STARS Air Ambulance Successfully Trials In-Flight Medical Data Transfer with SKYTRAC

Image courtesy of STARS air ambulance.

FORT WORTH, TX, October 28, 2021 – SKYTRAC Systems Ltd. (SKYTRAC), a global leader of intelligent connectivity solutions for aviation, and STARS air ambulance, a Canadian leader in emergency medical care and transportation for the critically ill and injured, have completed a first-of-its-kind in-flight Medical Data Transfer trial onboard STARS' new five-blade Airbus H145-D3 aircraft.

The Medical Data Transfer capability is the first of its kind to enable air medical operators to transmit real-time patient medical data such as O_2 and CO_2 saturation, pulse rate, and blood pressure data directly to remote transport physicians and receiving centers from any point on the globe through SKYTRAC's intelligent connectivity solution. This unique mix of satellite, cellular, and Wi-Fi connectivity is made possible by SKYTRAC's ISAT-200A and DAL-200 avionics, which offer operators dynamic data routing through various channels for real-time medical data acquired from onboard medical devices. The capability enables transport physicians to view patient data remotely through secure servers in real-time.

Prior to STARS' successful in-flight trial, SKYTRAC conducted on-ground testing with STAT MedEvac in February 2020, where engineers configured a ZOLL X Series monitor/defibrillator to transmit encrypted medical data successfully.

This expandable capability will enable healthcare practitioners to access data such as 12-lead reports before patients arrive at the receiving hospital, saving valuable seconds during one of the riskiest phases of care. Telemedicine applications may also be enabled, pending the availability of the required onboard equipment.

"STARS is very excited to see this capability successfully trialed on our aircraft," mentions Cindy Seidl, Chief Clinical Officer, STARS air ambulance. "The ability for our remote transport physicians to view real-time data enables us to be even more reactive when transporting patients to receiving centers."

The Iridium-based ISAT-200A satellite communications terminal features powerful data acquisition capabilities and services such as voice and text communications, aircraft tracking, and satellite push-to-talk (PTT) through a Low Earth Orbit (LEO) satellite

network for resilient low-latency narrowband bandwidth immune to natural disasters and catastrophic events. In regions where cellular connectivity is available, SKYTRAC's DAL-200 can dynamically switch to utilize cellular data.

The ability of air medical crews to transmit patient information is an additional layer that empowers medical professionals with a holistic, real-time visualization of critical care scenarios, and allows for fast, informed decision-making that can ultimately save patient lives.

"SKYTRAC has worked closely with STARS and STAT MedEvac over the years to create a truly innovative capability that has far reaching impact within the Emergency Medical Service sector," mentions Mandi Skinner, Regional Business Manager, SKYTRAC. "We look forward to growing our partnership with STARS, and ultimately to a successful fleet-wide implementation."

SKYTRAC will be demonstrating their medical data transfer capability at AMTC Shift 2021 between October 31st and November 2nd, 2021. The Medical Data Transfer demonstration will be located at the SKYTRAC exhibit at Booth 831.

For more information, please contact SKYTRAC at sales@skytrac.ca.

About SKYTRAC Systems Ltd.
SKYTRAC is aviation's full-service, data-driven solutions provider serving the fixed-wing, rotorcraft, and unmanned aviation markets. Since 1986, SKYTRAC has pioneered the development, evolution and commercialization of flight following, flight data and communications technology. Today, with systems certified on over 900 airframes and an online data management portal that is the go-to tool for over 7,500 global users, SKYTRAC is truly the partner of choice for data-guided business insights. From performance trending and operations reporting to real-time asset tracking and situational awareness – SKYTRAC offers a one-stop response to meeting more of your company's needs. For more information, visit www.SKYTRAC.ca.

About STARS Air Ambulance
Simply put, STARS fights for life. Since we embarked on our first mission in 1985, we've been driven by the goal of providing people the vital care they need when they need it the most. Providing rapid emergency medical care and transportation for the critically ill and injured, we operate 24/7 from bases in Calgary, Edmonton, Grande Prairie, Regina, Saskatoon and Winnipeg, anticipating and acting when people need our help. Learn more at STARS.CA.

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