



Oregon eFOG User Guide

1. About the eFOG Application

This User Guide is for the Oregon Tactical Interoperable Communications (TIC) electronic Field Operations Guide (eFOG) application (app). The eFOG app was developed by Science Applications International Corporation (SAIC) at the request of the State of Oregon Statewide Interoperability Coordinator (SWIC).

- Release: Version 1.5, April 2013

2. Minimum Requirements

The minimum device requirements for the eFOG app are:

Apple Mobile Devices
<ul style="list-style-type: none"> • Supported devices: iPad, iPad mini, iPhone, and iPod Touch • Operating system: iOS 5.1.1 and later • Memory: 8 GB minimum. 16 GB or more recommended. • Screen size: 4.86 in. x 2.31 in. (iPod Touch)
Android Mobile Devices
<ul style="list-style-type: none"> • Supported devices: Android based mobile devices • Operating system: Android 4.1 and later • Memory: 8 GB minimum. 16 GB or more recommended. • Screen size: 5.15 in. x 3.71 in. (MOTO Droid Razr)

3. eFOG Installation & Removal

3.1. App Installation

The eFOG app is installed just like your other apps and can be downloaded from the app store supporting your device. If you have an Apple product, touch the icon on your device screen matching the left column below. If Android, touch the icon matching the right column:

Apple Devices	Android Devices
	

Next, type "Oregon eFOG" in the app store's search box to locate the eFOG app. Then touch the eFOG icon to download and install the app.

3.2. App Removal:

Apple Devices. Touch and hold the eFOG icon until the icons appear to wobble on the screen. Touch the small black (x). A pop-up dialogue box warns "Deleting eFOG will also delete all of its data." Press **Delete** and the eFOG app will be removed from your Apple device.

Android Devices. Touch the **Settings** icon on your screen. Next select the **Application manager** listing. Then press the **Uninstall** button. This will delete the app from your device.

4. Operation & Navigation

This section describes how to operate the eFOG app. This includes viewing and searching for content, using jump buttons, and customizing the app by adding personal favorites and notes. Navigating the app should be familiar and easy if you already use a touch-screen smartphone or other mobile device. Hardware specific instructions are not included in this manual.

4.1. Home Menu

The eFOG Home menu uses accordion-style entries, allowing you to quickly expand and collapse menu items to reveal sub-menu information, as shown in Figure 1. The accordion style is designed to efficiently manage the limited screen space on mobile devices. Pressing the Home button on the bottom navigational bar at any time will return you to this menu.

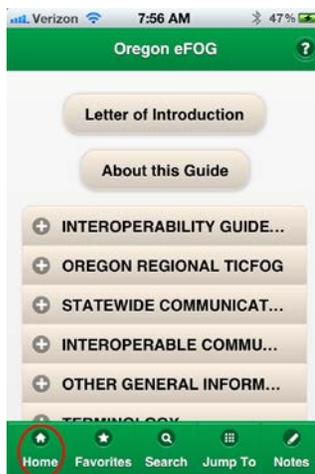


Figure 1: Home Menu

Expand/collapse menu items. Touching a menu item containing a plus sign (+) expands it to reveal the sub-menu. Touching it again will collapse the sub-menu items back to a single entry to save space. When another Home menu item is pressed, previously open menu items will collapse and only the newly touched menu item will be shown in expanded form.

4.2. Font Size

Increase/decrease font size. To make viewing easy, you can select from five different font sizes. Initial font size defaults to the middle level. Increase the size of the alphanumeric text characters by touching [A+] button on the top right corner. To decrease font size, touch the [A-] button. See Figure 2. The size of text in maps and charts can be increased by using the zoom function discussed below.

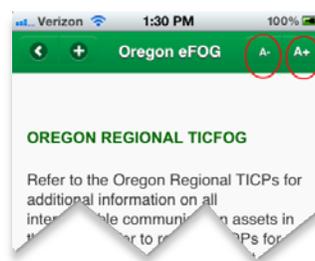


Figure 2: Changing Font Size

4.3. Zoom

You can also adjust the zoom level for images such as maps and charts.

Zoom in/out on images (for iOS devices). While browsing, you may encounter an image that is indistinct. Images with a green plus sign (+) can be zoomed to reveal more detail. See Figure 3a. Zoom in for a closer look by tap-touching the image. The app displays the image in a larger view. You can then use two fingers to widen a pinch zoom and see the image at even higher magnification. Similarly, use two fingers to narrow the pinch zoom to view the image at a lower magnification. Using a single finger allows you to pan the image to reveal different portions of the picture. Press the (x) sign at the top left corner to close the image and return to the prior operation.



Figure 3a: iOS Device Image Zoom

Zoom in/out on images (for Android devices).

While browsing, you may encounter an image that is indistinct. Images with a green plus sign (+) can be zoomed to reveal more detail. Zoom in for a closer look by tap-touching the image. The app displays the image in a larger view. See Figure 3b. You can then touch the magnifying glass icon with the plus sign to see the image at a higher magnification. Similarly, touch the magnifying glass icon with the minus sign to view the image at a lower magnification. Touch and hold with a single finger to pan the image and reveal different portions of the picture. Press the (x) sign at the top left corner to close the image and return to the prior operation.



