



RigiCloud Release Notes - 1.20

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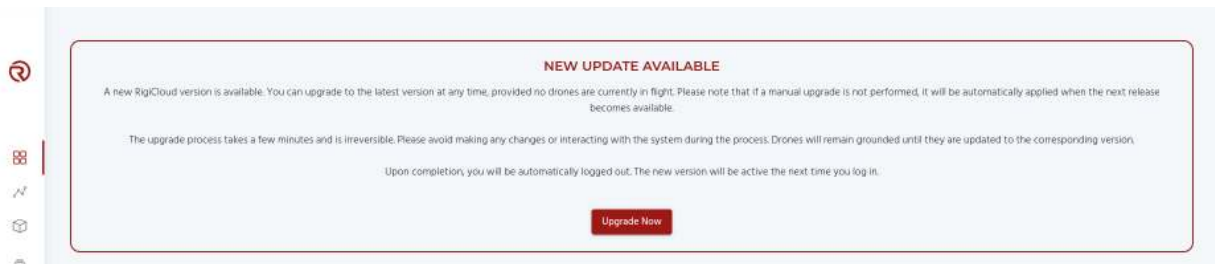
Quarterly release - 2026-06-01

Information on software updates, hotfixes and documentation is available in [Zendesk](#).

RigiCloud and Edge Node - v1.19.0:

New features

- **Multiversioning capability:**
 - RigiCloud can now support multiple versions of its core services simultaneously, allowing operators more flexibility in the upgrade process. When a new software version is released, the past version remains active, allowing Head of Operations users to update their portal at a time of their choosing.
 - Once an upgrade is triggered, all drones will also need to be upgraded to the new version, and there is no possibility to downgrade. The previous version remains supported for a limited time period. Critical hotfixes may still result in mandatory upgrades to the new version.



- **Live air traffic:**
 - A new air traffic layer is available from data supplier [SafeSky](#). The data will be available to all clients on a trial basis after release until commercial terms are defined.
 - The **INVOLI** air traffic layer has been deprecated.
- **Enhanced video server:**
 - A new backend for video streaming increases stability and reliability. Support was added for additional external video stream sources within the Control Tower.
- **Improved telemetry display:**
 - Invalid telemetry values now display as '-' instead of '0'.
 - Removed FS LTE link status in Edge Node RigiCloud.
 - **Note:** By design, this information could not be displayed in Edge Node RigiCloud.

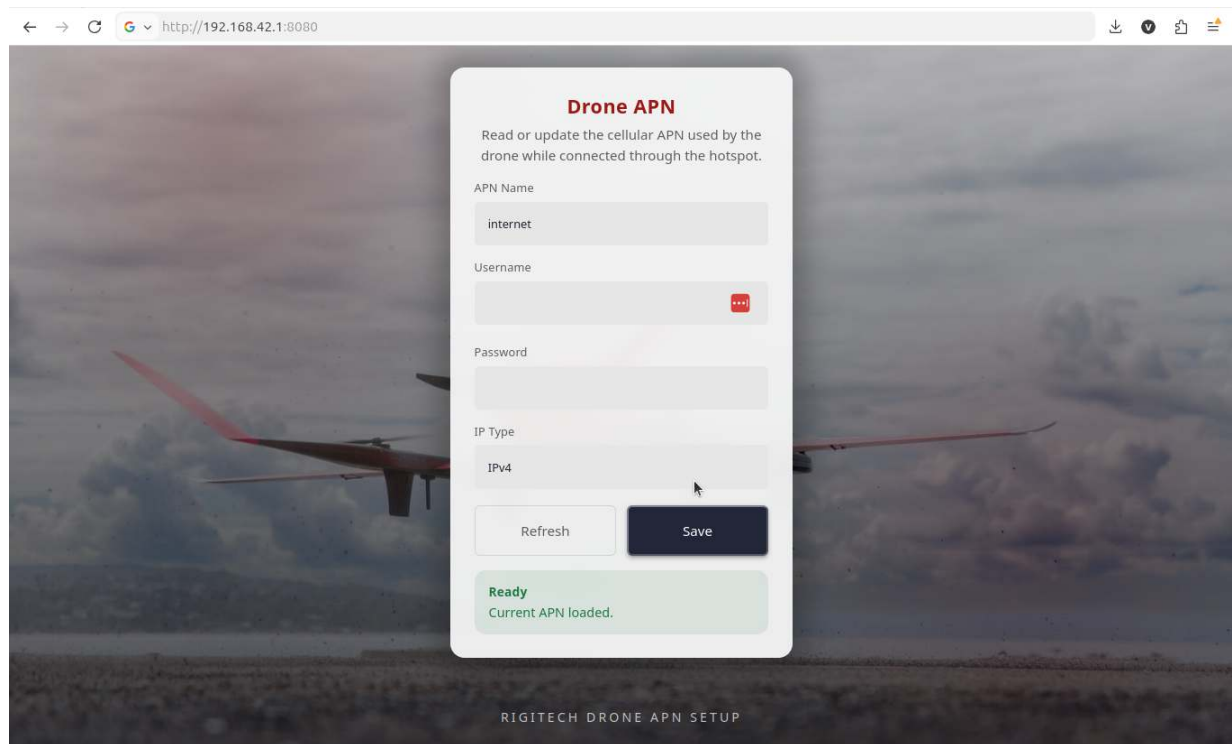
Fixed/Improved

- Improved post-flight analysis tools with expanded error detection.
- General bug fixes and reliability enhancements across systems.

