



ATR EXTERNAL CHANGE CATALOGUE

ATR 42 & 72
PRODUCT & SERVICES

Issue 04 - June 2023



ATR
UPGRADE SERVICES

Information

This catalogue provides a presentation of External Change Solutions aiming at enhancing the efficiency, comfort, and operations of ATR aircraft. All the External Change Solutions presented in this catalogue are designed, delivered and supported by our External Design Organizations partners (“*External DOA Partners*”).

All External DOA Partners have notably been selected on their ability to design and certify the External Change Solutions through the relevant authority.

Should you be interested in purchasing any External Change Solution presented in this catalogue, please contact directly the relevant(s) External DOA Partner(s) to request a quotation. All orders will be placed between your company and the relevant External DOA Partner. The Customer Support for each External Change Solution will be also performed directly by the relevant External DOA Partner.

The applicability of any presented External Change Solution depends on aircraft configuration and is equally subject to review by the External DOA Partners. Information on price range, weight change, lead time, and manpower is given as estimated guidelines only, and may be different according to aircraft configuration.

Should none of the available solutions presented in both **ATR Upgrade**

Services Catalogue and **ATR External Change Catalogue** fit your needs, please contact your ATR Services Sales Director or place a request on ATRactive Portal for further information.

The provisions (including but not limited to this paragraph ‘Information’), facts, pictures and figures provided in this catalogue do not constitute any offer and ATR reserves the right to modify the catalogue and its content at any time without notice and without any liability. ATR and its affiliates have no liability and do not provide any warranty, representation, whether expressed or implied, in contract, by law, statute or otherwise for the description, availability and/or performance of any of these External Change Solutions and in that respect there is no joint and several liability between ATR, its affiliates and the External Partners.

In any event, the External Partner remains exclusively liable for the External Change Solutions sold to your company, including but not limited to for the design definition of the External Change Solution (including definition, configuration, changes and continuing airworthiness). For the avoidance of doubt, ATR and its affiliates have no liability and do not provide any warranty, representation, whether expressed or implied, in contract, by law, statute or otherwise for the External Change Solution or its compatibility with future mandatory or not mandatory modifications. There is no joint and several liability between ATR, its affiliates and the External Partners regarding the External Change Solutions. Aircraft document update and Customer Support are also under the exclusive responsibility of the relevant External Partner.

Latest issue available on:



> Catalogues & Support > External Change Catalogue



Contents



INTRODUCTION

Information	2
Contents	3
Contents	4
User guide	5
Glossary	6
Glossary	7

EXTERNAL DOA PARTNERS PRESENTATION

Partners international footprint	9
AERO ENGINEERING SERVICES	10
ECM SKYSERVICES	11
EIRTECH AVIATION SERVICES	12
PMV ENGINEERING	13
SABENA TECHNICS BGC	14

FUSELAGE PROTECTIONS

Fuselage protections for unpaved runway operations	16
Fuselage protections from paved runway FOD	17



Contents



CABIN

• Cabin reconfiguration	19
• VIP cabin configuration	20
• Exit signs replacement	21
• Placards and markings replacement	22
• Emergency equipment replacement & relocation	23
• Automated External Defibrillator installation	24
• Floor covering replacement	25
• Seats replacement, refurbishing & repair	26
• Seat covers replacement	27
• Decorative laminate replacement	28
• In-seat power supply	29
• Oversize luggage in FWD cargo hold	30
• Hand sanitizers	31
• Halon free extinguisher for pre-Armonia cabins	32
• Standalone Wi-Fi IFE	33
• Aircraft powered Wi-Fi IFE	34
• Air-To-Ground cabin connectivity	35
• Satcom cabin connectivity	36
• Partition protections in cargo areas	37
• Multiple medical stretchers transportation	38
• AFT cargo loading assistance system	39

COCKPIT & AVIONICS

• Universal cradle for EFB tablets	41
• LPV approach capability (ROCKWELL XPDR)	42
• LPV approach capability (ACSS XPDR)	43
• HF for ferry flights of pre-NAS aircraft	44
• SATCOM cockpit connectivity	45

EXTERNAL LIVERIES

• Technical markings	47
• White and customized liveries	48

PAX TO FREIGHTER

• Bulk Freighter Conversion (Sabena BFC)	50
• Bulk Freighter Conversion (IPR BFC)	51
• Floor to floor nets with ATR Class E	52
• Double seat bags	53
• Large cargo door	54

User guide

Glossary

TERMS & ABBREVIATIONS	DEFINITION
DOA	D esign O rganization A pproval - The recognition that a Design Organization complies with the requirements of EASA Part 21 Subpart J.
POA	P roduction O rganization A pproval - The recognition that a Production Organization complies with the requirement of EASA Part 21 Subpart G.
STC	S upplemental T ype C ertificate - A national aviation authority approved major modification or repair to an existing type certified aircraft, engine or propeller.
SB	S ervice B ulletin - The document used to communicate details of modifications which can be embodied in aircraft.
EO	E ngineering O rders - The document that explains how a check can be done and how to plan and keep track of modifications of components.
ICAO	The I nternational C ivil A viation O rganization is a specialized agency of the United Nations
NAS	N ew A vionics S uite. The latest avionics system of ATR aircraft, installed on ATR 42 MSN 859 and ATR 72 MSN 940 and higher (with exceptions), this avionics suite is manufactured by Thales.
LPV	L ocalizer P erformance with V ertical guidance
ADS-B OUT	A utomatic D ependent S urveillance- B roadcast
XPDR	Transponder is short for transmitter-responder and sometimes abbreviated to XPDR
RNAV	A rea N avigation is a method of navigation that permits aircraft operation on any desired course within the coverage of station-referenced navigation signals or within the limits of a self-contained system capability, or a combination of these
FOD	F oreign O bject D ebris - includes any object found in an inappropriate location that, as a result of being in that location, can damage equipment or injure personnel



User guide

Glossary

TERMS & ABBREVIATIONS	DEFINITION
BFC	Bulk Freight Cargo - Bulk cargo is a shipping term for items that are shipped loosely and unpackaged as opposed to being shipped in packages or containers
LCD	Large Cargo Door – Structural modification that allows to install a larger cargo door than the standard one.
SATCOM	Satellite Communication - Aircraft onboard equipment for SATCOM includes a satellite data unit, a high power amplifier and an antenna with a steerable beam
Wi-Fi	System for connecting electronic equipment such as computers and electronic organizers without using wires
AED	Automated External Defibrillator - Device that automatically analyzes the heart rhythm and that if it detects a problem that may respond to an electrical shock to restore a normal heart rhythm.
SBAS	Satellite-Based Augmentation Systems support wide-area or regional augmentation through the use of additional satellite-broadcast messages.
NEW LOOK	The cabin interiors of ATR aircraft installed prior to the Armonia Cabin interior, installed on ATR 42 MSN 443 and ATR 72 MSN 468 and higher (with exceptions).
ARMONIA	The newest Cabin interiors of ATR aircraft installed on ATR 42 MSN 859 and ATR 72 MSN 958 and higher (with exceptions).
LEGACY	All avionics suite systems embedded on ATR aircraft before New Avionics Suite (NAS).
ACARS	Aircraft Communication Addressing and Reporting System - data exchange between aircraft and flight operations centers or air traffic control
ACD	Aircraft Configuration Data
AISD	Aircraft Information Services Domain





External DOA partners presentation

ATR

External DOA partners

International footprint

PARTNER	LOCATION
	FRANCE
	FRANCE
	IRELAND, UNITED KINGDOM, SINGAPORE, UNITED STATES
	FRANCE
	FRANCE, CANADA, DUBAI, SINGAPORE, UNITED STATES



External DOA partners

Presentation



OVERVIEW

Aero Engineering Services is specialized in turnkey solutions for aircraft interior retrofit supported by **PART 21J** and **PART 21G** approval.