Figure 5b: Android Device Image Zoom

4.4. Back Button

To return to a previously viewed screen, touch the Back button (<) as shown in Figure 4. The Back button will only appear when there is a previous screen available. Pressing the Home button will reset all previously recorded browsing activities and the Back button will not be shown. If navigating to outside the eFOG app, for example, by pressing a link that sends you to an Internet browser (see Hyperlink section), simply exit the browser and press the eFOG app icon to return.



Figure 4: Back Button

4.5. Content Scrolling

Text scrolling. Once in a section, you can move through text using a single finger swipe motion. Touch anywhere on the screen and move your finger to scroll the screen up or down.

Table vertical scrolling. Some tables within the app are long and can span several screens. You can scroll within a table to view the rows without scrolling the entire app screen. To activate table scrolling, simply tap anywhere on the table once, then scroll by flicking a finger up or down to reveal the table rows. An indicator on the right border of the table view moves vertically as the screen is scrolled up and down. See Figure 5. To exit the table scrolling mode, simply tap-touch on either side of the table outside the scrolling area. You can then resume scrolling the app screen.

Radio System Name	Make / Model	Description
Baker Co. Red Net	Motorola/ Kenwood	VHF
Baker Co. Blue Net	Motorola/ Daniels/ Kenwood	VHF
Law		VHF
Fire		VHF
City Public		

Figure 6: Table Vertical Scrolling

Department	Dept. #	Fire 1	Fire 2	EMS 1	Av

Way Name	Owning Agency	Fixed / Mobile	24/7 Phone #	Service Area

Figure 7: Table Horizontal Scrolling

Table horizontal scrolling. Some tables of the eFOG can be wide and so not all columns are shown at the same time on the screen, especially for devices with small screens. You can horizontally scroll to view the columns of a particular table. To activate table horizontal scrolling, tap-touch anywhere on the table once, then scroll by flicking a finger side to side to view the different table columns. An indicator on the bottom border of the table view moves horizontally as the screen is scrolled side to side. See Figure 6. To exit table scrolling mode, tap-touch on either side of the table outside the scrolling area.

4.6. Favorites

You can mark a section of the app as a “favorite”, making it easy to find in the future. Adding frequently used sections to your Favorites enables you to create a personalized field guide that is customized for your location and responsibilities.



Figure 8: Adding a New Favorite

Add a favorite. While viewing the eFOG, touch the plus sign (+) on top of the navigational bar to create a favorite, as shown in Figure 7. The app will prompt for confirmation. You can either touch Cancel to abort or OK to accept the Favorite. After the recording of the Favorite location is done, you will be notified by another message that the Favorite is saved. The app automatically uses the section or subsection header to label the Favorite entry. To view your saved Favorites, touch the Favorites button on the bottom navigational bar.

Edit a favorite. Once saved, you can also edit the labels of your Favorites. While viewing your Favorites, touch the Edit button on upper right corner. You can then edit any of the labels by touching the label, which will bring up a keyboard. Press the Save button to record your changes, as shown in Figure 8.



Figure 9: Editing or Deleting a Favorite

Delete a favorite. While editing Favorite labels, you can delete favorite entries by touching the (x) button on the right side of an entry. Press the Save button to record your changes.

4.7. Jump To

Use the Jump To button as an easy way to quickly jump to Charts, Maps and Tables. The button is displayed at the bottom navigational bar.



Figure 10: Jump To Button

View Charts and Maps. Touch the Jump To button to easily get to Charts, Maps, or Tables. Charts and Maps are shown in small thumbnails in two separate lists, as shown in Figure 9. Touching any of the thumbnails will take you to where the image appears in the app.

View Tables. Similarly, touching the Tables label reveals a list of the all tables in the app. Tap-touching any entry takes you to the corresponding table in the app.

4.8. Search

You can use Search to find particular instances of words or numbers. Touch the Search button located on the bottom navigational bar. Then type keywords into the search field and select Go, as shown in Figure 10. Search results are shown in a list, with an indication of where the instance(s) have been found and the number of terms matched (only for multiple keywords search). Touching a found entry takes you to the app text, where each matching word is highlighted in a different color, as shown in Figure 11. Search keywords are case insensitive and are matched against text found in the body of the app.

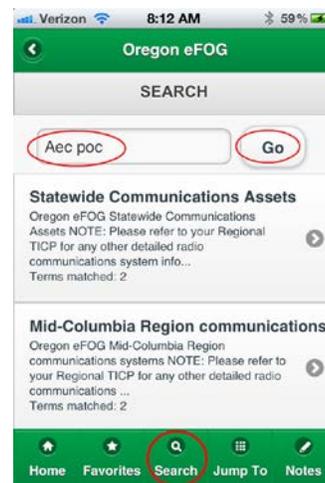


Figure 11: Search Input

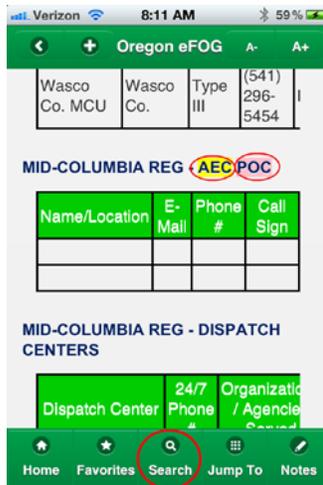


Figure 12: Search Result Highlighting

4.9. Notes

You can further personalize and add value to your eFOG by using the Notes feature to capture information while in the field and during exercises. Touch Notes on the bottom navigational bar. Previously saved notes will be listed as well as a button to add a new note.

