SOFTWARE RELEASE NOTES

VERSION: 1.7.0 RELEASE DATE: 2 April 2024

Summary

1.7.0 is a new software release for Golden Eagle and Teal 2 that introduces new features and performance improvements.

New Features

"Follow Me" Mode

This flight mode enables the aircraft to follow the ground station based on GPS. It provides dynamic adjustability of altitude, distance, and bearing. See the Operator's Manual for details.

GeoPDF Map Support

Teal now enables GeoPDF formatted map importing via the updates Teal Setting App. The process for using GeoPDF maps is the same as traditional map files. See the Operator's Manual for details.

OnDemand SD Card Formatting

Teal QGC now enables you to format the micro SD card installed on the drone. Please be aware that you must not be in a mission or actively recording. The format operation may take some time to process, depending on the size of the SD Card.

Drone Platform Improvements

- Improved video streaming quality and reliability
- Command and control link reliability improvements
- Enhanced system cybersecurity
- Pairing compatibility with Tomahawk Kinesis version 24.06
- General bug fixes

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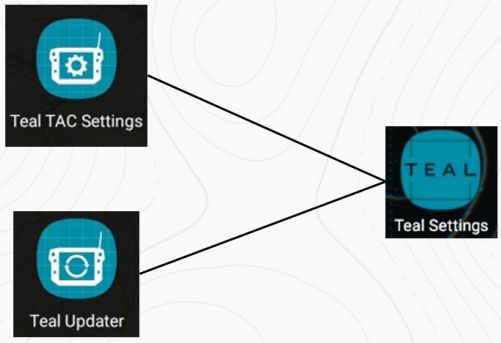
Removal of Teal Updater and Teal TAC Settings App

The capabilities of the Teal Updater and Teal TAC Settings App are now embedded into the Teal Settings App. As result, the Teal Updater and Teal TAC Settings app have been removed in version 1.7.0. Please refer to the new Teal Settings App for all update related operations, including system updates.



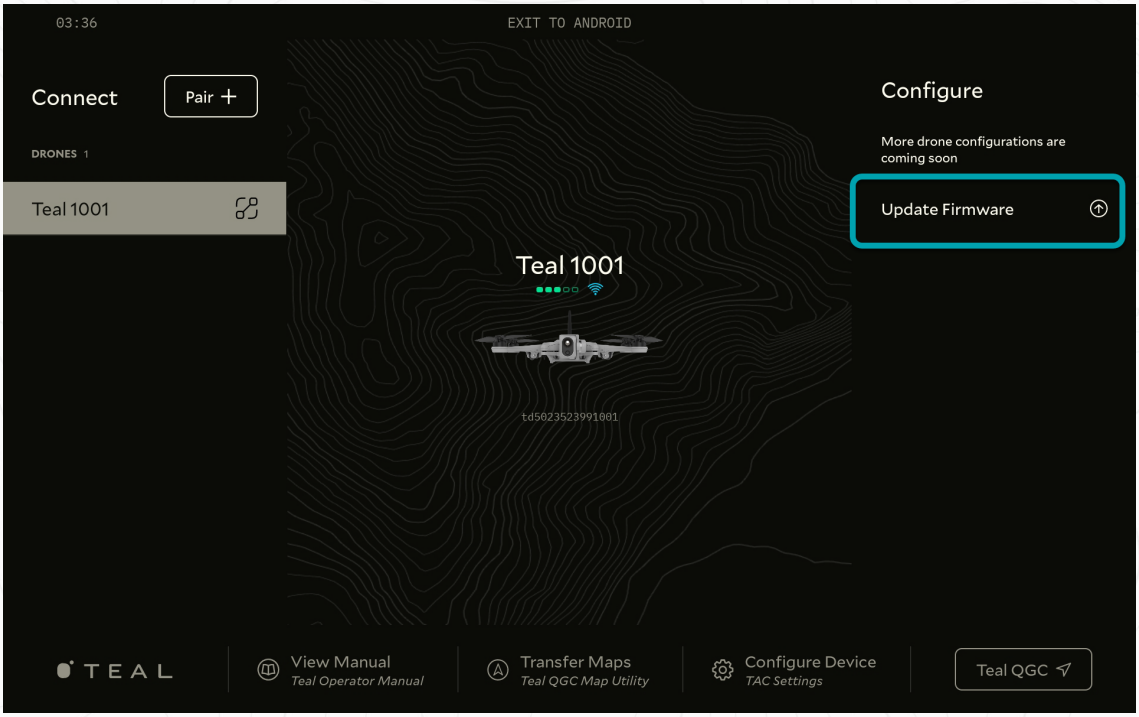
Teal Settings Improvements

Aircraft firmware is now upgraded through the Teal Settings app instead of the Teal Updater app.