- Engineering and Certification: specialized in cabin modification design and certification including; LOPA change, textile change, monument refurbishment, livery change, interior and exterior markings change, etc.
- Parts Manufacturing: all textile parts in the aircraft (seat covers, carpet kits, curtains, pouches, mooring kits, etc.), exterior markings, exterior decor stencils/decals, interior placards.

Aero Engineering Services support you with a complete package of services.

Engineering



Leather and Textile



Kitting Solutions



Product design



Placards and Markings



REGIONAL COVERAGE

- Worldwide network coverage
- Multi-disciplinary team with wide experience and capability to provide assistance to customers and address all types of projects globally

KEY INFORMATION

- Large range of customers: airlines, MRO, and lessors
- In-house placards, markings, stencils, decorative films, seats covers, carpet, curtains, pleated curtains and other textile manufacturing
- PART 21J (DOA) approved No. EASA.21J.624
- PART 21G (POA) approved No. FR.21G.0289
- large suppliers network on kits solution (seats or seats shipset, galleys, closets, partitions, etc.)

CONTACT



Mr. Raphael DASSE



135 Av. du Comminges, 31270 Cugnaux, France



+33 (0)6 52 08 24 42



raphael.dasse@aero-engineering-services.com



www.aero-engineering-services.com



External DOA partners

Presentation



OVERVIEW

ECM is a subsidiary of CRIT group and its expertise activity SKY SERVICES holds **EASA Part 21J** approval on all types of aircraft.

The SKY SERVICES department relies on a group of technical experts in aircraft modifications and retrofits (cabin, avionics, electrical system and structure).

ECM operates on all types of commercial, business, military and VIP aircraft and offers a customized solution from engineering to certification activities, including associated kit supply, management of Vendors and OEMs, as well as support for integration on aircraft.

ECM's agility and expertise make it possible to offer an optimized solution to operators, airlines and lessors at the best costs. The gain is a reduction in downtime for aircraft in service, and integration of innovative solution.



REGIONAL COVERAGE

ECM support its customer worldwide, from our Sky-services department headquarter in Toulouse, to customer facilities.

KEY INFORMATION

- Founded in 1973, revenues : 25 M €, fully owned subsidiary of CRIT Group (USD 3 billion in revenues)
- PART 21J (DOA) approved No. EASA.21J.464 since 2015
- 400 Experts and engineers, including 50 cabin specialists
- More than 185 aircraft modification programs (SA, LR, and Business Jet)
- More than 115 Retrofits on civil or military aircraft

CONTACT

- Mr. Luc BOYER
- 14 Rue des Briquetiers, 31700 Blagnac, France
- +33 (0)5 62 74 16 56
- sky-services@ecm-be.com
- www.sky-services.ecm-be.com



External DOA partners

Presentation



OVERVIEW

Eirtech Aviation Services (EAS) is a world-leading specialist Aviation Services Company providing tailor made engineering services, and asset management solutions that ensure regulatory compliance to International Airlines, Private Operators and Aviation Leasing companies across the globe.

ENGINEERING



PRODUCTION



MATERIALS



CAMO



TECHNICAL SERVICES



REGIONAL COVERAGE

- Eirtech Aviation provides Global coverage to our Customers
- Headquartered in Shannon, Ireland with offices also based in Dublin, Belfast, London, Las Vegas & Singapore

KEY INFORMATION

- Design Engineering, Production, CAMO, Materials, and Technical Services
- EASA, FAA, GCCA and other global aviation approvals as required.
- Part 21J (DOA) approved No. EASA.21J.452 / UK.21J.0087
- Part 21G (POA) approved No. IE.21G.0002
- Turnkey services to support airlines, aircraft leasing companies and OEMs for fleet transitions and modifications

CONTACT

-  Mr. Declan O'BRIEN
-  154 Shannon Industrial Estate, Co.Clare, V14W984 Ireland
-  00 353 (0)61 471 800
-  eassales@etas.ie
-  www.eirtechaviation.ie



External DOA partners

Presentation



OVERVIEW

PMV Engineering is an EASA approved Design Organisation (DOA 21J.487) for minor changes and STCs, as well as minor and major repairs.

With more than 20 years of involvement in aerospace, PMV Engineering' team provides time and cost effective solutions for:

- Cabin interiors,
- Cabin systems & connectivity,
- Avionics modifications,
- External liveries,
- Aircraft structure and repairs,
- Environmental control systems,
- ATR Pax-to-Freighter conversions (Bulk Freighter with or without Large Cargo door (LCD)) on behalf of ACIA/ IPR Conversions (STC owner),
- Modifications associated kits and parts for small & large aircraft, either in commercial or VIP configuration thanks to a strong partnership with JVaeroservices.

Cabin interior modifications



Cabin systems & connectivity



Avionics modifications



External liveries



Structure & repairs



REGIONAL COVERAGE

- PMV Engineering works with more than 250 customers around the world (aircraft manufacturers, lessors, OEMs, MROs and airlines).

KEY INFORMATION

- More than 700 minor and major modifications
- PART 21J (DOA) approved No. EASA.21J.487
- GCAA Design Organization approved No. DOA/132
- PART 21G (POA) with JVaeroservices No. FR.21G.0166
- PART 145 with JVaeroservices No. FR.145.0378

CONTACT



Mr. Olivier JAN



60 Imp. de Varsovie, 82000 Montauban, France



+33 6 24 17 37 17



contact@pmv-engineering.com



www.pmv-groupe.com

External DOA partners

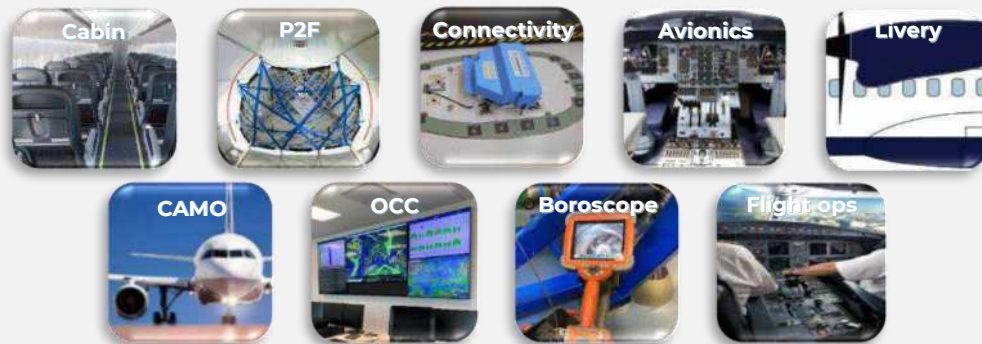
Presentation



OVERVIEW

SABENA TECHNICS BGC benefits from over 25 years of experience thanks to the acquisition of the activity and agreements from Aeroconseil / Akka / Akkodis :

