體 驗

STAR NAVIGATION

實時飛行監測| 飛行數據診斷/預報 | 智能分析

STAR
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前瞻性陈述

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STAR
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Star Navigation Systems Group Ltd.

加拿大技術

Star Navigation Systems Group Ltd. (“Star”)是一家在加拿大證券交易所（CSE）上市的加拿大公司，專注於提供航空航天解決方案 - 硬件和軟件 - 以協助全球航空運營商。我們的STAR-ISMS®飛行中安全監測系統是STAR-A.D.S.®（機載數據服務）的核心。

來自STAR-A.D.S.®系統的飛行數據參數的自動GSM傳輸提供了數據驅動的趨勢分析和洞察力，可以用於提高運營和維護效率，如燃料管理節約、發動機狀態監測、飛行結束報告、FOQA監測、自動OOOI時間和預測性維護，都可以在一個用戶友好的交互式儀錶板上進行。

Transports Canada Transport Canada

Certified by Transport Canada and FAA

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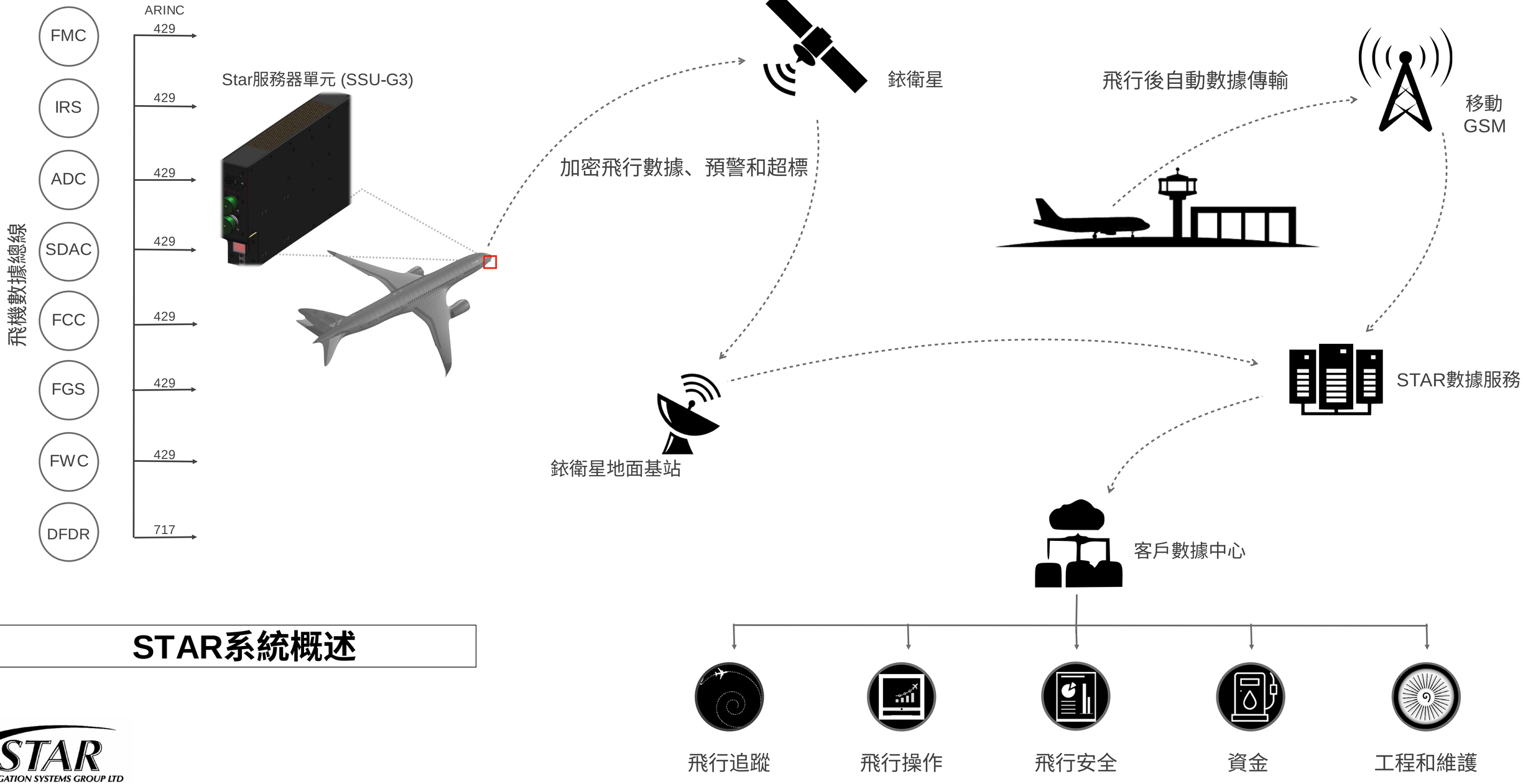
STAR系統概述



