



TEAL 2TAC Updating System Software and Firmware User Guide

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2TAC Updating System Software and Firmware



UPDATING SYSTEM SOFTWARE & FIRMWARE INSTRUCTIONS

Version: 1.6.0 Release date: 18 September 2023

Summary

Follow these instructions to update the software and firmware on the Golden Eagle, Teal 2, and the TAC. While the TAC system software and firmware updates are automatic when connected to a wi-fi network, this may not be ideal if this delays a mission or affects anticipated battery pack charge usage.

Update both the drone and the TAC as soon as possible for optimal system performance and to prevent the automatic update from interfering with any mission needs.

System Requirements

- Access to a wireless network with access to the internet
- Ensure that the system is paired and communicating prior to proceeding
- Use a fully charged battery pack in both the drone and the TAC
- Do not power off the drone or the TAC at any time during the update process

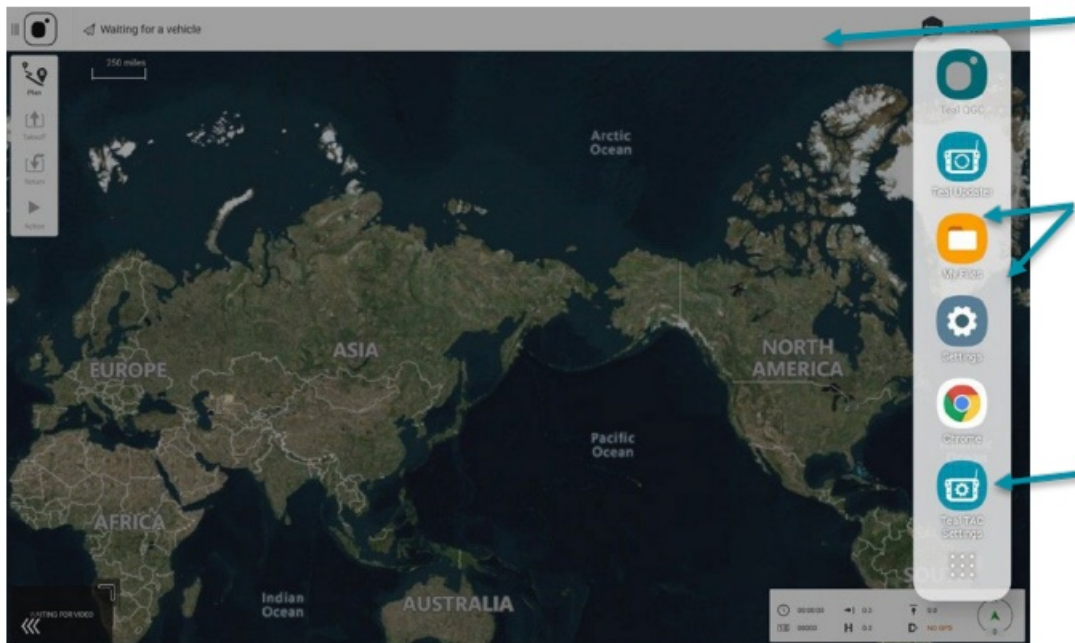
Estimated time: 15-35 minutes depending on individual speed.

After completing the update, make sure Teal Focus Mode is enabled before flying missions for optimal system performance.

STEP 1: Switch active network to Wi-Fi

Follow these steps to update the TAC.

1. Touch anywhere along the top edge of the TAC screen and swipe downward.
2. Touch and slide this gray side-bar menu tab to the left. This exposes the vertical sidebar menu.
3. Touch the **Teal TAC Settings** icon.
4. Under **Network**, Switch the Active **Network** from Drone to Wi-Fi.



5. Connect to Wi-Fi.
6. Reboot the tablet.
7. The TAC should automatically update upon reboot. Proceed to step 2 to confirm the update.

STEP 2: Confirm software version in Teal QGC

Follow these steps to confirm the TAC is updated.

1. Open Teal QGC.
2. Tap the Main Menu icon in the left corner of the screen.
3. Tap Settings at the bottom of the menu.
4. Under General, scroll down to the bottom of the screen.
5. Verify the Teal QGC version is 1.6.0.
6. If the TAC did not update, proceed to step 3.
7. If the TAC is updated, proceed to step 5 to update the vehicle.