- **DOA PART 21J, POA PART 21G:**
 - ✓ With specialty on Pax to Freighter Cargo Conversions, Cabin, Avionics, Structure, Electrics, Repair, Connectivity, Livery
 - ✓ Design, Engineering, Certification package, Supply of the associated certified kits, Manual supplements
 - ✓ 10 CVEs
- **PART CAMO** (EASA, Cayman, Bermudan) and Redelivery management
- **PART 145 Borescope** capacity



REGIONAL COVERAGE

Nearly 200 engineering experts are present worldwide :

- HQ in Toulouse
- Offices in Montreal, Dubai, Singapore
- Teams also in Germany + USA

KEY INFORMATION

Strong track record on successful STC / SB on ATR. At a glance:

- 180 projects on ATR A/C
- 330 A/C modified
- Customers are lessors, airlines and MROs

CONTACT

- Ms. Mojca SVENSEK
- 9 Boulevard H Ziegler, 31700 BLAGNAC, France
- +33 6 77 24 61 35
- mod.quotationoffice@sabenatechnics.com
- www.sabenatechnics.com





Fuselage protections

ATR

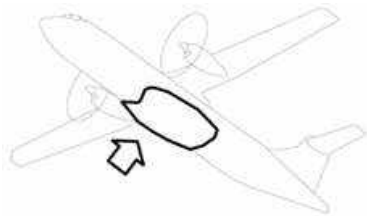
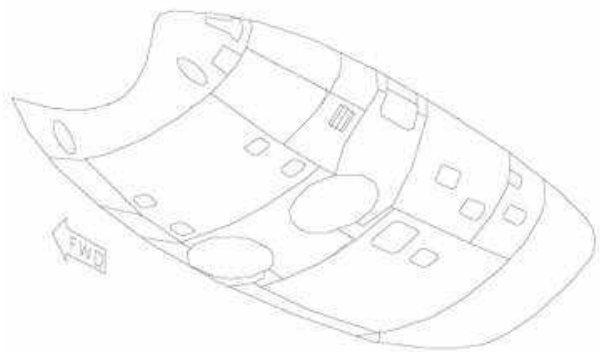
Fuselage protections

Fuselage protection for unpaved runway operations

DESCRIPTION

The solution consists in replacing Marbill® coating proposed in the ATR Service Bulletin by the alternate material 3M Tape. Depending on customer request, the protections can be extended to other areas than the ones suggested in the Service Bulletin. The 3M tape is available in different colors and can be painted (tape not included in solution price).

The ATR Service Bulletin is a mandatory pre-requisite to allow operations on unpaved runways (dry, wet or contaminated) through the update of operational documentation.



APPLICABILITY For information only. Applicability of the modification to each MSN is subject to validation.

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	N/A
ATR 72	ALL	New Avionics Suite	N/A	New Look	N/A
				Armonia	N/A

BENEFITS

- Compliance with local regulations
- No panel removal, on-aircraft modification
- Maintenance reduction costs (due to reduction of the damage risks)

OPERATIONAL COSTS SAVINGS	MAINTENANCE COSTS SAVINGS	OPERATIONAL BOOST	PASSENGER COMFORT	CREW EFFICIENCY
-	✓	✓	-	-

PRE-REQUISITE

ATR Service Bulletin to Install protections for operations on unpaved runways

SEE ALSO

- Protection for operations on Unpaved Runways

PACKAGE CONTENT

- STC Package (SB / Installation drawings)
- Manual supplements
- Instructions for continued airworthiness

Price	From \$ 20,000
Weight	21 kg
Lead time	8 weeks
Manpower	24 hours

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Fuselage protections

Fuselage protection from paved runway FOD

DESCRIPTION

The solution consists in the application of 3M tape on areas (except engine components and flight surfaces) to protect it from runway Foreign Object Debris (ice, sand, small debris, etc.). Areas to be protected can be customized (belly fairing, fuselage, MLG bay, etc.). The 3M tape is available in different colors and can be painted (tape not included in solution price).

Note: this solution on its own does not allow operations on Unpaved Runways.



APPLICABILITY For information only. Applicability of the modification to each MSN is subject to validation.

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	N/A
ATR 72	ALL	New Avionics Suite	N/A	New Look	N/A
				Armonia	N/A

BENEFITS

- Maintenance reduction costs (due to reduction of the damage risks)
- Customizable solution depending on customer need

OPERATIONAL COSTS SAVINGS	MAINTENANCE COSTS SAVINGS	OPERATIONAL BOOST	PASSENGER COMFORT	CREW EFFICIENCY
-	✓	-	-	-

PRE-REQUISITE

ATR Service Bulletin to Install protections for operations on unpaved runways

SEE ALSO

- Anti-collision light protection

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Manual supplements
- Instructions for continued airworthiness

Price	From \$ 13,000
Weight	Depending on configuration
Lead time	8 weeks
Manpower	24 hours


CONTACT



Subject to a possible specific adaptation to the relevant MSN.





 **Cabin**

ATR

Cabin

Cabin reconfiguration

DESCRIPTION

Aircraft cabin configuration can be modified to accommodate specific customer choices and operational needs, from high density to comfort configuration. Various solutions with different types of galleys and storages are available.

Configuration of Original, New Look and Armonia cabins is customizable from color choice to general arrangement.



PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Manual supplements
- Installation kit
- Instructions for continued airworthiness
- Equipment

APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	YES

BENEFITS

- Higher per-flight profits due to increased aircraft capacity
- Fleet commonality in terms of passenger capacity

OPERATIONAL COSTS SAVINGS	MAINTENANCE COSTS SAVINGS	OPERATIONAL BOOST	PASSENGER COMFORT	CREW EFFICIENCY
✓	-	-	✓	-

PRE-REQUISITE

NONE

SEE ALSO

- VIP cabin configuration
- Cabin reconfiguration

CONTACT



Price	On quote
Weight	Depending on configuration
Lead time	Depending on configuration
Manpower	Depending on configuration

Subject to a possible specific adaptation to the relevant MSN.



Cabin

VIP cabin configuration

DESCRIPTION

Reconfiguring VIP cabin or converting PAX cabin to VIP cabin.
New specific seats, sofas and monuments can be provided as well as refurbished ones.



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	YES

BENEFITS

- Improved comfort for specific requirements

OPERATIONAL COSTS SAVINGS	MAINTENANCE COSTS SAVINGS	OPERATIONAL BOOST	PASSENGER COMFORT	CREW EFFICIENCY
-	-	✓	✓	-

PRE-REQUISITE

NONE

SEE ALSO

- Cabin reconfiguration

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Manual supplements
- Instructions for continued airworthiness
- Equipment
- Installation kit

Price	On quote
Weight	Depending on configuration
Lead time	Depending on configuration
Manpower	Depending on configuration

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cabin

Exit signs replacement

DESCRIPTION

Replace or modify the exit lenses in the aircraft cabin.
The solution is available in various languages and pictograms.