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STAR-A.D.S.®的特點

飛行追蹤

- 全球飛機飛行跟蹤
- 實時飛機健康監測
- 集成的集中式用戶界面（GUI）儀錶板

實時飛機健康監測

- 每2分鐘傳送一次強制性 "脈衝 "參數
- 在可定制的時間間隔內傳輸飛行中的“健康狀態"。
- 在一個基於網絡的儀錶板上觀看直播或重播

燃料優化

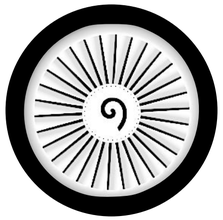
- 建立豐富而客觀的節油分析
- 燃料利用管理工具
- 優化並提高運營利潤率

採集和傳輸警報

- 檢測飛行中的事件
- 傳輸實時超標警報
- "飛機遇險 "功能傳輸關鍵的數字飛行數據記錄器（DFDR）"黑匣子 "飛行數據，以協助搜索和救援。

飛行安全分析

- 自動（FOQA）飛行操作質量保證方案
- 利用飛行數據生成性能報告



發動機狀態監測

- 即時瞭解飛機發動機狀態監測
- 主動的飛行後分析減少了計劃外的維護，最大限度地減少了AOG時間。

飛行結束報告

自動生成詳細報告：

- 飛行結束
- 發動機狀態
- 燃料消耗
- 安全分析
- 工程和
- 維護
- 財務
- OOOI

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實時飛機飛行數據采集
實時數據采集、分析並從飛機上傳輸給地面上的操作人員

發送警報和超標信息
使用銥星衛星通信傳輸飛機EICAS/ECAM警告和警報以及其他飛機系統退化的警報

自動/手動飛行數據檢索
通過蜂窩式GSM自動傳輸相關的DFDR飛行數據，用於FOQA、ECM趨勢分析、燃料管理分析，通過USB端口進行手動數據檢索。

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硬件 | **軟件** | 智能分析

實時飛行觀察和監測
通過銥星衛星通信進行全球飛機跟蹤和飛機健康監測

管理儀錶板
使用基於網絡的圖形用戶界面（GUI）實時跟蹤整個航空公司機隊以及飛機健康管理數據和分析報告。

飛行回放跟蹤
利用歷史數據回放和跟蹤以前的飛行

利用天氣優化操作
預先確定的飛行路線上的實時天氣

及時的飛行數據
即時訪問飛行數據，以便進一步進行第三方分析、主動操作、事故調查等。

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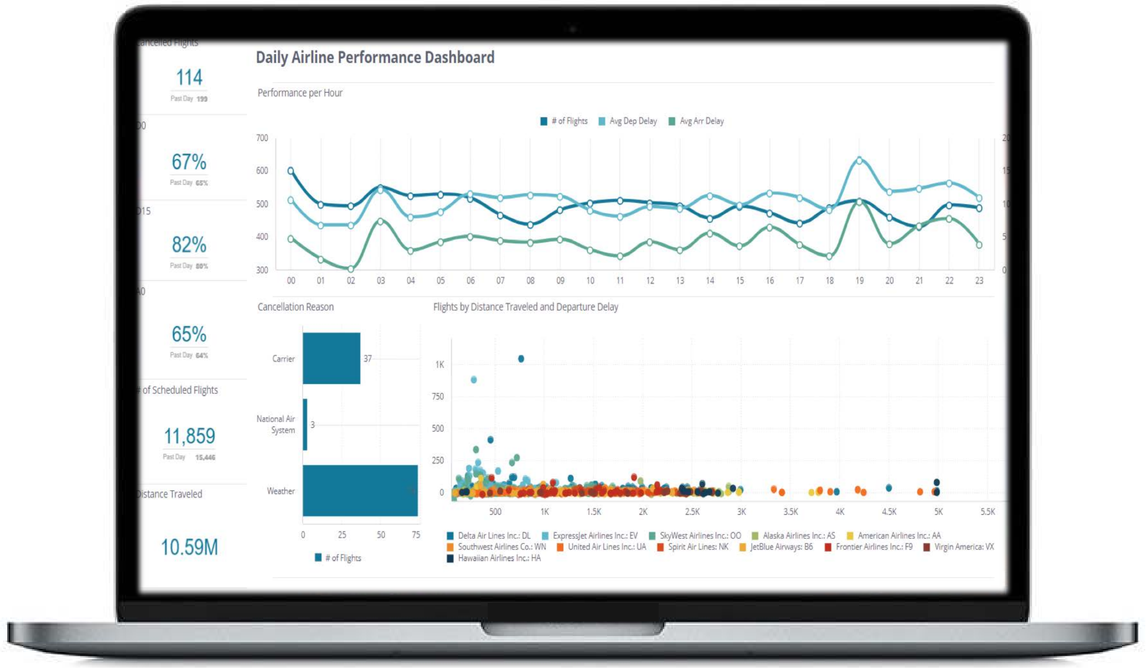
提高航空安全
通過主動的飛行數據分析、飛行操作質量保證（FOQA）、性能和趨勢分析報告等提高航空的安全性。