Create notes. Touch the (+) Add button to open for editing a new note with Title and Content fields. Touch either field to bring up a keyboard for adding text. Press the Save button to save your note, as shown in Figure 12.



Figure 13: Adding and Saving a New Note

Edit existing notes. You can also edit previously saved notes. Touch the title of the desired note on the Notes page to retrieve the contents. You can then edit or delete the note, as shown in Figure 13.

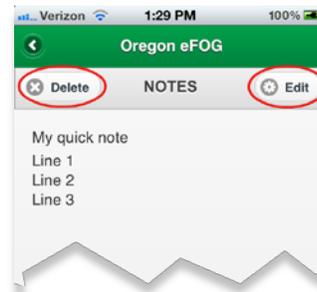


Figure 14: Editing and deleting notes

4.10. Hyperlinks

Web links. A list of important Internet web links can be found by touching the Web Site Links entry in the Home menu. Touch an entry on this list to launch an Internet browser session and be taken to the web site. To return to eFOG, simply exit the browser and press the eFOG app icon to continue.

Phone number. If your device can make telephone calls, touch an underlined (hyperlinked) phone number to place a call, as shown in Figure 14. If your device does not have native calling capability, such as an iPod Touch or iPad, you will be offered the option to add the number to your Contacts.



Figure 15: Placing a Call using a Hyperlinked Phone Number

Email address. Touch a hyperlinked email address to send an email. Your device's default composes email screen will be shown with the "To:" field populated. See Figure 15. Complete the email message and send as you normally would on your device.



Figure 16: Sending Email from Hyperlinked Email Address

4.11. Help

The Help feature contains information regarding how to use the eFOG app, including viewing and searching for content, using jump buttons, and customizing the app by adding personal favorites and notes. Touch the (?) button on the upper right corner of the top navigational bar to access this information, as shown in Figure 16.



Figure 17: Help

5. Send or Print eFOG Screen

Send or print an eFOG screen by first taking a snapshot of it. Here's how to do it:

1. iOS Devices



Figure 18: iOS Device Buttons for Taking a Screenshot

- Press the Home and Sleep buttons at the same time to take a screenshot. See Figure 17. You'll hear the camera shutter sound and your screen will be captured.
 - Go to Photos on the main device screen. Look in Camera Roll or Saved Photos for your screenshot and tap the screenshot image.
 - Press the Share button on the bottom bar. Select send or print as desired.
- Android devices.** Different Android devices have different ways for capturing screenshots. For Android devices running OS v4.0 and later, here's how to capture a screenshot:



Figure 19: Android Device Buttons for Taking a Screenshot

- a. Hold down the Volume key and press the Power button, as shown in Figure 18. You'll hear a sound indicating your screen has been captured.
- b. Go to the Gallery application on the device and look in Albums.
- c. Tap the screenshot image you want.
- d. Press the Share button on the top bar. Select the desired option to send or share the screenshot.

6. Troubleshooting

If the eFOG app does not work as expected, try these common troubleshooting tips:

1. **eFOG response is slow or appears to freeze when pressing a menu button.** App response time will vary depending on the available memory, processor speed, and operating system version of your mobile device, particularly for Android.

Recommendations:

- a. Press a button once and wait to see a response before pressing it again or another button. Touching the same button multiple times may “confuse” the operating system while executing the first command, causing it to hang or error.
- b. On Android systems, turn on touch sounds so you know the app has received your first command and is processing it. Go to **Settings**, and tap **Sound**. Check the box for **Touch**

sounds to play sound when making screen selection.

2. **eFOG app installed but not working properly.** This may be due to incompatibility with a particular device or operating system.

Recommendations:

- a. Confirm the device is supported. Go to the Minimum Requirements section of this guide, and compare your device with the supported list.
 - b. Check the device’s operating system (OS) level to confirm it is supported. Go to the Minimum Requirements section of this guide, and compare your OS with the supported list.
3. **eFOG app starts but “crashes” soon afterward or during an operation.** Insufficient memory may cause the app to crash.

Recommendations:

- a. Check installed device memory to see if the minimum memory requirement is met. Consult the Minimum Requirements section of this guide.
 - b. Check settings for currently used and available memory.
 - c. Remove any running but inactive applications to free up memory.
4. **eFOG app does not rotate with physical orientation of device.** Device and OS settings may keep the app from rotating content display with the rotation of the device view’s orientation.

Recommendations:

- a. Check settings panel for lock that prevent content orientation with device rotation.
- b. Check hard lock switch to undo any orientation locking.
- c. Check soft lock switch to undo any orientation locking.

7. Disclaimer

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