APPLICABILITY For information only. Applicability of the modification to each MSN is subject to validation.

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	YES

BENEFITS

- Fleet commonality
- Compliance to local authorities regulations
- Aircraft transition

OPERATIONAL COSTS SAVINGS	MAINTENANCE COSTS SAVINGS	OPERATIONAL BOOST	PASSENGER COMFORT	CREW EFFICIENCY
-	-	✓	✓	-

PRE-REQUISITE

NONE

SEE ALSO

- Placards & markings replacement

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Manual supplements
- Instructions for continued airworthiness
- Equipment
- Installation kit

Price	On quote
Weight	Depending on configuration
Lead time	Depending on configuration
Manpower	Depending on configuration

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cabin

Placards & markings replacement

DESCRIPTION

Replace partial or complete set of interior placards and markings. The solution is available in various languages and pictograms. Placards categories:

- Mandatory placards
- Sanitary measures
- Passengers and Crew recommendations



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	YES

BENEFITS

- Fleet commonality
- Compliance to local authorities regulations
- Aircraft transition

OPERATIONAL COSTS SAVINGS	MAINTENANCE COSTS SAVINGS	OPERATIONAL BOOST	PASSENGER COMFORT	CREW EFFICIENCY
-	-	✓	✓	-

PRE-REQUISITE NONE

SEE ALSO

- Exit signs replacement
- Decorative laminate replacement

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Manual supplements
- Instructions for continued airworthiness
- Installation kit

Price	From \$ 3,000
Weight	Depending on configuration
Lead time	3 weeks
Manpower	Depending on configuration

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cabin

Emergency equipment replacement and relocation

DESCRIPTION

Relocate, replace, remove or add emergency equipment:

- Extinguisher
- First aid kit
- Megaphone
- Flashlight
- Life vest
- Seat belt
- Fire fighting glove
- Portable ELT



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	YES

BENEFITS

- Optimize equipment disposal in the cabin
- Aircraft transition
- Compliance to local authorities regulations



OPERATIONAL COSTS SAVINGS



MAINTENANCE COSTS SAVINGS



OPERATIONAL BOOST



PASSENGER COMFORT



CREW EFFICIENCY

-

-

-

-



PRE-REQUISITE

NONE

SEE ALSO

- Halon free extinguisher for pre-Armonia cabins
- Halon free extinguisher for Armonia cabins

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Manual supplements
- Instructions for continued airworthiness
- Installation kit
- Equipment

Price	On quote
Weight	Depending on configuration
Lead time	Depending on configuration
Manpower	Depending on configuration

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cabin

Automated External Defibrillator installation

DESCRIPTION

The use of Automated External Defibrillators (AED) is essential to increase the chances of survival in case of a cardiac arrhythmias such as ventricular fibrillation (VF) and non-perfusing ventricular tachycardia (VT) when used in the first 10 minutes.

EASA AMC1 CAT.IDE.A.220 (b) (4) stipulates that the aircraft operators having at least one cabin crew should carry Automated External Defibrillator (AED) on board. This solution consists in the installation of provisions (brackets and placards) to allow the installation of an AED that will not exceed 4 kg.

External DOA Partner will assist you to:

- Select the right model of AED to be installed (example below : Zoll AED 3 Defibrillator)
- Define the area where the AED shall be installed
- Design the installation kit to secure the AED
- Re-locate other emergency equipment if needed



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	YES

BENEFITS

- Improve medical emergency support on board
- Comply with EASA AMC1 CAT.IDE.A.220



OPERATIONAL COSTS SAVINGS

-



MAINTENANCE COSTS SAVINGS

-



OPERATIONAL BOOST

-



PASSENGER COMFORT



CREW EFFICIENCY



PRE-REQUISITE

NONE

SEE ALSO

- Emergency equipment replacement and relocation

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Equipment
- Manual supplements

Price	From \$ 3,000
Weight	4 kg max.
Lead time	From 2 weeks
Manpower	2 hours

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cabin

Floor covering replacement

DESCRIPTION

Replace or install textile or non-textile floor covering and path markings in passenger cabin, entry area or flight deck. Solution available in various patterns and colors



APPLICABILITY For information only. Applicability of the modification to each MSN is subject to validation.

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	YES

BENEFITS

- Improve cabin comfort
- Fleet commonality
- Aircraft transition
- Compliance to local authorities regulations



OPERATIONAL COSTS SAVINGS

-



MAINTENANCE COSTS SAVINGS

-



OPERATIONAL BOOST

-



PASSENGER COMFORT



CREW EFFICIENCY

-

PRE-REQUISITE

NONE

SEE ALSO

- Seats replacement, refurbishing & repair
- Seat covers replacement

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements



Price

On quote



Weight

Depending on configuration



Lead time

Depending on configuration



Manpower

Depending on configuration

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



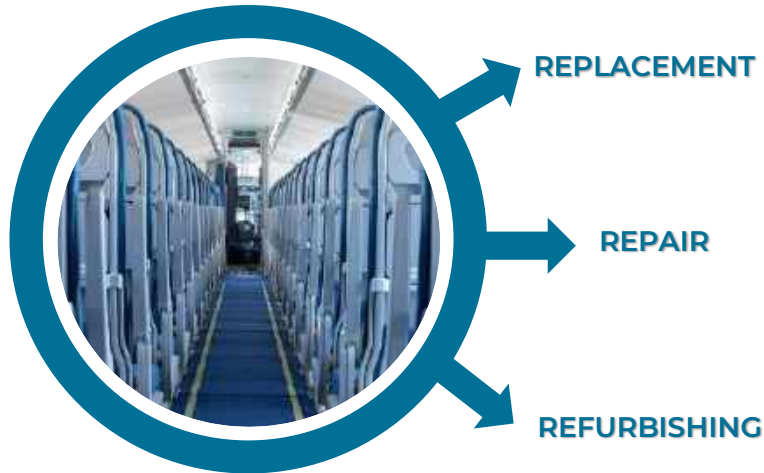
Cabin

Seats replacement, refurbishing and repair

DESCRIPTION

The modification offers solutions such as;

- Seats replacement
- Seats refurbishing
- Seats repair
- Seat belt replacement
- Foam replacement
- Seat cushion replacement
- Soft plastic replacement
- Front and rear stud inspection, etc.



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	YES

BENEFITS

- Improve cabin comfort
- Airline differentiation
- Fleet commonality



OPERATIONAL
COSTS SAVINGS



MAINTENANCE
COSTS SAVINGS



OPERATIONAL
BOOST

-



PASSENGER
COMFORT



CREW
EFFICIENCY

-

PRE-REQUISITE

NONE

SEE ALSO

- Floor covering replacement
- Seat covers replacement

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements

Price	On quote
Weight	Depending on configuration
Lead time	Depending on configuration
Manpower	Depending on configuration

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cabin

Seats covers replacement

DESCRIPTION

Replace seat covers (leather or fabric material).
The solution is available in various patterns, quality and colors.



