

SUPPLEMENTAL TYPE CERTIFICATE

10068217 REV. 1

This Certificate/Approval is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation and in accordance with Commission Regulation (EU) No. 748/2012 to

FOKKER SERVICES B.V.

**HOEKSTEEN 40
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NETHERLANDS
EASA.21J.059**

and certifies that the change in the type design for the product listed below with the limitations and conditions specified meets the applicable Type Certification Basis and, if applicable, environmental protection requirements when operated within the conditions and limitations specified below:

Type Certificate Number: EASA.IM.A.196

Type Certificate Holder: THE BOEING COMPANY

Type: 747

Model: 747-400/ 747-400F

Description of Design Change:

ADS-B OUT on the Boeing 747 / This change introduces ADS-B capability on the Boeing 747 aircraft. The ATC transponders will be changed and they will interface with a suitable position sensor.

EASA Certification Basis:

The Certification Basis for the original product as amended by the following additional or alternative airworthiness requirements:

The following paragraph(s) at a later amendment: Initial Issue of CS-ACNS: CS-ACNS.D.AC.10; CS-ACNS.D.AC.015; CS-ACNS.D.AC.020; CS-ACNS.D.AC.025; CS-ACNS.D.AC.030; CS-ACNS.D.AC.035; CS-ACNS.D.AC.040; CS-ACNS.D.AC.045; CS-ACNS.D.ELS.010; CS-ACNS.D.ELS.015; CS-ACNS.D.ELS.020; CS-ACNS.D.ELS.025; CS-ACNS.D.ELS.030; CS-ACNS.D.ELS.040; CS-ACNS.D.ELS.045; CS-ACNS.D.ELS.050; CS-ACNS.D.ELS.055; CS-ACNS.D.ELS.060; CS-ACNS.D.ELS.065; CS-ACNS.D.EHS.010; CS-ACNS.D.EHS.015; CS-ACNS.D.EHS.020; CS-ACNS.D.EHS.025; CS-ACNS.D.ADSB.010; CS-ACNS.D.ADSB.020; CS-ACNS.D.ADSB.025; CS-ACNS.D.ADSB.030; CS-ACNS.D.ADSB.035; CS-ACNS.D.ADSB.040; CS-ACNS.D.ADSB.045; CS-ACNS.D.ADSB.050; CS-ACNS.D.ADSB.055; CS-ACNS.D.ADSB.060; CS-ACNS.D.ADSB.070; CS-ACNS.D.ADSB.080; CS-

See Continuation Sheet(s)

For the European Aviation Safety Agency

Cologne, Germany, 15 January 2019



**Supplemental Type Certificates & Special Projects
Section Manager**



ACNS.D.ADSB.085; CS-ACNS.D.ADSB.090; CS-ACNS.D.ADSB.100; CS-ACNS.D.ADSB.105; CS-ACNS.D.ADSB.110;
CS-ACNS.D.ADSB.115; CS-ACNS.D.ADSB.120

The requirements for environmental protection and the associated certified noise and/ or emissions levels of the original product are unchanged and remain applicable to this certificate/ approval.

Associated Technical Documentation:

The change is defined with Issue 1 of the Master Document List B747-ADSB-OUT-MDL-0001;

The aircraft shall be operated in accordance with Revision 1 of Airplane Flight Manual Supplement B747-ADSB-AFM-S-001

or later revisions of the above listed document(s) approved/accepted under the EASA system.

Limitations/Conditions:

Prior to installation of this change/repair it must be determined that the interrelationship between this change/repair and any other previously installed change and/ or repair will introduce no adverse effect upon the airworthiness of the product.

- End -

