

**RTCA Special Committee 186, Working Group 3  
EUROCAE WG-51, SG-1**

**ADS-B 1090ES MOPS Maintenance**

**WG-3 Meeting #28  
SG-1 Meeting #5  
Joint Session**

**EUROCAE Headquarters, Malakoff  
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**SBS Ground Station Handling of ADS-R Duplicate Addresses  
In Response to Action Item 27-06**

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**Summary**

This Working Paper addresses the handling of the ADS-R process in the ITT SBS Ground Stations for the purpose of resolving Duplicate Addresses.

## **1. Response:**

A question came up during the last RTCA 1090ES MOPS meeting about how the ITT SBS ground station handles ADS-R when two different aircraft on two different links with the same ICAO address come into proximity of one another.

The ground system attaches an internal prefix to each ICAO address that passes through the ADS-B system, which would allow it to provide ADS-R service to each aircraft in this case. The 1090ES aircraft would continue to receive UAT aircraft through ADS-R (including the duplicate target) and vice versa. The Target Addresses within the ADS-R messages themselves would remain unchanged from their source.