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	YES

BENEFITS

- Improve cabin comfort and passenger experience
- Fully customizable
- Fleet commonality

OPERATIONAL COSTS SAVINGS	MAINTENANCE COSTS SAVINGS	OPERATIONAL BOOST	PASSENGER COMFORT	CREW EFFICIENCY
-	✓	-	✓	-

PRE-REQUISITE

NONE

SEE ALSO

- Floor covering replacement
- Seats replacement, refurbishing and repair

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements

Price	On quote
Weight	Depending on configuration
Lead time	Depending on configuration
Manpower	Depending on configuration

CONTACT



Subject to a possible specific adaptation to the relevant MSN.

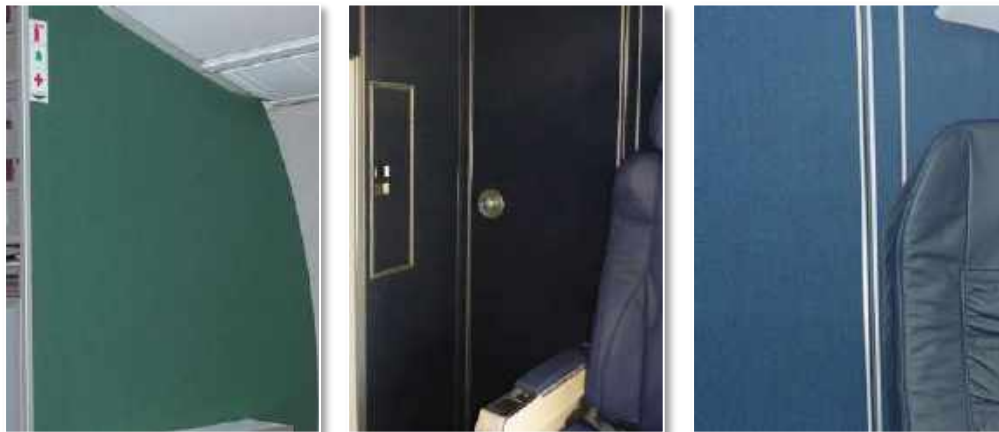


Cabin

Decorative laminate replacement

DESCRIPTION

Replace or install decorative films onto cabin partitions and monuments. This solution is available in various colors, and customized decoration. In addition, a large option of suppliers can be advised or proposed by the operator.



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	YES

BENEFITS

- Provide a fully customizable interior look
- Fleet commonality
- Aircraft transition



OPERATIONAL COSTS SAVINGS

-



MAINTENANCE COSTS SAVINGS

-



OPERATIONAL BOOST

-



PASSENGER COMFORT



CREW EFFICIENCY

-

PRE-REQUISITE

NONE

SEE ALSO

- Placards and markings replacement

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Installation kit
- Instructions for continued airworthiness
- Manual supplements



Price

On quote



Weight

Depending on configuration



Lead time

2 weeks



Manpower

24 hours

CONTACT



Subject to a possible specific adaptation to the relevant MSN.

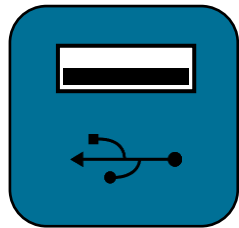


Cabin

In-seat power supply

DESCRIPTION

Install in-seat power supply (USB port) and associated aircraft hardware.



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	YES

BENEFITS

- Provide an additional function to passengers
- Enhance air travel experience

OPERATIONAL COSTS SAVINGS	MAINTENANCE COSTS SAVINGS	OPERATIONAL BOOST	PASSENGER COMFORT	CREW EFFICIENCY
-	-	✓	✓	-

PRE-REQUISITE

NONE

SEE ALSO

NONE

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment

Price	On quote
Weight	Depending on configuration
Lead time	Depending on configuration
Manpower	Depending on configuration

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cabin

Oversize luggage in forward cargo hold

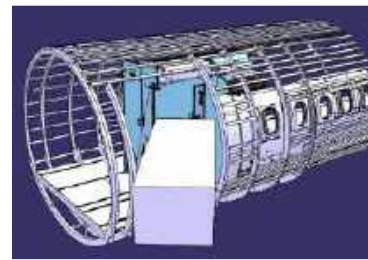
DESCRIPTION

Modify layout arrangement in forward cargo hold in all cabins in order to transport massive objects such as;

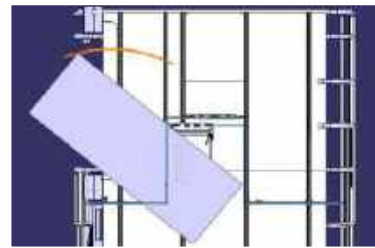
- Coffins (Compliance to IATA Airport Handling Manual (AHM))
- Musical instruments
- Surfboard and longboard
- Bicycles (Mountain bikes)
- Ski equipment
- Etc.



SPORTS EQUIPMENT



COFFIN LAYOUT



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	YES

BENEFITS

- Improve transportation capabilities for specific requirements
- Enhanced logistics management



OPERATIONAL COSTS SAVINGS

-



MAINTENANCE COSTS SAVINGS

-



OPERATIONAL BOOST



PASSENGER COMFORT

-



CREW EFFICIENCY

-

PRE-REQUISITE

NONE

SEE ALSO

NONE

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Installation kit
- Instructions for continued airworthiness
- Manual supplements
- Equipment



Price

On quote



Weight

Depending on configuration



Lead time

Depending on configuration



Manpower

Depending on configuration

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cabin

Hand sanitizers

DESCRIPTION

Install different wall mounted hand sanitizers protecting Crew and Passengers. Multiple installation locations available in cabin, lavatories, and cockpit.

In option, foam sanitizer can be proposed. This product is Mild, Non-Toxic, Non-Irritant, Non-Hazardous, Ecologically Harmless and alcohol free.



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	YES

BENEFITS

- Easy sanitization of Passengers and Crew
- As effective as Alcohol based gel
- Airline Branding available on Bottles



OPERATIONAL COSTS SAVINGS

-



MAINTENANCE COSTS SAVINGS

-



OPERATIONAL BOOST



PASSENGER COMFORT



CREW EFFICIENCY

-

PRE-REQUISITE

NONE

SEE ALSO

NONE

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements

Price	From \$ 6,000 per fleet
Weight	~ 250 g
Lead time	2 weeks
Manpower	1 hour

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cabin

Halon free extinguishers for pre-Armonia cabins

DESCRIPTION

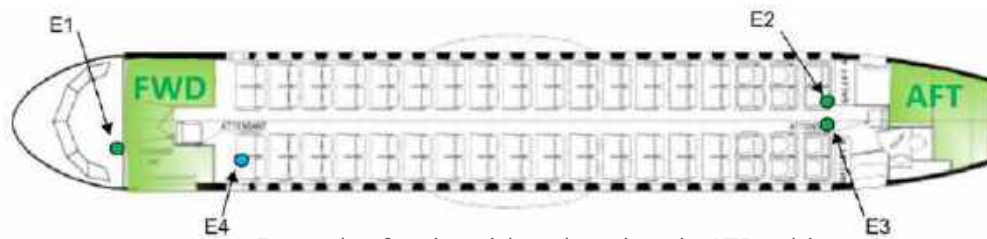
Under ICAO recommendations, the use of halon in aircraft fire extinguishing application will no longer be authorized by 2025 due to environmental concerns. The modification consists in replacing the cabin halon fire extinguishers by portable Ümlaut extinguishers (P3 Hafex).