自動化的飛行結束報告
在任何目的地著陸後關閉發動機時，即時生成飛行結束報告（EOF）。

提高運營效率
通過發動機狀態監測（ECM）趨勢分析報告、燃料消耗報告和 OOOI 時間，減少非計劃的發動機維修，提高利潤率，改善航空公司的效率

自動的大數據分析
為航空公司提供用於 "大數據分析 "的飛行信息，並為內部各部門提供智能化的及時決策。



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全球飛行追蹤

符合並超過國際民航組織附件6第一部分全球航空遇險和安全系統（GADSS）
在2023年1月前強制遵守自動遇險和安全系統的規定

- 飛機跟蹤/機隊觀察，正常運行時每15分鐘一次，遇險時每1分鐘一次
- 自主遇險追蹤期間飛行數據記錄器（FDR）的全部數據傳輸
- 飛行後的定位、恢復和分析

在一個集成的中央圖形用戶界面（GUI）儀錶板上進行實時的全球飛機飛行跟蹤和實時的飛機健康監測、分析和傳輸。

Star Navigation的三步式GADSS過程

數據采集

飛機傳感器和航電系統的實時數據，以檢測超標情況並發出警報

機上分析

在飛行過程中，安全、性能和維護事件自動發生

傳輸

在事件發生的整個過程中不斷升級的飛機參數或完整的DFDR數據，以便進行遠程檢索和分析

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實時監測飛機健康狀況

脈搏

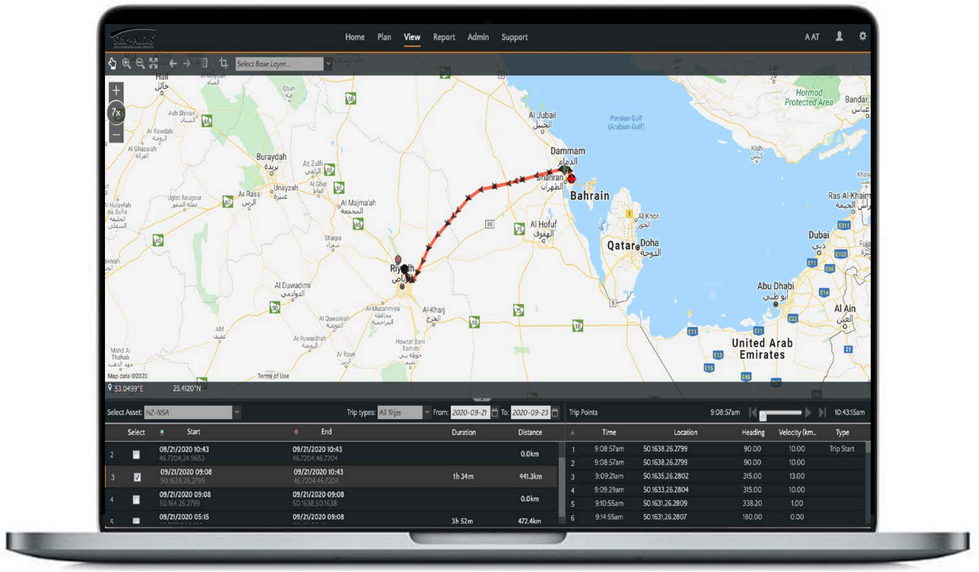
每兩*分鐘傳送一次飛機參數

- 緯度
- 經度
- 航向
- 空速
- 飛行信息

信號

在整個飛行過程中，基本的飛機飛行參數在30*秒至15分鐘的間隔內傳輸到地面

***可定制**



來自飛行中的飛機的實時懸停飛行參數信息

用於機隊跟蹤、報告等的集中式網絡管理儀錶板工具。

在儀錶盤上觀看任何飛行中的飛機直播或歷史飛行的回放，並提供飛行數據

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燃料優化

超過
2%

機隊燃料節省（預計）

可視化燃料消耗

優化和節省燃料

STAR-A.D.S.®利用寶貴的飛行數據和強大的分析能力，通過洞察力創造價值，幫助提高燃油效率，優化燃油消耗，減少浪費和降低碳排放。

STAR-A.D.S.®解決方案的實施可以使整個配備的機隊節省超過2%的燃料。在地面上，STAR-A.D.S.®允許對所有來源的信息有一個整體的看法，比較預算、原始飛行計劃、真實的飛行和飛機數據以及維護信息，以提供燃料節約和燃料優化策略。

