

## **News Release**

### **Winglet Technology Receives FAA STC Approval to Increase the Citation Sovereign Maximum Take-Off Weight with the installation of the Transitional Winglets**

**Wichita, KS (April 2018)** — Wichita, Kansas-based Winglet Technology has announced that it received Federal Aviation Administration (FAA) Supplemental Type Certificate (STC) approval to increase the Citation Sovereign maximum take-off weight (MTOW) by 475 lbs and the maximum zero fuel weight (MZFW) by 200 lbs with the installation of the Transitional winglet design. FAA STC ST01840WI was amended on February 15, 2018 to permit operations with the Transitional winglets installed at the higher MTOW and MZFW. The FAA STC has been approved for the entire Citation Sovereign fleet.

The Sovereign Transitional winglet STC with the gross weight increase provides an 8° C or 2,00 lb weight, altitude, and temperature (WAT) improvement at departure elevations of 5,000 ft or higher. Sovereign MTOW field lengths are modestly increased by 20 ft - 40 ft second segment climb gradients are improved by .5 % - .7 % at the 475 lb higher MTOW. Flight testing has confirmed a 35 KTAS speed increase at FL450 and direct climb to FL450 in 28 minutes at the higher MTOW.

The Transitional winglets allow higher maximum cruise speeds at altitude, greater range for a given payload throughout the operating envelope, and improved WAT limit performance. That translates into more flexibility when operating from high / hot airports and improved climb performance that leads to higher initial cruise altitudes.

The Transitional winglet STC adds 90 lbs to the empty weight of the Sovereign resulting in a 385 lb useful payload increase. The Transitional winglet upgrade will increase the Sovereign's wingspan from 63' 4" to 69' 6".

With Textron Aviation and Honeywell's support, work is underway to revise the Takeoff and Landing Database (TOLD) to cover the 475 lb MTOW increase and second segment climb improvement. In the interim, Winglet Technology is working with Textron Aviation to update

Cesnav CPCalc and EOM to reflect the improved take-off performance at the 475 lb MTOW increase.

Winglet Technology plans to have the Sovereign Transitional winglet on display at the Textron Aviation Customer Conference in Wichita, KS, May 15<sup>th</sup>, 2018.

#### ABOUT WINGLET TECHNOLOGY

Winglet Technology was granted an FAA Supplemental Type Certificate (STC) to install their Elliptical winglet design on Cessna's Citation X in July of 2009. Cessna Aircraft Company made the Elliptical winglet design standard equipment for its larger, faster upgraded version of the Citation X+ beginning with delivery of aircraft S/N 750-0501.

Founded in 2001, Winglet Technology, LLC received U.S., European, and Canadian patent approvals for its unique Elliptical winglet designs. The firm is located at 8200 East 34<sup>th</sup> Street North, Suite 1410 in Wichita, Kansas, 67226. For more information, please visit the company's website at [www.winglet-technology.com](http://www.winglet-technology.com) or call +1 316 524 9300.

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