Note: the upgrade solution entails a modification of diffusers and adaptors in AFT cargo area.



New extinguisher

New receptacle in AFT cargo partition



Example of extinguishers locations in ATR cabin

APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	NO

STC

BENEFITS

- Compliance with ICAO recommendation and local authorities regulations
- Environment friendly



OPERATIONAL COSTS SAVINGS



MAINTENANCE COSTS SAVINGS



OPERATIONAL BOOST



PASSENGER COMFORT



CREW EFFICIENCY

-

-

-

-

-

PRE-REQUISITE

NONE

SEE ALSO

- Cabin halon free extinguishers for Armonia

PACKAGE CONTENT

- STC Package (SB / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment



Price

Depending on configuration



Weight

Depending on configuration



Lead time

Depending on configuration



Manpower

Depending on configuration

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cabin

Standalone Wi-Fi IFE

DESCRIPTION

In-Flight Entertainment (IFE) system is one among many services that on-board Wi-Fi servers can deliver. PMV can support you at every stage of your IFE project with a turnkey solution, starting with your high-level requirements to daily management on your behalf.

More in details, closely with PMV, you will be able to:

- Select the most accommodate standalone Wi-Fi IFE product for your needs;
- Customize passengers and crew portals to appear on Personal Electronic Devices;
- Select and manage the contents of your IFE system with movies, audio, magazines...
- Monetize your contents through commercial partnership as an example;



Content management can be proposed by :



The applied methodology encompasses a P&L projection to ensure a maximized ROI federating all the involved stakeholders.

Example of hardware proposed :



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	YES	Original	YES
ATR 72	ALL	New Avionics Suite	YES	New Look	YES
				Armonia	YES

BENEFITS

- Elevated passenger experience
- Boost your airline ancillary revenues
- Operational cost savings



OPERATIONAL COSTS SAVINGS

-



MAINTENANCE COSTS SAVINGS

-



OPERATIONAL BOOST



PASSENGER COMFORT



CREW EFFICIENCY



PRE-REQUISITE

ATR IFE wireless streaming capability

SEE ALSO

- Aircraft Powered Wi-Fi IFE
- ATR Aircraft tolerance with T-PED Wi-Fi

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment



Price

On quote



Weight

Mini 2 kg per box + 0.7 kg batteries when applies



Lead time

Max 16 weeks



Manpower

Depending on configuration

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cabin

Aircraft powered Wi-Fi IFE

DESCRIPTION

aWAP-MS (aircraft Wireless Access Point with Media Server) provides aircraft cabin with Wi-Fi coverage through a Wireless Local Area Network while hosting data. aWAP-MS allows operators to offer crew and passengers, various Data and In-Flight Entertainment (IFE) Services, while minimizing investments and optimizing their profits:

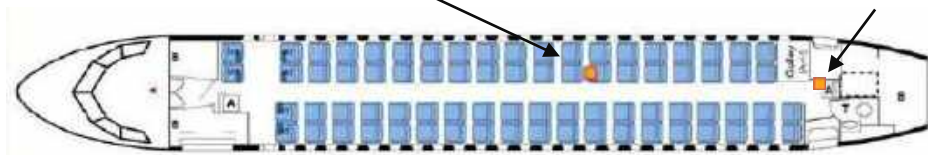
- Passengers through their own device (Bring Your Own Device (BYOD) concept)
- Crew through dedicated devices (tablets, ...)

aWAP-MS is a very high throughput, compact and lightweight “all in one” equipment with 1TB Storage Capacity. The system can also provide Internet connectivity by coupling Satcom system. Contents providers can be proposed in the package.



aWAP-MS recommended location (A/C powered)

Control Panel recommended location



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	YES	Original	YES
ATR 72	ALL	New Avionics Suite	YES	New Look	YES
				Armonia	YES

BENEFITS

- Elevated passenger experience
- Boost your airline ancillary revenues
- Operational cost savings



OPERATIONAL COSTS SAVINGS

-



MAINTENANCE COSTS SAVINGS

-



OPERATIONAL BOOST



PASSENGER COMFORT



CREW EFFICIENCY



PRE-REQUISITE

ATR IFE wireless streaming capability

SEE ALSO

- Satcom cabin connectivity
- ATR Aircraft tolerance with T-PED Wi-Fi

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment (aWAP-MS)

Price	From \$ 25,000
Weight	< 10 kg
Lead time	Max 4 months
Manpower	10 hours

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cabin

Air-To-Ground cabin connectivity

DESCRIPTION

Air-To-Ground technology means your transmissions are travelling across shorter distances to and from the aircraft than satellite-based systems. Coupled with innovative antenna technologies, beamforming and a unique network architecture, this translates to very low latency for today's cloud-based applications and services including, videoconferencing, VPN access, streaming, aircraft telematics, large data transfers and more.

The modification consists in the installation of two antennas and one aircraft base radio. This system will provide aircraft connectivity, but it must be connected to a Wi-Fi router to allow passengers to connect their personal devices (see Aircraft Powered Wi-Fi IFE available in this catalogue).

Today, the only 4G LTE available network is in the United States, but other countries are deploying such network.



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	YES	Original	YES
ATR 72	ALL	New Avionics Suite	YES	New Look	YES
				Armonia	YES

BENEFITS

- Elevated passenger experience
- Optimized end-to-end network
- High speed connectivity

OPERATIONAL COSTS SAVINGS	MAINTENANCE COSTS SAVINGS	OPERATIONAL BOOST	PASSENGER COMFORT	CREW EFFICIENCY
-	-	✓	✓	✓

PRE-REQUISITE

ATR IFE wireless streaming capability

SEE ALSO

- Aircraft powered Wi-Fi IFE
- ATR Aircraft tolerance with T-PED Wi-Fi

PACKAGE CONTENT

- STC Package (SB / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment

Price	From \$ 125,000
Weight	< 10 kg
Lead time	Max 4 months
Manpower	50 hours

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cabin

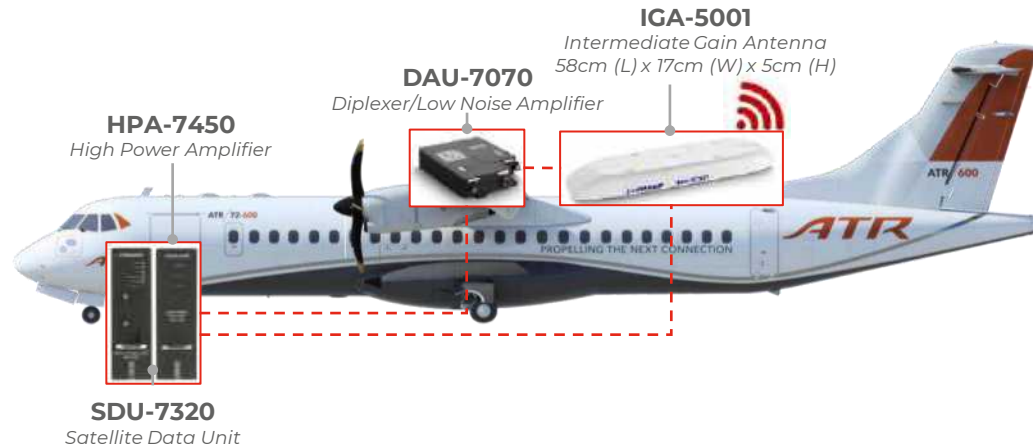
Satcom cabin connectivity

DESCRIPTION

This solution consists in the installation of a Satcom system that will bring internet connectivity to the passengers.