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分析和傳送警報

STAR-A.D.S.®的競爭優勢來自於它的技術，即實時收集、分析並向地面傳輸所有重要的機上警報和超標情況。

持續收集和監測飛行中的事件、警報、警告和超標情況

使用覆蓋全球的銥衛星將實時超標警報從飛機上傳輸到地面。

“飛機遇險”功能可傳輸關鍵的數字飛行數據記錄器（DFDR）"黑匣子"飛行數據，以協助搜救和調查。

在手機或電腦上接收地面上的所有警報和超標情況

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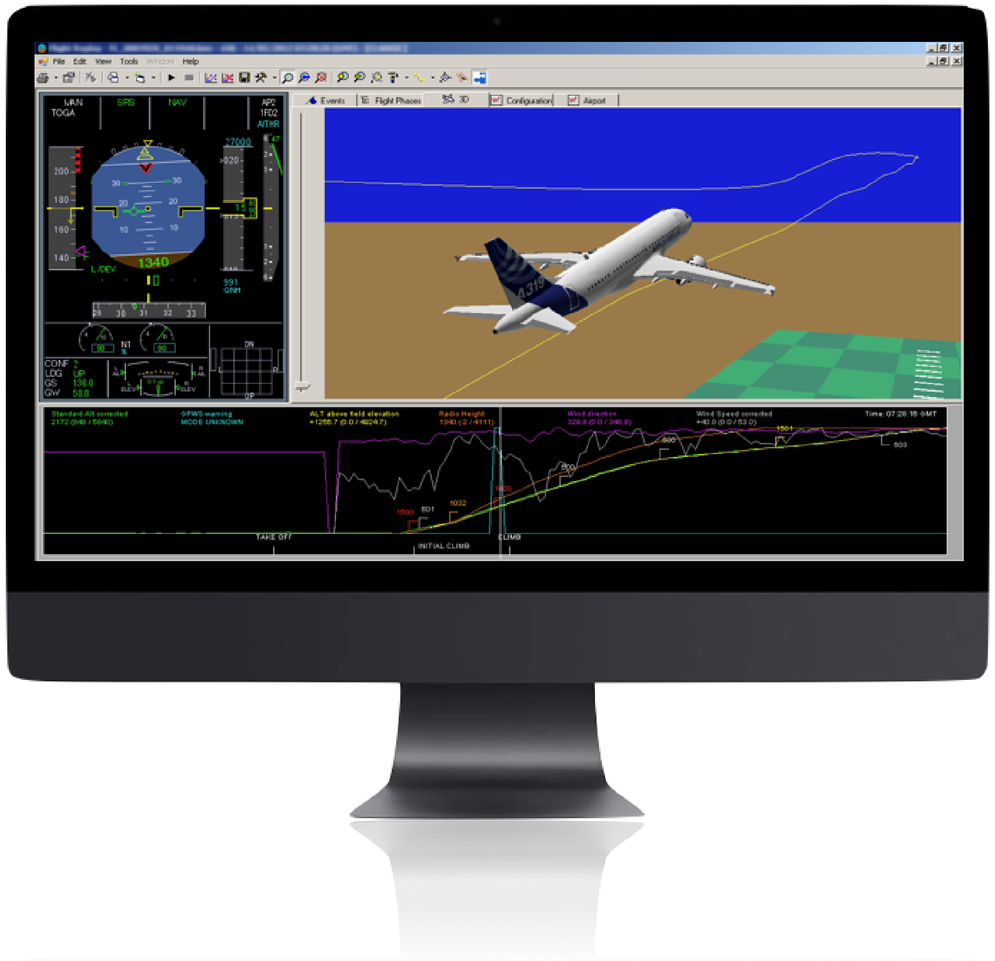
飛行安全分析

飛行操作質量保證（FOQA）或飛行數據監控（FDM）或飛行數據分析（FDA）是主動利用飛行後操作的數字飛行數據來分析、監控和改善航空公司的運營和航空安全。



- 自動生成飛行操作質量保證（FOQA）報告
- 兩週一次的個性化飛行員表現報告，以確定其飛行中的安全事件
- 航空公司安全業績月報
- 三維模擬和回放
- 符合法規
  - Amendment 26 to ICAO Annex 6 Part 1
  - Transport Canada CAR 561
  - AS9100 Rev-D (航空航天標準) 和 ISO9001:2015

