Functional system test

The functional system test verifies that the complete system is operating correctly.

All systems should be activated in the same way as they would be during a nominal operation, including GCS systems.

All potentially hazardous items (propellers, explosives, fuel, etc.) that are not required to verify system performance should be removed or secured.

This checklist may vary depending on the platform and systems installed, as it is only an example provided by Embention as an aid.

Therefore, each customer should have its own checklist.

"Sofware revision" checklist completed	
Ground systems revision	
Terminals (PCs, etc.)	
Graphic interfaces (Veronte Ops, etc.)	
Connections and wiring	
Antennas installed	
Physical interfaces (Stick, buttons, etc.)	
Communication systems revision	
Radiolink establishment	
Range and emitted power tests	
Diagnostic ports (USB, etc.)	
Caution: *system calibrations should always be avoided. A sensor or actuator will only be calibrated during this test once an incorrect calibration has been checked and verified.*	
Actuator systems revision	
Servos, motors, etc.	
Check the complete servo travel.	

For this test, the 1xVeronte PDI Calibration software should be used	
Check calibration/rigging. For this test, the 1xVeronte PDI Calibration software should be used	
Check directions and directions of rotation	
Verify absence of friction and vibration, continuous response	
Peripherals revision	
Connectivity	
Telemetry	
Sensors and estimators revision	
PFD (Attitude, IMU)	
Static pressure (Check reading with current atmospheric pressure)	
Dynamic pressure (Check anemometer)	
Yaw (Magnetometer)	
GPS coverage	
EKF (Estimate velocities, position, altitude)	
Manual and assisted modes review and test	
Verify stick connectivity and pilot inputs (Stick channels have correct values and direction)	
Verify activation of manual modes	
Verify controls in manual modes	
Verify manual procedures (Start up, arming, disarming, etc.)	