COBHAM Aviator 600SP is a 2 channel Swift Broadband system that provides in-flight connectivity access to internet for email, text messages, Voice-calls Over IP and many other applications. This is a Class 7 L-band solution that allows up-to 664 Kbps (2 x 332Kbps) data rate over Inmarsat Network ensuring high reliability and worldwide coverage.

This system will provide aircraft connectivity but it must be connected to a Wi-Fi router to allow passengers to connect their personal devices. The Aircraft Powered Wi-Fi IFE solution is also available in this catalogue



APPLICABILITY For information only. Applicability of the modification to each MSN is subject to validation.

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	YES	Original	YES
ATR 72	ALL	New Avionics Suite	YES	New Look	YES
				Armonia	YES

BENEFITS

- Elevated passenger experience
- Optimized end-to-end network

OPERATIONAL COSTS SAVINGS	MAINTENANCE COSTS SAVINGS	OPERATIONAL BOOST	PASSENGER COMFORT	CREW EFFICIENCY
-	-	✓	✓	✓

PRE-REQUISITE

ATR IFE wireless streaming capability

SEE ALSO

- Aircraft powered Wi-Fi IFE
- ATR Aircraft tolerance with T-PED Wi-Fi

PACKAGE CONTENT

- STC Package (SB / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment

Price	From \$ 150,000
Weight	20 kg
Lead time	4 months
Manpower	60 hours

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cabin

Partition protections in cargo areas

DESCRIPTION

This solution consist in the installation of :

- Protection against impact on partitions in both AFT and FWD cargo areas
- Panel edge caps to the Forward Cargo Hold panel exposed edges



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	YES

BENEFITS

- Partitions protected against luggage impacts
- Reduce repair rate on partitions



OPERATIONAL COSTS SAVINGS

-



MAINTENANCE COSTS SAVINGS



OPERATIONAL BOOST

-



PASSENGER COMFORT

-



CREW EFFICIENCY

-

PRE-REQUISITE

NONE

SEE ALSO

- Cargo area floor covering

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment



Price

On quote



Weight

Depending on configuration



Lead time

Depending on configuration



Manpower

Depending on configuration

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cabin

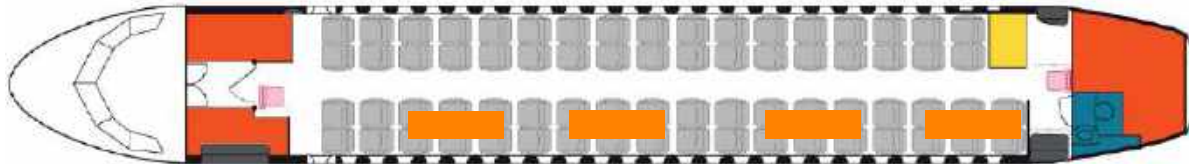
Multiple medical stretchers transportation

DESCRIPTION

This modification allows the installation from 1 to 3 stretcher carriers aboard ATR42 and from 1 to 4 in an ATR72 for medical evacuation flights.

The stretchers must be qualified for ATR42/72 through an ETSO. PMV Engineering can recommend airworthy equipment.

Emergency equipment layout, flight crew and cabin crew procedures are adapted to these medical evacuation flights that allows medical crew to be next to the patient.



Example of configuration with 4 stretchers in an ATR 72



Example of Stretchers

APPLICABILITY For information only. Applicability of the modification to each MSN is subject to validation.

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	YES

BENEFITS

- Several evacuations are possible simultaneously
- Easy and Quick Installation above the passenger seats

OPERATIONAL COSTS SAVINGS	MAINTENANCE COSTS SAVINGS	OPERATIONAL BOOST	PASSENGER COMFORT	CREW EFFICIENCY
-	-	✓	-	-

PRE-REQUISITE

NONE

SEE ALSO

- ATR Service Bulletin to install foldable bulkhead
- ATR Service Bulletin for quick disconnect front partition

PACKAGE CONTENT

- STC Package (SB / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment in option (stretchers)

Price	From \$ 10,000
Weight	Approx. + 5 kg
Lead time	8 weeks
Manpower	Approx. 4 hours

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cabin

AFT cargo loading assistance system

DESCRIPTION

The cargo Loading Assistance System allows easier loading and unloading of the AFT cargo compartment for both ATR 42 and ATR 72 aircraft models. This solution permits to convey the luggages from the service door to the upper rear cargo area bay.

During flight phases, the system should be tied in a storage position. This roller conveyor system will be carried onboard with low impact on Weight & Balance.

- Efficient system inclination for loading & unloading / Storage on existing nets masts
- Money savings by loading time optimization
- Lower maintenance: Proven reliability
- Low impact on Weight & Balance (less than 10 Kg)



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	YES
ATR 72	ALL	New Avionics Suite	N/A	New Look	YES
				Armonia	YES

BENEFITS

- Improved working conditions for ground handling staff
- Loading time optimization
- Lower maintenance costs (preventing damages in cargo area)

OPERATIONAL COSTS SAVINGS	MAINTENANCE COSTS SAVINGS	OPERATIONAL BOOST	PASSENGER COMFORT	CREW EFFICIENCY
-	✓	✓	-	✓

PRE-REQUISITE

NONE

SEE ALSO

- Partition protections in cargo areas

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment

Price	From \$ 10,000
Weight	< 10 kg
Lead time	6 weeks
Manpower	2 to 4 hours

CONTACT



Subject to a possible specific adaptation to the relevant MSN.





Cockpit & Avionics

ATR

Cockpit & Avionics

Universal cradle for EFB tablets

DESCRIPTION

USB Cockpit Power and Universal Cradle can be considered individually or as a package.

Universal Cradle for EFB Tablets - The move towards the Electronic Flight Bag (EFB) has driven the demand for safe, secure mounting options for iPads and other tablet devices in the working cockpit area for both Captain and First Officer. This solution installs a flexible, versatile, fixed cockpit mounting solution for EFB Class III.

USB Cockpit Power - Installation of dual USB outlets (15w or 60w) in the cockpit (Captain and F/O). These dual USB ports (A and/or C) can be used to charge portable electronic devices (PEDs) i.e. iPads or other equivalent tablet devices being used for Electronic Flight Bag (EFB).