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飛行結束後的自動報告

通過銥衛星、蜂窩式GSM自動傳輸飛行數據，或為飛行後分析或整合到第三方軟件手動檢索數據

自動數據分析和智能商業洞察

發動機狀態報告

FOQA/FDM安全報告

燃料消耗報告

飛行結束報告

工程和維護報告

財務報告

滑出-起飛-接地-停靠門位(OOOI)報告

分析報告

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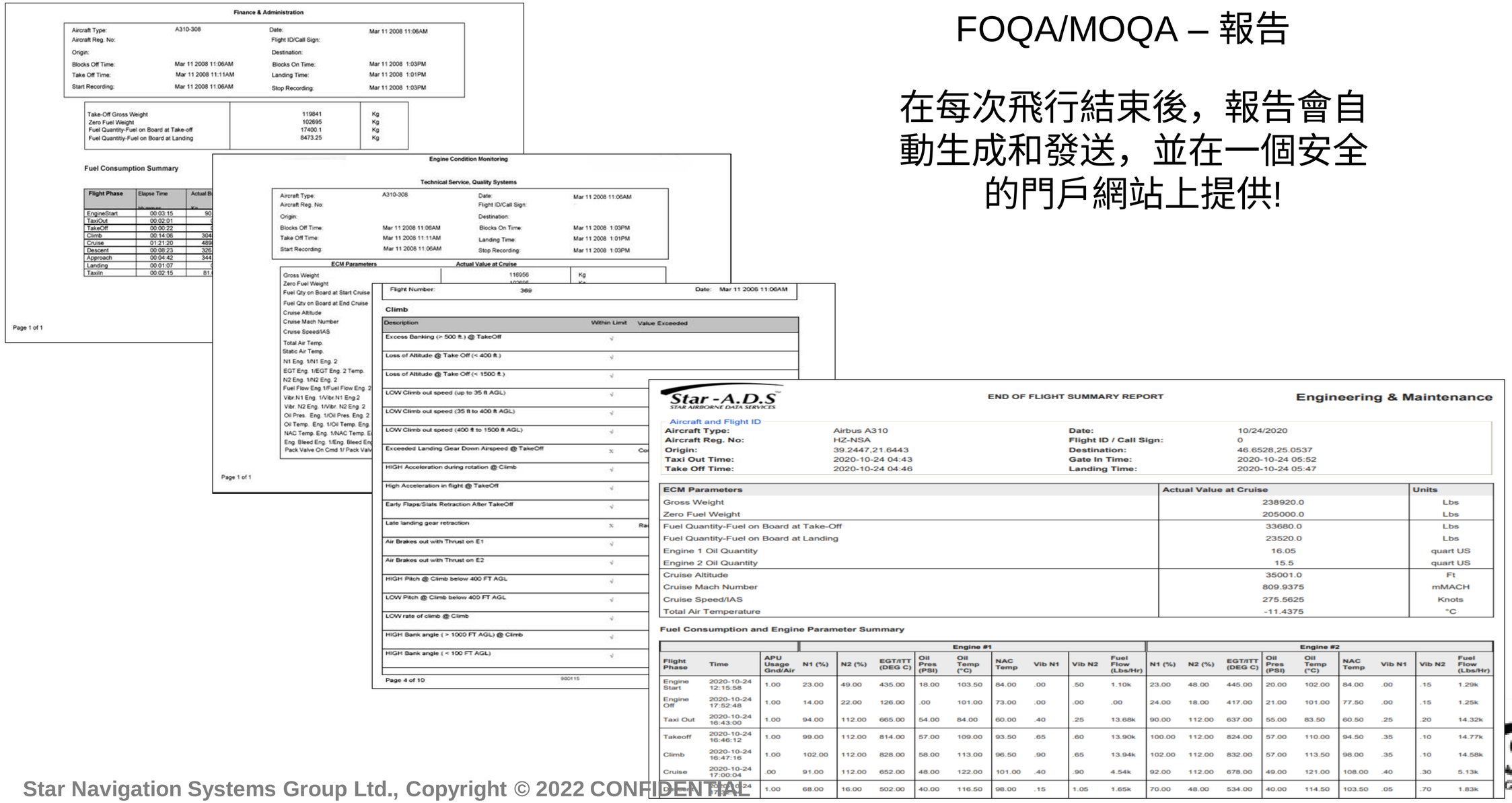
Star-機上數據服務



Finance & Administration

Aircraft Type:	A310-308	Date:	Mar 11 2008 11:06AM
Aircraft Reg. No:		Flight ID/Call Sign:	
Origin:		Destination:	
Blocks Off Time:	Mar 11 2008 11:06AM	Blocks On Time:	Mar 11 2008 1:03PM
Take Off Time:	Mar 11 2008 11:11AM	Landing Time:	Mar 11 2008 1:01PM
Start Recording:	Mar 11 2008 11:06AM	Stop Recording:	Mar 11 2008 1:03PM

Take-Off Gross Weight	119841	Kg
Zero Fuel Weight	102695	Kg
Fuel Quantity-Fuel on Board at Take-off	17400.1	Kg
Fuel Quantity-Fuel on Board at Landing	8473.25	Kg

Fuel Consumption Summary

Flight Phase	Elapse Time	Actual B
EngineStart	00:03:15	90
TaxiOut	00:02:01	
TakeOff	00:00:22	
Climb	00:14:06	304
Cruise	01:21:20	489
Descent	00:08:23	326
Approach	00:04:42	344
Landing	00:01:07	
TaxiIn	00:02:15	81

Page 1 of 1

Engine Condition Monitoring

Technical Service, Quality Systems

Aircraft Type:	A310-308	Date:	Mar 11 2008 11:06AM
Aircraft Reg. No:		Flight ID/Call Sign:	
Origin:		Destination:	
Blocks Off Time:	Mar 11 2008 11:06AM	Blocks On Time:	Mar 11 2008 1:03PM
Take Off Time:	Mar 11 2008 11:11AM	Landing Time:	Mar 11 2008 1:01PM
Start Recording:	Mar 11 2008 11:06AM	Stop Recording:	Mar 11 2008 1:03PM

