



## MXS Restricted Use Notification to Owners & Operators

### Loss of Surface Intruder Tracking Following Reception of ADS-B Type Code Zero Position Message

**SB07050**

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#### **Product Affected**

MXS 10-0000 with software part number SW06990 is affected if ADS-B In position reports are used by an onboard ADS-B application to provide airport surface situational awareness. Onboard ADS-B applications would include any used by the remote pilot of an Uncrewed Aircraft System (UAS) whether on aircraft or on ground station.

#### **Issue**

A surface position report will not be generated for a traffic target under the following conditions:

- The MXS is tracking a surface target and providing surface position ADS-B reports.
- The surface target loses position source data and the ability to determine Airborne or Ground status, but still has a valid source for barometric altitude. (e.g.) Loss of GPS position and velocity data in which the velocity data is used to determine airborne/ground status. Loss of GPS data does not affect the barometric altitude source.
- The MXS receives Type Code equal to Zero (TC=0) ADS-B position messages containing valid barometric altitude data. from the surface target
- The MXS will drop the surface target track and will not re-acquire the target until ADS-B position messages from this aircraft have not been received for 200 seconds if it remains on the surface or if ADS-B position or velocity messages are not received for 25 seconds if it becomes airborne.

#### **Owner or Operator Action**

Be aware that some surface traffic target reports may not be provided. Do not use MXS with software part number SW06990 surface position reports for applications that provide airport surface situational awareness.

#### **Resolution**

The issue has been fixed in MXS 10-0000 MOD A with software part number SW07027. Contact our Customer Support Team to obtain MXS update.