- See which channel the radio is operating on. “Configure Device Settings” will show which channel the radio is on
- Added GeoPDF file type for map support
- “Exit” button introduced for Teal Settings. To use, tap the Exit button at the top of the Teal Settings screen. This completely shuts down Teal Settings and the app will not continue to run in the background
- Bug fixes and performance improvements

Firmware Update Instructions

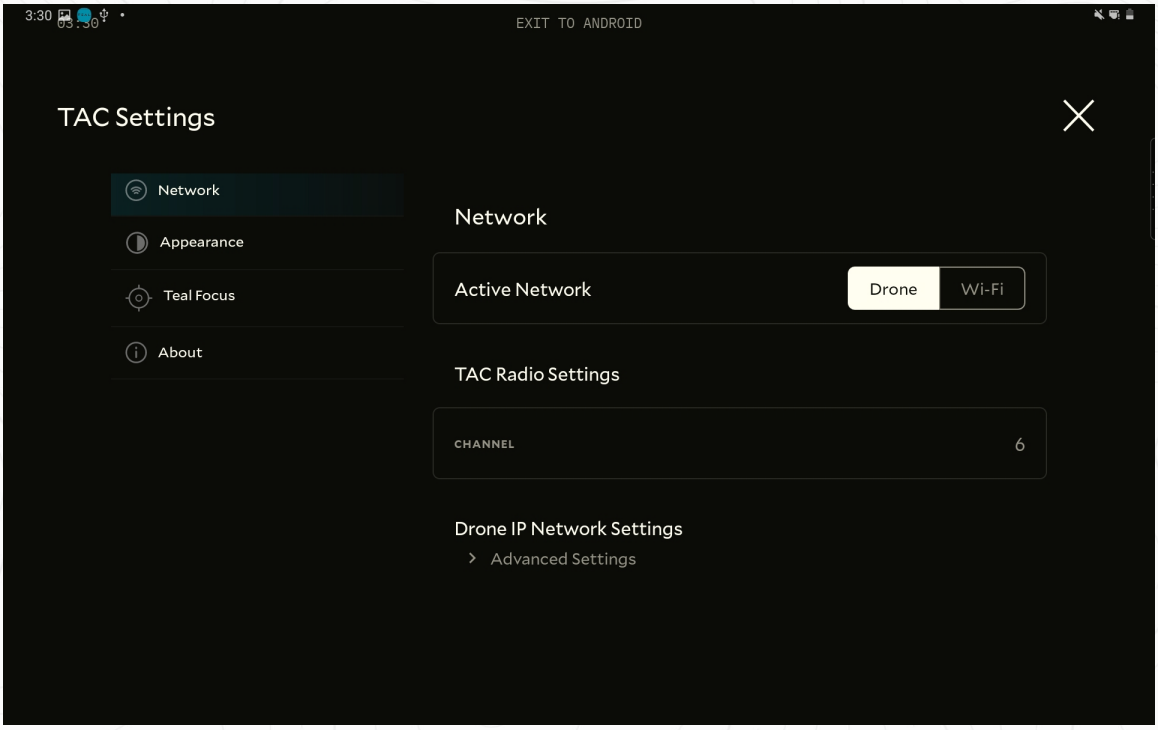
1. Make sure the AV and GCS are connected.
2. Open **Teal Settings**.
3. Tap **Update Firmware**.



For complete software update instructions, [visit this link.]

To view the radio channel:

1. In Teal Settings, click “Configure Device”.
2. In the Network menu, ensure you are on the “Drone” network.
3. TAC Radio Settings displays the channel currently in use.