ECM Parameters	Actual Value at Cruise	
Gross Weight	116956	Kg
Zero Fuel Weight		
Fuel Qty on Board at Start Cruise		
Fuel Qty on Board at End Cruise		
Cruise Altitude		
Cruise Mach Number		
Cruise Speed/IAS		
Total Air Temp.		
Static Air Temp.		
N1 Eng. 1/N1 Eng. 2		
EGT Eng. 1/EGT Eng. 2 Temp.		
N2 Eng. 1/N2 Eng. 2		
Fuel Flow Eng.1/Fuel Flow Eng. 2		
Vibr.N1 Eng. 1/Vibr.N1 Eng.2		
Vibr. N2 Eng. 1/Vibr. N2 Eng. 2		
Oil Pres. Eng. 1/Oil Pres. Eng. 2		
Oil Temp. Eng. 1/Oil Temp. Eng.		
NAC Temp. Eng. 1/NAC Temp. E		
Eng. Bleed Eng. 1/Eng. Bleed En		
Pack Valve On Cmd 1/ Pack Valv		

Page 1 of 1

Flight Number: 369 Date: Mar 11 2008 11:06AM

Climb

Description	Within Limit	Value Exceeded
Excess Banking (> 500 ft.) @ TakeOff	√	
Loss of Altitude @ Take Off (< 400 ft.)	√	
Loss of Altitude @ Take Off (< 1500 ft.)	√	
LOW Climb out speed (up to 35 ft AGL)	√	
LOW Climb out speed (35 ft to 400 ft AGL)	√	
LOW Climb out speed (400 ft to 1500 ft AGL)	√	
Exceeded Landing Gear Down Airspeed @ TakeOff	X	Co
HIGH Acceleration during rotation @ Climb	√	
High Acceleration in flight @ TakeOff	√	
Early Flaps/Slats Retraction After TakeOff	√	
Late landing gear retraction	X	Ra
Air Brakes out with Thrust on E1	√	
Air Brakes out with Thrust on E2	√	
HIGH Pitch @ Climb below 400 FT AGL	√	
LOW Pitch @ Climb below 400 FT AGL	√	
LOW rate of climb @ Climb	√	
HIGH Bank angle (> 1000 FT AGL) @ Climb	√	
HIGH Bank angle (< 100 FT AGL)	√	

Page 4 of 10

Star-A.D.S™ STAR AIRBORNE DATA SERVICES

END OF FLIGHT SUMMARY REPORT

Engineering & Maintenance

Aircraft and Flight ID

Aircraft Type:	Airbus A310	**Date:**	10/24/2020
Aircraft Reg. No:	HZ-NSA	**Flight ID / Call Sign:**	0
Origin:	39.2447,21.6443	**Destination:**	46.6528,25.0537
Taxi Out Time:	2020-10-24 04:43	**Gate In Time:**	2020-10-24 05:52
Take Off Time:	2020-10-24 04:46	**Landing Time:**	2020-10-24 05:47

ECM Parameters	Actual Value at Cruise	Units
Gross Weight	238920.0	Lbs
Zero Fuel Weight	205000.0	Lbs
Fuel Quantity-Fuel on Board at Take-Off	33680.0	Lbs
Fuel Quantity-Fuel on Board at Landing	23520.0	Lbs
Engine 1 Oil Quantity	16.05	quart US
Engine 2 Oil Quantity	15.5	quart US
Cruise Altitude	35001.0	Ft
Cruise Mach Number	809.9375	mMACH
Cruise Speed/IAS	275.5625	Knots
Total Air Temperature	-11.4375	°C

Fuel Consumption and Engine Parameter Summary

		Engine #1									Engine #2							
Flight Phase	Time	APU Usage Gnd/Air	N1 (%)	N2 (%)	EGT/ITT (DEG C)	Oil Pres (PSI)	Oil Temp (°C)	NAC Temp	Vib N1	Vib N2	Fuel Flow (Lbs/Hr)	N1 (%)	N2 (%)	EGT/ITT (DEG C)	Oil Pres (PSI)	Oil Temp (°C)	NAC Temp	Vib N1	Vib N2	Fuel Flow (Lbs/Hr)
Engine Start	2020-10-24 12:15:58	1.00	23.00	49.00	435.00	18.00	103.50	84.00	.00	.50	1.10k	23.00	48.00	445.00	20.00	102.00	84.00	.00	.15	1.29k
Engine Off	2020-10-24 17:52:48	1.00	14.00	22.00	126.00	.00	101.00	73.00	.00	.00	.00	24.00	18.00	417.00	21.00	101.00	77.50	.00	.15	1.25k
Taxi Out	2020-10-24 16:43:00	1.00	94.00	112.00	665.00	54.00	84.00	60.00	.40	.25	13.68k	90.00	112.00	637.00	55.00	83.50	60.50	.25	.20	14.32k
Takeoff	2020-10-24 16:46:12	1.00	99.00	112.00	814.00	57.00	109.00	93.50	.65	.60	13.90k	100.00	112.00	824.00	57.00	110.00	94.50	.35	.10	14.77k
Climb	2020-10-24 16:47:16	1.00	102.00	112.00	828.00	58.00	113.00	96.50	.90	.65	13.94k	102.00	112.00	832.00	57.00	113.50	98.00	.35	.10	14.58k
Cruise	2020-10-24 17:00:04	.00	91.00	112.00	652.00	48.00	122.00	101.00	.40	.90	4.54k	92.00	112.00	678.00	49.00	121.00	108.00	.40	.30	5.13k
[illegible]	2020-10-24	1.00	68.00	16.00	502.00	40.00	116.50	98.00	.15	1.05	1.65k	70.00	48.00	534.00	40.00	114.50	103.50	.05	.70	1.83k

FOQA/MOQA – 報告

在每次飛行結束後，報告會自動生成和發送，並在一個安全的門戶網站上提供!

