

Enhancements in JAWS 2019.1906.10 (June 2019)

The following is a list of improvements made in JAWS 2019 between the April 2019 update and the June 2019 update.

Enhance Support for Accessing Comments and Revisions in Braille

For users who primarily use braille when navigating Word documents, the following changes greatly improve the experience when attempting to access various document features like comments, revisions, footnotes, and endnotes from the braille display.

When the cursor is on a comment, the letter C is now displayed in the last status cell. In addition, as with previous versions, R is still displayed to indicate revised text, and if Track Changes in Word is configured to display all markup, the letters i and r will be displayed to indicate inserted text and the letters d and r will be displayed to show deleted text.

As you read a document, text to which a comment has been applied, text revisions, and footnote and endnote references are underlined using dots 7 and 8 in the main document pane. Pressing a cursor router twice quickly on the underlined text displays a flash message containing details about the comment, revision, footnote or endnote. For example, if you press a cursor router on a revision that includes deleted text, JAWS and Fusion displays a message telling you that the following text has been deleted, and shows the deleted text. Pressing **INSERT+TAB** while the cursor is on commented text, text revision, footnote or endnote reference will speak this information as well.

If you press a cursor router twice quickly on any text in the document not underlined in braille, then only font and attribute information such as bold, italic, and underline is displayed. This is similar info to what is spoken when pressing **INSERT+F**.

Support for Reading Math Content in Kindle Books

You can now use JAWS and Fusion to study math equations included in Kindle books opened in the Amazon Kindle for PC app using both speech and braille. For braille users, math expressions are shown using the Nemeth braille code, which is a system exclusive to English.

Reading math in the Kindle app works very similar to accessing math on web pages. When you encounter Math content in a Kindle book, JAWS describes the expression, followed by the message "math content." If you are using a braille display and JAWS is configured for one of the English Contracted Braille modes, the message "Math" is displayed followed by the expression.

Pressing **ENTER** while focused on the math content opens the Math Viewer where you can explore the expression in greater detail in both speech and braille by doing the following:

- To move between parts of the expression, use the **LEFT** and **RIGHT ARROW** keys.
- To focus in on a partial expression, press **DOWN ARROW**.

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- To return to the whole expression, press **UP ARROW**.
- To read all the partial expressions at the current nesting level, press **INSERT+UP ARROW**.
- To read the current partial expression, press **NUM PAD 5** or **INSERT+NUM PAD 5**.
- From within the Math Viewer, press **ESC** or **ALT+F4** to exit.

Changed How JAWS works with the Access Bridge for Java Applications

Now that Oracle has changed the licensing terms for the Standard Edition of the Java Platform, many customers are looking for alternatives. One of these alternatives is the [AdoptOpenJDK](#).

Previously, JAWS would only load the WindowsAccessBridge DLL from the Windows System32 directory. This worked with the Oracle Java Runtime Environment because it always installed the WindowsAccessBridge DLL in that location. The alternative Java Runtime Environments do not install the WindowsAccessBridge DLL in that location.

JAWS has been modified so that it uses three different strategies for locating the WindowsAccessBridge DLL.

1. The path to the WindowsAccessBridge DLL can be specified by the Windows Registry. It looks for a registry entry named WindowsAccessBridgeDllPath in HKEY_CURRENT_USER\SOFTWARE\Freedom Scientific\JAWS\Common and HKEY_LOCAL_MACHINE\SOFTWARE\Freedom Scientific\JAWS\Common. If the registry entry exists and the file indicated by the registry entry exists, JAWS will load the WindowsAccessBridge DLL from that location.
2. If strategy 1 did not succeed, JAWS will search for the WindowsAccessBridge DLL in the Windows System32 directory.
3. If strategy 2 did not succeed, JAWS will search for the WindowsAccessBridge DLL in the directories listed in the PATH environment variable.

Other Changes

- In Adobe Acrobat Reader, resolved a reported issue where the virtual buffer was empty after opening a PDF document and the Adobe options to "Enable Protected Mode at startup" and "Run in AppContainer" were selected.
- Resolved issues where Fusion and ZoomText (Utilities Shortcuts) would remain in Start Menu searches, even after uninstalling the software.
- Addressed known issues where it was sometimes necessary to configure JAWS to use the classic settings for some retail versions of Office 2016 and 2019 in order for certain features like spellcheck and autocomplete to work as expected.
- When the cursor is on a revision in a document such as inserted or deleted text as well as a comment, pressing **INSERT+TAB** now speaks additional details about the revised text.

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- Similar to Word, if you move the cursor to AutoCorrected text in an editable message in Outlook, JAWS now speaks the message about pressing the Office command, **ALT+SHIFT+F10**, to open the menu of AutoCorrect options.
- In the Outlook Calendar, addressed issues using JAWS with the Schedule View.
- In the most recent updates to Outlook 365, resolved issues where the **ALT+1** through **4** commands were not reading message headers and braille was not working as expected in the To, CC, and BCC fields.
- In applications such as Microsoft Office or the Windows Mail app, when pressing **INSERT+5** on the numbers row to check the foreground and background colors, JAWS now says "default" if no explicit text or background colors are set.
- Resolved a reported issue where the setting to allow web application reserved keystrokes was not working in Chrome. When this option is enabled in Settings Center or Quick Settings, JAWS keystrokes that are also defined as keyboard shortcuts on certain websites like Facebook are passed directly to the web application instead of performing the JAWS command.
- When composing a message in Gmail using Chrome, addressed an issue where a Say All (**INSERT+DOWN ARROW**) was not working.
- Removed extraneous "clickable" announcements when reading various web pages in Chrome.
- Updated the Keyboard Help and Commands Search descriptions for the **INSERT+A** keystroke to correctly state that when pressed twice quickly in Chrome or Firefox, the address of the current web page is displayed in the Virtual Viewer. Note that you can press **ALT+D** in all browsers to move focus to the address bar to enter a website address.
- If you encounter an element on a web page with a defined ARIA controls relationship, JAWS will no longer say "use **JAWSKEY+ALT+M** to move to controlled element" by default. In most cases, the target of the controls relationship is adjacent to the element or does not provide any useful information.
- When domain-specific scripts such as Google Docs are loaded and **INSERT+Q** is pressed twice quickly to display information in the Virtual Viewer, resolved a reported issue where the wrong configuration information was displayed.
- If focus is in a web dialog box in Chrome and you perform an action that opens a second dialog box, resolved an issue where focus was not automatically placed into the new dialog box.
- Resolved several issues using JAWS with the Notepad++ text editor. Some key improvements include: reading selected text using **INSERT+SHIFT+DOWN ARROW**, indicating autocomplete suggestions in speech and braille, correctly reading line numbers, and correctly reading spaces and tabs when navigating by character.
- Improved how JAWS works with the PuTTY and SecureCRT SSH and Telnet applications. Command output is now properly echoed and caret tracking is much more accurate.
- Resolved an issue introduced with a change in the April Update, where group names in the Windows Start menu and Windows Explorer were not being shown correctly in braille.

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- The Liblouis braille translator used by JAWS and Fusion has been updated to version 3.9.0.
- Addressed a reported issue in Thunderbird 60 where JAWS was skipping text in some messages.
- Added a new Dictionary entry for "S M E) without the spaces so that JAWS and Fusion will correctly pronounce "Subject Matter Expert."

JAWS Downloads / Links

- **Connected:** [J2019.1906.10.400.exe](#)
- **Offline:**
 - [J2019.1906.10.400-Offline-x64.exe](#)
 - [J2019.1906.10.400-Offline-x86.exe](#)