

SUBJECT: iFMS 2.7.8 and 2.8
Aircraft: Eclipse 500, Eclipse 550
Effectivity: All Aircraft
Applicability: All Aircraft

1. SUMMARY

This SIL provides guidance regarding an issue that was recently discovered with the iFMS 2.7.8. Software update for Eclipse 500s with IFMS 2.7 and all Eclipse 550s.

2. BACKGROUND

Eclipse Aerospace (EAI) Service Engineering and Innovative Solutions and Support (IS&S) received reports of an Avionics Databus Fail CAS message, dashed out transponder information for the offside transponder and navigation database MISMATCH indications after loading the IFMS 2.7.8 software update on some aircraft.

3. ECLIPSE ACTION

EAI Avionics Engineering together with IS&S are investigating the root cause of these indications. The investigation to date has determined that the indications are related to an initialization issue with the PFD to PFD Ethernet data bus connection when the aircraft first powers up.

4. SUGGESTED OPERATOR ACTION

If any of the following indications are noted on an aircraft with IFMS 2.7.8:

- Avionics Databus Fail CAS message.
- Dashed out transponder information for the offside transponder.
- Erroneous navigation database MISMATCH indication on any or all displays.

(The navigation database mismatch indication can be checked for validity by comparing the effective dates across the three displays.)

The indications can be cleared by power cycling a single PFD by pulling both circuit breakers and leaving the PFD unpowered for 5 to 7 seconds while the rest of the aircraft remains powered. After 5 to 7 seconds the circuit breakers can be reset.

Power cycling a single PFD re-initializes the PFD to PFD data bus communications. Once communication has been re-established the PFDs will continue to function normally until the aircraft is shutdown.

Owner/operators and maintenance providers with questions or comments concerning this issue should contact EAI Service Engineering at service.engineering@eclipse.aero or 505-724-1161.

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5. EXPORT CONTROL

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