Onboard software (OC) - v1.4.0:

New features

- **APN management enhancement:**
 - Connectivity settings such as the APN for the drone's LTE link or a local WiFi connection can now be set directly through the drone's WiFi hotspot. This removes the need of an active secondary link (FS LTE, Edge Node) to set initial connectivity.



- **Safety settings simplification:**
 - Simplification of safety settings options, aligned with safety requirements. The following safety actions have been removed:
 - **Pregeocage breach:** Hold and Warning removed as available actions
 - **Lower altitude deviation:** 2-layer configuration (warning + action) is now mandatory, Warning is no longer accepted as an action, Action maximum limit reduced from 10,000 m to 100 m
 - **Upper altitude deviation:** 2-layer configuration (warning + action) is now mandatory, Warning is no longer accepted as an action, Action maximum limit reduced from 10,000 m to 100 m, Action minimum limit raised from 10 m to 20 m

- **DAA:** Hold and SRP removed as available actions for High and Critical levels
- **C2:** RTO removed as available action

Fixed/Improved

- Enhanced tracking of custom drone software versions with grounding enforcement for non-reviewed versions (per SAIL-III requirements).
- Refactored networking backend for more reliable datalinks.
- Improved CPU performance.
- General bug fixes and reliability enhancements across systems.

Autopilot (AP) software - v2.12.0:

New features

- **Transition improvements:**
 - Automatic retransition to fixed-wing: After triggering CO, RTO or SRP when the drone is in multicopter mode, the drone will return to fixed-wing mode after having flown to the branch-in point if it is situated on a fixed-wing segment of the original route.
 - Note: No automatic retransitions are attempted after a previous transition failure or quadchute trigger on the same flight.
 - Quadchute timing before pregeocage breach: If Hold is triggered **manually** while in fixed-wing mode but the resulting loiter loop is predicted to breach the pregeocage, the drone executes a quadchute into multicopter mode.
 - Note: Hold behaviours triggered automatically by a failsafe action do not have this check and will remain in a fixed-wing loiter until a pre-geocage breach triggers further actions.
- **Guidance, navigation, and control improvements:**
 - Fixed-wing altitude acceptance that could lead to spiraling climbs is deactivated.
 - Better alignment for next-waypoint targeting during multicopter alignment phase while executing a MC U-Turn.
- **RTK improvements:**
 - RTK can now be applied to specific GNSS devices (none, front, back, or both) to avoid bad RTK data affecting both GNSS devices.

Fixed/Improved

- Enhanced DAA algorithms to reliably detect multiple aircraft within range.
- Improved RTK packet handling.
- General bug fixes and reliability enhancements across systems.

Failsafe Computer (FS) firmware - v1.4.0:

Fixed/Improved

- Fixed SD card remounting issue for logging.
- General bug fixes and reliability enhancements across systems.

Hotfixes:

RigiCloud and Edge Node - v1.19.1 - 2026-06-08:

Fixed/Improved

- Fix drone command history.
- Improved video streaming reliability.
- Air traffic layer now shows traffic based on map zoom level.
- More reliable email notifications.
- General stability improvements.

RigiCloud and Edge Node - v1.19.2 - 2026-06-09:

Fixed/Improved

- Improved Go To validation.
- Improved live map behaviour when mission data is missing.
- Improved drone connection status.
- General stability improvements.

RigiCloud and Edge Node - v1.19.3 - 2026-06-11:

Fixed/Improved

- Improved failsafe reliability, telemetry-based positioning, and go-to command validation for safer drone operations.
- General stability improvements.

RigiCloud and Edge Node - v1.19.4 - 2026-06-23:

Fixed/Improved

- Stable video session identity across reconnects.
- SafeSky integration improvements.
- General stability and performance improvements.

RigiCloud and Edge Node - v1.19.5 - 2026-06-27:

Fixed/Improved

- SafeSky integration improvements.
- General stability and performance improvements.

RigiCloud and Edge Node - v1.19.6 - 2026-07-08:

Fixed/Improved

- Improve VPN connection services to directly assign an IP on connection.
- Increase video receiver service resources to fix video streaming issues.
- Add control tower buttons to disables takeoff safeties by the operator, when false positives are detected or specific requirements do not apply.
 - Motor detection failure.
 - Remote ID requirement.
 - BID detection requirement.
 - Takeoff vertical position thresholds.
- Better flight review thresholds for flight validation.
- General stability and performance improvements.

RigiCloud and Edge Node - v1.19.7 - 2026-07-13:

Fixed/Improved

- Clean stale Redis stream consumers by idle time.

RigiCloud and Edge Node - v1.19.8 - 2026-07-17:

Fixed/Improved

- Fix ZeroTier VPN IP assignment by authorizing and assigning the IP in a single atomic request.
- Live Drone Node: disable Redis stream subscribers on the general client to reduce connection saturation.
- Prefer customer-facing serial (psn) as SafeSky UAV ID instead of internal production serial number (serialNumber).

Onboard software (OC) - v1.4.1 - 2026-07-08:

Fixed/Improved

- Fix networking packet size mismatch leading to communication losses to RigiCloud (affection video streaming, software update).

- Fix an issue showing custom software version incorrectly.
- Added automatic reboot of the video streamer process if unavailable.
- General bug fixes.

Autopilot (AP) software - v2.12.1 - 2026-07-08:

Fixed/Improved

- Automatically detect and flag loss of pusher motor in MC mode.
 - The drone will continue flying in MC mode without using the pusher. Any transitions will be skipped.
- Prevent arming of autopilot when facing internal publishing issues.