

JetTalk Introduces Next Gen Broadband Satellite IFC Aero Terminals for Deployment on Any and All Jet Types

Lightweight, scalable software defined antenna optimally blends thin form factor and future-proof technologies for multibeam and multi satellite operation

March 25, 2019 – Farnborough, UK: JetTalk, a joint venture between SatixFy UK Limited and ST Engineering, will be showcasing its state-of-the-art In-Flight Connectivity (IFC) satellite Aero terminal, based on SatixFy's Electronically Steered Multibeam Antenna Array (ESMA) technology at the Aircraft Interiors Expo, April 2-4, held at the Hamburg Messe, Germany.

JetTalk's Aero all-in-one terminal is fully electronic. With no moving parts, it allows fast and simple installation, maintains the highest reliability and is low maintenance. Able to simultaneously communicate with multiple GEO/MEO/LEO satellites, the terminal provides aircraft passengers with continuous seamless broadband IFC. The terminal supports acquisition and tracking capabilities for multiple beams at multiple polarizations and integrates SatixFy's next generation modem baseband ASIC for a comprehensive terminal solution supporting any external modem.

"With high demand for onboard real-time video streaming over the internet and high bandwidth consuming social media applications, 300-450 passengers in larger jets will soon require a grade of service of up to 1 Gbps during flights," said Sharly Ben Chetrit, JetTalk Chairman. "Moreover, most local and regional lines run by single-aisle aircraft are eagerly awaiting an IFC solution that has a quick and simple installation and calibration to compete in the market and offer added value services to their passengers."

JetTalk Aero terminal consists of software defined antenna, as such it supports multiple satellite operators with its future proof SDR (Software Defined Radio) modem and offers straightforward integration with available networks or broadcast operators

Each tile is ESMA based, containing SatixFy's family of dedicated System on a Chip (SoC) devices. The Beamformer ("Prime") is an industry-new true-time delay chip for pointing and tracking multiple beams from an array of radiating elements. Each element is connected to the RFIC chip ("Beat") which serves as up and down converter LNA and PA per element. Together, the Prime and Beat create the basis for the ESMA tile.

The Aero terminal offers embedded LEO/MEO support, is software configurable and enables customers the flexibility to migrate to new constellations when available, and with inherent make-before-break capability.

JetTalk is a Joint Venture Company between SatixFy UK Limited and ST Engineering developing an industry-leading satellite antenna system to deliver higher performance with significant cost savings for airline operators, providing enhanced broadband connectivity experience for in-flight passengers. For more information visit www.jet-talk.com

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ST Engineering (Singapore Technologies Engineering Ltd) is an integrated defence and engineering group specialising in the aerospace, electronics, land systems and marine sectors. It has global presence with offices in Asia, the Americas, Europe and the Middle East and employs about 22,000 employees. Across the globe, its employees bring innovation and technology together to create smart engineering solutions for its customers in the defence, government and commercial segments. Headquartered in Singapore, the Group reported revenue of \$6.68b in FY2016 and ranks among the largest companies listed on the Singapore Exchange. It is a component stock of the FTSE Straits Times Index, MSCI Singapore and the SGX Sustainability Leaders Index. Please visit www.stengg.com for more information.

SatixFy designs next-generation satellite communication systems based on in-house developed chipsets which radically increase system performance and reduce the weight and power requirements of terminals, payloads and gateway equipment. SatixFy products and systems fully support advanced standards, such as DVB-S2X. The company delivers among others the industry's smallest VSAT and multibeam electronically steered antenna arrays for a variety of mobile applications and services such as IoT, consumer broadband, IFC, communication payloads and more. For further information visit www.satixfy.com

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