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STAR NAVIGATION SYSTEMS GROUP LTD

內部設計的STC

Transport Canada / Transports Canada

Department of Transport

Supplemental Type Certificate

This approval is issued to:
Star Navigation Systems Group Ltd.
2970 Lakeshore Blvd.W
Unit 300
Toronto, Ontario
Canada M8V 1J7

Number: SA17-11
Issue No.: 2
Approval Date: August 15, 2017
Issue Date: August 29, 2017

Responsible Office: Ontario
Aircraft/Engine Type or Model: Airbus A310-304
Canadian Type Certificate or Equivalent: A-151 (Airbus A310-304)

Description of Type Design Change: Installation of Star Navigation Systems In-Flight Safety Monitoring System (ISMS)

Installation/Operating Data, Required Equipment and Limitations:

Installation must be in accordance with Star Navigation Systems Group Ltd. Master Drawing List (MDL) S16018-STAR-ISMS-MDL-AAT Rev B, dated August 11, 2017 or later Transport Canada approved revisions

Maintenance must be in accordance with Star Navigation systems Group Ltd. Instructions for Continued Airworthiness Document No S16004-STAR-ISMS-ICA-AAT Rev NC, dated December 8, 2016 or later Transport Canada accepted revisions.

-See continuation Sheet-

Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.

Bo Yu
For Minister of Transport

Canada

空客 A310-300, A310-304

Transport Canada / Transports Canada

Department of Transport

Supplemental Type Certificate

This approval is issued to:
Star Navigation Systems Group Ltd.
11 Kenview Blvd.
Brampton, Ontario
Canada L6T 5G5

Number: SA14-19
Issue No.: 3
Approval Date: March 26, 2014
Issue Date: October 01, 2019

Responsible Office: Ontario
Aircraft/Engine Type or Model: Airbus S.A.S. A320-232
Canadian Type Certificate or Equivalent: A-166 (Airbus S.A.S. A320-232)

Description of Type Design Change: ISMS Installations

Installation/Operating Data, Required Equipment and Limitations:

Configuration 1 – ISMS – SSU G2 Provisions Only:

Installation must be in accordance with Star Navigation Master Drawing List MDL-ISMS-004 Rev NC, dated March 25, 2014, or later Transport Canada approved revisions.

Maintenance must be in accordance with Star Navigation Instructions for Continued Airworthiness ICA-ISMS-004, Rev NC accepted March 25, 2014, or later Transport Canada accepted revisions. Compliance with Chapter 3.0 Airworthiness Limitations of this ICA is mandatory.

This installation is for "wiring and structural provisions" only and it must be disabled in accordance with Star Navigation Engineering Instruction document ISMS-EI-004.

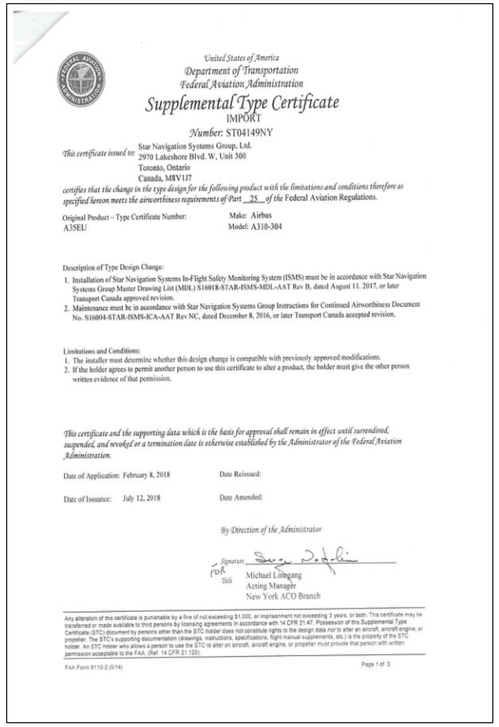
- See Continuation Sheet -

Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.

G. David
For Minister of Transport

Canada

空客 A320-232



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate
IMPORT
Number: ST04149NY

This certificate issued to: Star Navigation Systems Group, Ltd.
2970 Lakeshore Blvd. W, Unit 300
Toronto, Ontario
Canada, M8V1J7

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product – Type Certificate Number: A35EU
Make: Airbus
Model: A310-304

Description of Type Design Change:
1. Installation of Star Navigation Systems In-Flight Safety Monitoring System (ISMS) must be in accordance with Star Navigation Systems Group Master Drawing List (MDL) S16018-STAR-ISMS-MDL-AAT Rev B, dated August 11, 2017, or later Transport Canada approved revision.
2. Maintenance must be in accordance with Star Navigation Systems Group Instructions for Continued Airworthiness Document No. S16004-STAR-ISMS-ICA-AAT Rev NC, dated December 8, 2016, or later Transport Canada accepted revision.