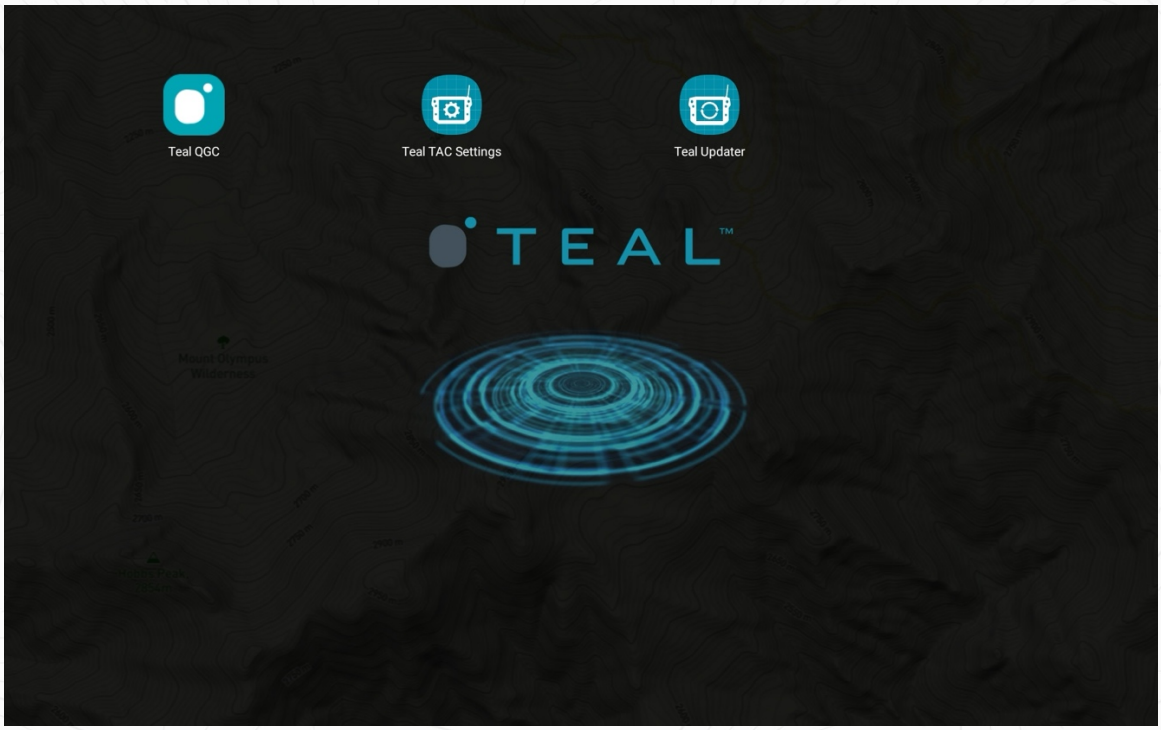
Known Errata

Teal acknowledges and plans to resolve the following issues in future releases:

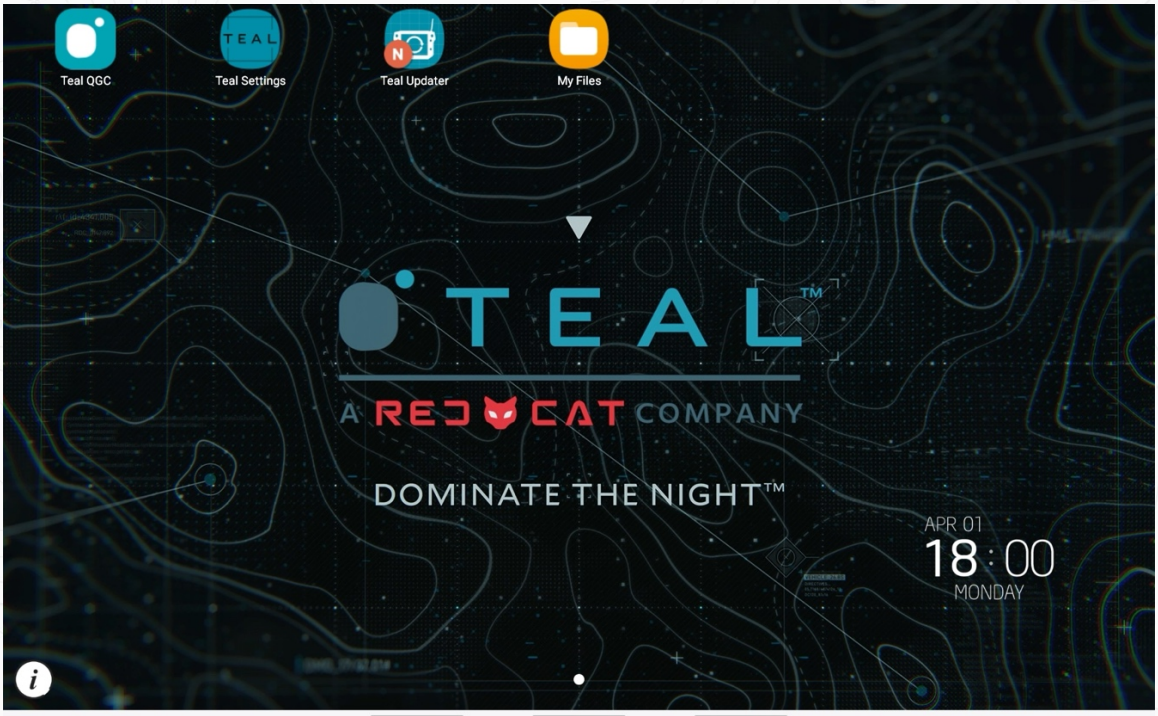
- FMU (flight management unit) firmware may not update during Over the Air update process
    - To confirm update applied properly:
        - After updating, and while GCS is linked to the aircraft, quickly tap the Teal icon in the top left of QGC 10 times
        - Enter “Vehicle Setup”, and in the “Summary” tab, check the version of the firmware in the “Airframe” box
        - “Firmware Version” should be 1.11.13, and “Custom Fw. Ver.” should be 1.17.0
    - If either of these versions is incorrect, update your system again
- RID declaration button may become unresponsive
    - See Field Service Bulletin
- Time clock desynchronization between aircraft and GCS may cause increasing video latency
    - See Field Service Bulletin

- “Vehicle Setup” menu occasionally does not appear in QGC
    - Reboot TealQGC in Teal Settings to fix
- Photo count UI does not properly increment after formatting SD card
- Descent rate is slow when landing beneath the altitude of your takeoff point
- Message rate limiting feature in MAVLink causes reported message loss rate in QGC up to 50%
    - This is only a UI bug and does not impact flight performance or reliability
- Android 14 does not allow screen recording in the GCS
    - To check if your TAC is running Android 10 or Android 14, see below image comparisons:

ANDROID 10



ANDROID 14



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