APEX FLIGHT OPERATIONS
ADVANCED REAL-TIME AIRCRAFT TRACKING & MANAGEMENT SOLUTIONS

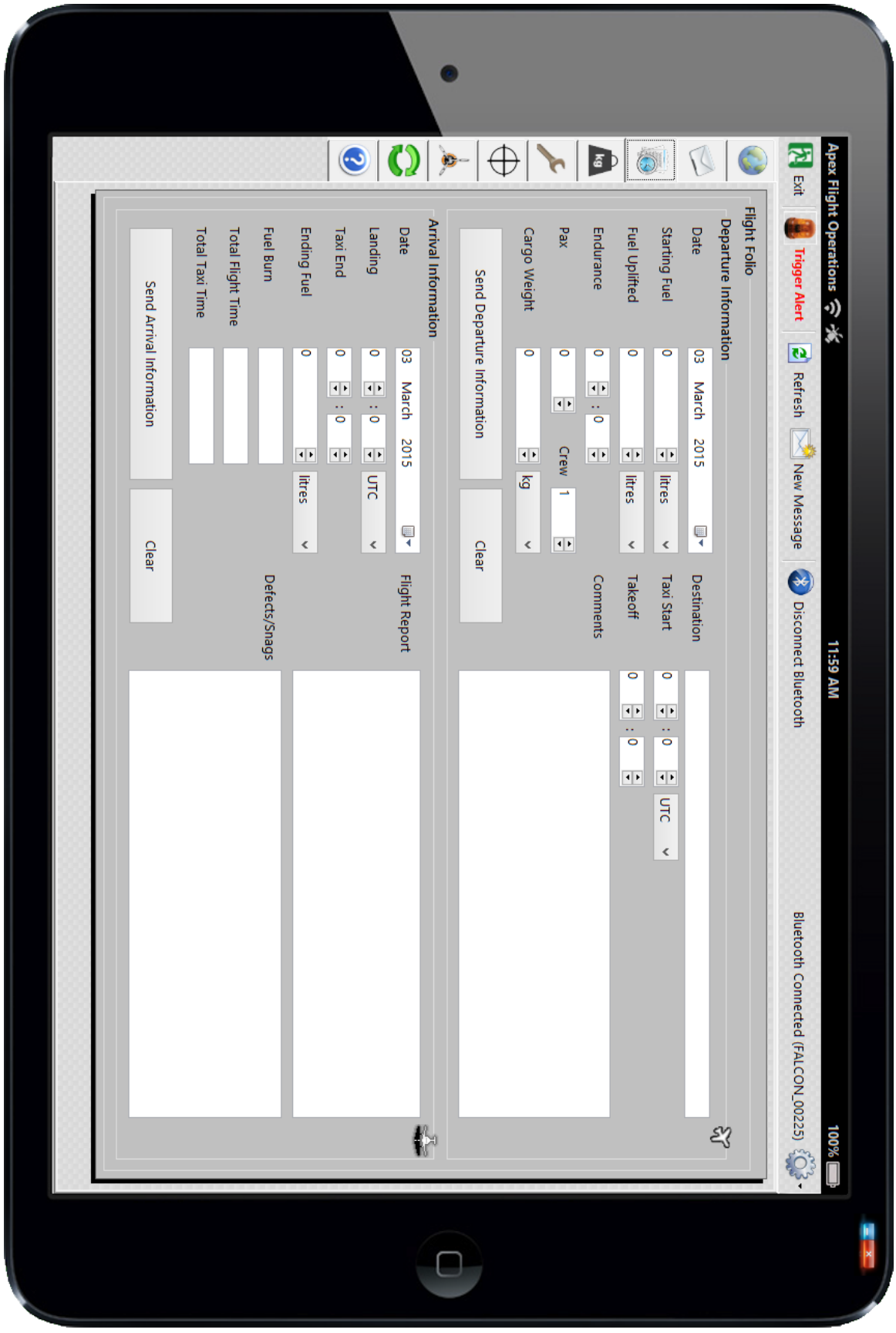
UN AGSTS TRACKING COMPLIANCE

The UN AGSTS has established a new set of tracking requirements that contracted Aircraft Operators are expected to comply with from November 2014. The following table illustrates the compliance of the **Falcon 360 Aircraft Tracking** solution from Apex Flight Operations with specific UN requirements:

Security(256 bit encryption)	✓	All data channels between the Falcon and the operations center are 256-bit encrypted
Position/event report(3 min)(SATID, UTC data/time, Fix Type)	✓	The Falcon's position reports can be triggered on intervals between 10 seconds and 30 minutes, and include the following data: • satellite ID, • aircraft registration, • Callsign, • latitude, • longitude, • ground-speed, • altitude AMSL, • ground track, • position fix type, • position quality metrics, and • alert status. All data is undiluted, i.e. the data reported from the GPS is *not* rounded to save airtime costs.
AC Registration	✓	See position details above
Date/Time	✓	See position details above
Latitude/Longitude	✓	See position details above
Altitude	✓	See position details above
Speed	✓	See position details above
Heading	✓	See position details above
Safety Event	✓	The Falcon has an Alert button which can be triggered by the aircrew either by pressing the button, or by means of the Falcon App.
Text/Email Messaging Event (min 300 ch-s)	✓	The Falcon allows unlimited text size communication, and can also be configured to include attachments and email addresses.
Automatic Event(Block start, Take-off, Landing Time, Block-Stop)	✓	The Falcon can be configured to automatically report: • Avionics On • Block Start • Engine On • Takeoff • Landing • Blocks Stop • Engine Off • Avionics Off These events are reported at the exact moment they are

		triggered, and not as part of the next interval report ***NOTE**: On rotorwing aircraft the Falcon must be powered from the aircraft in order to detect **Block Start** and **Block End** events.*
Manual event: Block-start Fuel uplifted Starting fuel Endurance Number of Passengers Cargo in kilo tonnage Take-Off Landing Time Total Flight Time Ending Fuel Fuel Burn Block Stop Total Block Time	✓	The Falcon App allows communication of all required data – please see Figure 1 below.
Quality of the position report(invalid/2D/3D)	✓	All position reports have a fix type metric, and only 3D position reports are utilized for reporting aircraft position.
Position quality	✓	The position reports from the Falcon average a Position Dilution Of Precision (PDOP) of 3.8
Position quality metrics	✓	The Falcon provides PDOP as per above.
Latency	✓	Average latency of reporting is 12 seconds (this is measured as the time between the report being triggered in the Falcon, and it being processed and available on our data servers)
Reliability (FRER level)	✓	Depending on the configuration choices, the Falcon system has a FRER rating of 4 or 5

For more information, please contact sales@apexflightops.com



** screenshot from Windows app – iOS and Android app screenshots may vary*

Figure 1: Falcon App Manual Times Reporting