Limitations and Conditions:
1. The installer must determine whether this design change is compatible with previously approved modifications.
2. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, and revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of Application: February 8, 2018
Date Reissued:
Date of Issuance: July 12, 2018
Date Amended:

By Direction of the Administrator

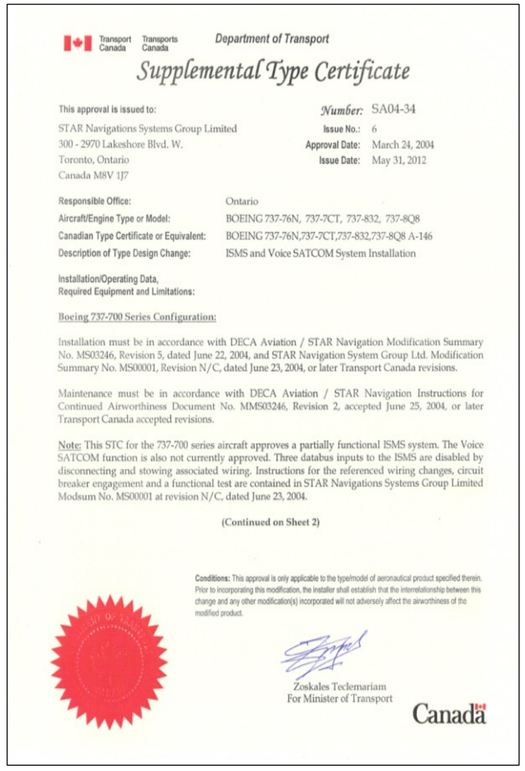
Signature
Title: Michael Lidegang, Acting Manager, New York ACO Branch

Any alteration of this certificate is punishable by a fine of not exceeding $1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120)

FAA Form 8110-2 (5/14)

Page 1 of 3

美國聯邦航空管理局 (FAA)



Transport Canada / Transports Canada

Department of Transport

Supplemental Type Certificate

This approval is issued to:
STAR Navigations Systems Group Limited
300 - 2970 Lakeshore Blvd. W.
Toronto, Ontario
Canada M8V 1J7

Number: SA04-34
Issue No.: 6
Approval Date: March 24, 2004
Issue Date: May 31, 2012

Responsible Office: Ontario
Aircraft/Engine Type or Model: BOEING 737-76N, 737-7CT, 737-832, 737-8Q8
Canadian Type Certificate or Equivalent: BOEING 737-76N,737-7CT,737-832,737-8Q8 A-146
Description of Type Design Change: ISMS and Voice SATCOM System Installation

Installation/Operating Data, Required Equipment and Limitations:

Boeing 737-700 Series Configuration:

Installation must be in accordance with DECA Aviation / STAR Navigation Modification Summary No. MS03246, Revision 5, dated June 22, 2004, and STAR Navigation System Group Ltd. Modification Summary No. MS00001, Revision N/C, dated June 23, 2004, or later Transport Canada revisions.

Maintenance must be in accordance with DECA Aviation / STAR Navigation Instructions for Continued Airworthiness Document No. MM503246, Revision 2, accepted June 25, 2004, or later Transport Canada accepted revisions.

Note: This STC for the 737-700 series aircraft approves a partially functional ISMS system. The Voice SATCOM function is also not currently approved. Three databus inputs to the ISMS are disabled by disconnecting and stowing associated wiring. Instructions for the referenced wiring changes, circuit breaker engagement and a functional test are contained in STAR Navigations Systems Group Limited Modsum No. MS00001 at revision N/C, dated June 23, 2004.

(Continued on Sheet 2)

Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated will not adversely affect the airworthiness of the modified product.

Zoskales Teclemariam
For Minister of Transport

Canada

波音 767-76N, 737-7CT, 737-832, 737-8Q8

Transport Canada / Transports Canada

Department of Transport

Supplemental Type Certificate

This approval is issued to:
Star Navigation Systems Group Ltd.
2970 Lakeshore Blvd.W
Unit 300
Toronto, Ontario
Canada M8V 1J7

Number: SA14-73
Issue No.: 2
Approval Date: October 28, 2014
Issue Date: December 03, 2014

Responsible Office: Ontario
Aircraft/Engine Type or Model: Learjet 45
Canadian Type Certificate or Equivalent: A-214

Description of Type Design Change: ISMS Installation

Installation/Operating Data, Required Equipment and Limitations:

Installation must be in accordance with Star Navigation Master Drawing List STAR-ISMS-MDL-006, Revision A, dated November 20, 2014, or later Transport Canada approved revisions.

Maintenance must be in accordance with Star Navigation Instructions for Continued Airworthiness STAR-ISMS-ICA-006, Revision NC, or later Transport Canada approved revision. Compliance with airworthiness limitation in chapter 3.0 is mandatory.

– End –

Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.

Vladan Vujosevic
For Minister of Transport

Canada

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STAR NAVIGATION SYSTEMS GROUP LTD

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STAR NAVIGATION

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