Waiting for a vehicle

Application Settings

General
Offline Maps
Microhard
MAVLink

Destination Port: 8080
Destination Protocol: ☒ UDP ☐ TCP
Incoming Port: 8081
Incoming Protocol: ☒ UDP ☐ TCP

Video
Video Source: RTSP Video Stream
RTSP URL:
Aspect Ratio: 1.777777
Disable When Disarmed: ☐
Show Video On Second Screen: ☒ (Requires Restart)

Video Recording
Auto-Delete Files: ☒
Max Storage Usage: 2048 MB
Video File Format: mkv

Picture Settings
Download Full Res Image In Flight: ☐

TealQGC Version
v1.6.0.313

Step 3: Exit Teal Focus Mode

Exit Teal Focus Mode to manually update the TAC if the automatic update failed.



1. Press and hold the tablet power button (not the TAC battery pack) for 1-2 seconds. Two system icons appear: Power Off, Restart, and Teal Focus.
2. Select Exit Teal Focus.
3. Enter the password teamwear (all lowercase, no spaces, no special characters) in the dialog box at the bottom of the screen. The tablet desktop screen automatically loads upon reboot.
4. Proceed to step 4 to complete the update on the TAC.

STEP 4: Update the TAC Software and Firmware

1. From the main tablet desktop screen, tap the narrow side bar on the right and swipe left to open the tablet main menu.
2. Touch the gear icon to open the Settings menu.
3. Scroll to the bottom and select About Tablet.
4. Select Software Information.
5. Select Knox Configure.

6. Select Apply Latest Profile.
7. Select Apply.
8. The screen will rotate 90 degrees and a progress bar and the Teal logo will appear.
9. Proceed to step 5.

Note: If for any reason the update was unsuccessful, a “Couldn’t update profile” error message appears. Repeat step 4 until the update is successful.

STEP 5: Download the Software and Firmware for the Vehicle

Note: The order of the app icons in the sidebar menu will vary by frequency of use and may look different than as shown above. Touching the icon at the bottom of the sidebar menu will show all available apps.

1. Touch anywhere along the top edge of the TAC screen and swipe downward. A very narrow vertical gray side-bar menu tab appears the right edge of the screen.
2. Touch and slide this gray side-bar menu tab to the left. This exposes the vertical sidebar menu.
3. Touch the Teal Tac Settings icon.
4. Make sure that the Active Network is set to WIFI.
5. Touch the Teal Updater icon to launch the app.
6. Select the Check Cloud for New Version button. You should see the 1.6.0 software and firmware update available.
7. Select the Download from Cloud button.
8. You will see a Download Complete notification when finished.
9. You can now reconnect the drone and begin the installation process.
10. Go back into the Teal Settings app and switch the Active Network to Drone from Wi-Fi.
The drone will be reconnected to the TAC. You should see a Connected message at the bottom for the Teal Updater app.

For steps 5 & 6, you may follow along with our instructional video, Firmware Updates: Teal Golden Eagle Drone, that can be found on our website support page at: <https://tealdrones.com/support/training-videos/> or by scanning this QR code:

STEP 6: Update the vehicle and subsystems

1. Select Next to continue.
2. While still in the Teal Updater screen from step 5, you should see a Connected message at the bottom of the screen.
3. Select Next button to update the Golden Eagle and all its subsystems. The system will first prepare the Golden Eagle. This should take less than a minute.
4. Select Next to continue. The system will copy the firmware on the TAC to the Golden Eagle. This may take 5 minutes or more. The system will update all ESCs. Chirping sounds and small movements from the drone are normal.
5. Once all subsystems are updated, you will see a confirmation screen. You will see the message “Drone is now synchronizing and will reboot”.
6. Select Next to continue. The system will update all subsystems. This may take about 5 minutes.
7. Select Next. You will be taken to the first screen and you will see “Connecting To Drone” at the bottom of the screen. The system will attempt to reboot the drone. When completed, you will automatically be taken to the

Fly Screen and the system will automatically reconnect the TAC and drone.

Note: If the vehicle does not automatically reboot, please manually power cycle the drone and confirm the new software version. If any problems persist, please feel free to contact Teal Technical Support.

TEAL DRONES TECHNICAL SUPPORT

For further information or to submit an RMA, please contact us.







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Documents / Resources

	<p>TEAL 2TAC Updating System Software and Firmware [pdf] User Guide 2TAC Updating System Software and Firmware, 2TAC, Updating System Software and Firmwar e, System Software and Firmware, Software and Firmware, Firmware</p>
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References

-  [Training Videos - Teal Drones](#)
- [User Manual](#)