

Our ref: B3TH01 TAP001

Andrew Musgrave
Thales Avionics Ltd
88 Bushey Road,
London.
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2nd May 2007



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Dear Mr Musgrave,

**Case Approval Particulars: Broadband Global Area Network (BGAN)
Aeronautical User Equipment (UE) - UE Model: Top Flight Satcom**

We have completed our review of the submissions made by you, and the testing performed by Inmarsat and yourselves, in support of the UE Case Approval Test Stage for Inmarsat Non Interference Case Approval of your Top Flight Satcom.

The above mentioned BGAN Aeronautical UE model is hereby Case Approved, as complying with the mandatory specifications of the associated System Definition Manual with the exception of associated waivers and deviations, referenced in Attachment 1 to this letter. Inmarsat therefore approves the use of Top Flight Satcom on its network subject to the conditions described below.

Please note:

1. Inmarsat cannot guarantee to provide the service for the Top Flight Satcom (C3A) beyond 31st December 2008.
2. Thales shall advise Inmarsat of all IMEI provisioned for use with the Top Flight Satcom (C3A) on a monthly basis.

Case Approval is granted in accordance with the test results submitted by you. Case Approval may be revoked in writing by Inmarsat, should Thales Avionics Ltd, not correct each and every Waiver by the stated date in Attachment 1 entitled "Waivers and Deviations". Deviations are permanent relaxations of the SDM requirements by Inmarsat.

Case Approval by Inmarsat should not be construed to constitute or imply any representation or warranty by Inmarsat in relation to the BGAN Portable UT model, including but not limited to:

- (i) the quality, reliability, durability, adequacy or fitness for purpose of the said BGAN Portable UT model, or

Case Approval: Top Flight Satcom

- (ii) whether any or all units of the said BGAN Portable UT model are free from defects in design, workmanship or materials,

nor does it apply to any capabilities or features not specified by Inmarsat. Any and all warranties or representations, whether express or implied, are hereby excluded.

By signing and returning a copy of this letter, you irrevocably confirm that, you waive any and all claims however arising (including tort) in connection with the Inmarsat Case Approval and further that you will indemnify and hold Inmarsat harmless from and against any such claims as may be made by third parties relating to your product model.

Signed:

Dated:.....

Name:

For: Thales Avionics Ltd

Yours sincerely,



Ian Cooper
Product Manager, E&E Systems

Direct Tel: +44 20 7728 1587
Email: ian_cooper@inmarsat.com

Attachment 1 - Waivers and Deviations.

Description	SDM/PRS/3G PPReference	Agreement (1 st May 2007)	Due date	Type	Status
Case Approval Conditions		The Case Approval (for a total of 75 channel units) is issued on a non-interference basis to allow Thales to manufacture terminals. However before any terminals can enter full commercial service: i). A flight test has to be performed to further demonstrate Timing Correction modifications are compliant with Thales Technical Note TFS062/T-115/001 and normal Inmarsat operational parameters. ii). The application driven Spot Beam Management system is proven via lab based demonstration or flight trial. For performance issues observed during the above testing, the Thales Class 3a software can be updated at Thales discretion	14 th June 07	Cat 1	Open
Over the Satellite Alpha Testing		An over the satellite Alpha Test campaign will be run with the aim of i. Base lining the C3A against known C3 UEs. ii. Verifying the UE's Quality of Service against a simulated application driven operation. iii. Further demonstrating to Airbus the UE's capability. For performance issues observed during the Alpha test campaign the Thales Class 3a software can be updated at Thales discretion			

Case Approval Certificate

Inmarsat Broadband Global Area Network (BGAN) Aeronautical

Thales Avionics Ltd, the manufacturer of a BGAN Aeronautical Mobile User Equipment (UE), identified as Top Flight Satcom, has submitted test data which demonstrates that the said BGAN Aeronautical UE when operating in the environmental conditions set forth in its Product Requirement Specification meets the applicable technical requirements for use with the Inmarsat Satellite Communications System, as issued by Inmarsat Global Ltd (Inmarsat) in the document entitled "Inmarsat System Definition Manual", subject to the correction of certain time limited waivers by Thales Avionics Ltd.

Thales Avionics Ltd has certified that all other units of the same type will meet all technical requirements in a similar manner to the units subjected to test, and that the tests have been conducted in accordance with procedures approved by Inmarsat. The full technical details of the Top Flight Satcom are documented in its Product Requirement Specification.

Inmarsat does hereby certify that the BGAN Aeronautical UE identified herein is acceptable for use with the Inmarsat Satellite Communications System as of the date of this certificate.

Inmarsat Global Limited
99 City Road
London, EC1Y 1AX
United Kingdom.

Certificate Number: B3TH01

Inmarsat Global Limited

By



Name:

Ian Cooper

Title:

Product Manager
E&E Systems

Approval Date:

2nd May 2007

1. This certificate does not authorise the operation of the BGAN Aeronautical UE in the Inmarsat System. Such authorisation requires registration after installation, in accordance with registration procedures established by Inmarsat. In addition, the operation of the BGAN Aeronautical UE may also be subject to national licensing requirements.

2. This certificate is intended only as formal notification to the manufacturer that Inmarsat has determined, on the basis of test results submitted by Thales Avionics Ltd using test procedures approved by Inmarsat, that BGAN Aeronautical UE models of the type identified herein meet the standards for use with the Inmarsat System. This certificate is not a warranty of the performance or fitness for purpose of the BGAN Aeronautical UE and Inmarsat hereby expressly disclaims any and all liability arising out of or in connection with the issuance, use, or misuse of this certificate.


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Total Communications Network™

CASE APPROVAL PARTICULARS

Manufacturer: **Thales Avionics Ltd**
Inmarsat-Aero System: **BGAN**
Model Name: **Top Flight Satcom**
Applicable Class(es): **3**
Assessment Number: **B3TH01**

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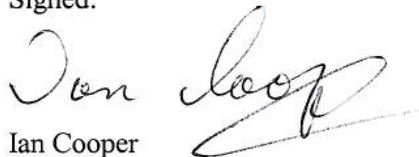
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Particulars Details:	Particulars Number:	Date Issued:
Initial Approval	001	2 nd May 2007

These particulars form part of the Case Approval letter dated 2nd May 2007 and issued in accordance with any conditions therein. Certified Approved for and on behalf of Inmarsat.

Signed:

Date: 2nd May 2007



Ian Cooper
Product Manager, E&E Systems