Fully Supported for testing devices. To use a TSM with macOS 10.13, you must use the URL https://localhost:8443 to access the TSM.
(4) See the iOS Release Strategy Note that follows.
iOS Release Strategy Note
The iOS release strategy provides both major and minor release versions.

- Major release versions are indicated by the number to the left of the decimal point. For example, release 11.x and release 12.x are major release versions.

- Minor release versions are indicated by the number to the right of the decimal point. For example, release 11.1 and release 11.2 are minor release versions of major release version 11.

DRC supports both types of release versions.

- DRC fully supports the most recent major release version of iOS within 90 days of public availability of the new version. During the 90 days of testing/verification, DRC provides Best Effort Support of the new major release version.

- DRC provides Best Effort Support for minor release versions of iOS as soon as they are made available to the public and will fully support these versions as soon as DRC completes testing/verification. DRC will attempt to fully support minor release versions within 30 days of their release.

Note: DRC will offer Best Effort Support for any previous versions of iOS for which Apple maintains support.

DRC COS Service Device Software/Network Requirements
The DRC COS Service Device software requirements are generally the same as the DRC INSIGHT software requirements with the exceptions listed below:

- The COS Service Device software cannot be installed on an iOS or Chrome device. The COS Service Device software will work with INSIGHT software installed on these devices.
- The COS Service Device software should not be installed on mobile or touch-screen devices.
- The COS Service Device should be connected to the network through a wired connection.
Trademarks

The following are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries:

- Internet Explorer
- Microsoft
- Microsoft Edge
- Windows
- Windows Vista
- Windows XP
- Windows 7
- Windows 8
- Windows 10
- Windows 10 in S mode

The following are trademarks or registered trademarks of Apple Corporation in the United States and/or other countries:

- Apple
- iOS*
- iPad
- Macintosh
- Mac
- OS X and macOS
- Safari

*iOS is a trademark or registered trademark of Cisco in the United States and other countries and is used under license.

The following are trademarks or registered trademarks of Google Corporation in the United States and/or other countries:

- Chrome
- Chrome OS
- Chromebook
- Google Play

Firefox is a trademark or registered trademark of Mozilla Corporation in the United States and/or other countries.

Linux is a registered trademark of Linus Torvalds.

Ubuntu and Canonical are registered trademarks of Canonical Ltd.

Gnome is a trademark of the Gnome Foundation.