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	YES	Original	N/A
ATR 72	ALL	New Avionics Suite	YES	New Look	N/A
				Armonia	N/A

BENEFITS

- Large range of tablet compatibility
- Easy to use last models of tablet without aircraft modification



OPERATIONAL COSTS SAVINGS

-



MAINTENANCE COSTS SAVINGS

-



OPERATIONAL BOOST

-



PASSENGER COMFORT

-



CREW EFFICIENCY



PRE-REQUISITE

NONE

SEE ALSO

- EFB Class II – iPad capability

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment



Price

On quote



Weight

< 3 Kg for EFB mount
< 1 Kg for Cockpit USB power



Lead time

From 3 weeks



Manpower

From 5 to 16 hours
(depending configuration)

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cockpit & Avionics

LPV approach capability (Rockwell XPDR)

DESCRIPTION

LPV (B-RNAV + vertical guidance function) aims at providing precision approach (ILS look-alike) guidance along the Final Approach Segment, it's a Landing support using GPS signal. In Europe, many airports are decommissioning the ILS ground installation. The LPV is also an operational benefit when airport is not equipped with the ILS system (outside of Europe for example). The LPV function replaces the ILS Cat1 (200 feet = 61m) -> SBAS.

The system is composed of:

- 2 CMA-5024 GPS Landing System Sensor Units (GLSSU) installed in the 85VU avionics shelf.
- 2 CMA-5025 Satellite Landing System Control Panels (SLS CP) fitted on the cockpit pedestal.
- 2 Digital / Analogic converters.
- 2 GPS active antennas installed on the top of the fuselage.
- 2 switches to select ILS or SLS signals (fitted on glareshield panel 11VU),
- 2 annunciators to display the GLSSU status (SLS Fault, fitted on glareshield panel).
- 2 connectors to perform the update of SLS databases (installed on the 85VU).



SLS control panels



SLS Switches and Annunciators

APPLICABILITY For information only. Applicability of the modification to each MSN is subject to validation.

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	YES	Original	N/A
ATR 72	ALL	New Avionics Suite	NO	New Look	N/A
				Armonia	N/A

BENEFITS

- Operational benefit when airports are not equipped with ILS system
- Answer to potential new regional mandatory requirement

OPERATIONAL COSTS SAVINGS	MAINTENANCE COSTS SAVINGS	OPERATIONAL BOOST	PASSENGER COMFORT	CREW EFFICIENCY
✓	-	✓	-	-

PRE-REQUISITE

NONE

SEE ALSO

- Solution for New Avionics Suite is available

PACKAGE CONTENT

- STC Package (SB / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment

Price	From \$ 225,000
Weight	+ 17 Kg
Lead time	6 months
Manpower	350 hours

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cockpit & Avionics

LPV approach capability (ACSS XPDR)

DESCRIPTION

LPV (B-RNAV + vertical guidance function) aims at providing precision approach (ILS look-alike) guidance along the Final Approach Segment, it's a Landing support using GPS signal. In Europe, many airports are decommissioning the ILS ground installation. The LPV is also an operational benefit when airport is not equipped with the ILS system (outside of Europe for example). The LPV function replaces the ILS Cat1 (200 feet = 61m) -> SBAS.

The system, compatible with ATR ADS-B OUT solution, is composed of:

- 2 CMA-5024 GPS Landing System Sensor Units (GLSSU) installed in the 85VU avionics shelf.
- 2 CMA-5025 Satellite Landing System Control Panels (SLS CP) fitted on the cockpit pedestal.
- 2 Digital / Analogic converters.
- 2 GPS active antennas installed on the top of the fuselage.
- 2 switches to select ILS or SLS signals (fitted on glareshield panel 11VU),
- 2 annunciators to display the GLSSU status (SLS Fault, fitted on glareshield panel).
- 2 connectors to perform the update of SLS databases (installed on the 85VU).



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	YES	Original	N/A
ATR 72	ALL	New Avionics Suite	NO	New Look	N/A
				Armonia	N/A

BENEFITS

- Operational benefit when airports are not equipped with ILS system
- Answer to potential new regional mandatory requirement

OPERATIONAL COSTS SAVINGS	MAINTENANCE COSTS SAVINGS	OPERATIONAL BOOST	PASSENGER COMFORT	CREW EFFICIENCY
✓	-	✓	-	-

PRE-REQUISITE

ADS-B Out DO260B ATR Solution

SEE ALSO

- Solution for New Avionics Suite is available
- ADS-B Out DO260B for Legacy Series

PACKAGE CONTENT

- STC Package (SB / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment

Price	From \$ 170,000
Weight	+ 17 Kg
Lead time	6 months
Manpower	350 hours

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Cockpit & Avionics

Temporary HF for ferry flights of pre-NAS aircraft

DESCRIPTION

Aircraft with no need for HF system during daily operations can require to have a temporary HF system installed during ferry flights for transition or maintenance purpose.

This solution consists in the Installation of a temporary HF system in order to enable ferry flights over desert or oceanic areas in accordance with current ETOPS regulation.

This modification installs a customized HF-9000D system. The equipment are installed on the existing provisions and plugged together using wire harness already terminated.

The pre-requisite for this solution is the HF2 Antenna already installed. Standard lease period is for 21 days.



Modification developed and supported by our DOA partner PMV Engineering



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	YES	Original	N/A
ATR 72	ALL	New Avionics Suite	NO	New Look	N/A
				Armonia	N/A

STC

BENEFITS

- Easy and quick installation / removal
- Easy set-up
- Answer to ETOPS regulation



OPERATIONAL COSTS SAVINGS



MAINTENANCE COSTS SAVINGS



OPERATIONAL BOOST



PASSENGER COMFORT



CREW EFFICIENCY

-	-	-	-	✓
---	---	---	---	---

PRE-REQUISITE

HF2 Antenna installed

SEE ALSO

- Single COLLINS HF 9000 installation

PACKAGE CONTENT

- STC Package (SB / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment

Price	From \$ 17,000
Weight	N/A (temporary installation)
Lead time	4 weeks
Manpower	7 hours installation (7h removal)

CONTACT



Material Operations

spares.project@atr-aircraft.com

+33 (0) 5 62 21 90 34

Subject to a possible specific adaptation to the relevant MSN.



Cockpit & Avionics

Satcom cockpit connectivity

DESCRIPTION

SATCOM refers to the voice and data service that allows an aircraft to communicate, via satellite, with air traffic control and its airline operations centre when outside coverage of conventional ground radar and Very High Frequency (VHF) stations.

This solution consists in installing a Satcom antenna to bring connectivity to the cockpit. The Cobham AVIATOR 200S System is an Inmarsat aeronautical SATCOM system, which provides Inmarsat Swift Broadband Services and cockpit IP data on a single SB channel serving segregated ACD and AISD aircraft network domains. The basic services include:

- 2 x cockpit voice
- ACARS (compatible with ATR ACARS)
- Cockpit IP data (EFB)



APPLICABILITY For information only. Applicability of the modification to each MSN is subject to validation.

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	YES	Original	N/A
ATR 72	ALL	New Avionics Suite	YES	New Look	N/A
				Armonia	N/A

BENEFITS

- Operational benefit when airports are not equipped with ILS system
- Answer to potential new regional mandatory requirement

OPERATIONAL COSTS SAVINGS	MAINTENANCE COSTS SAVINGS	OPERATIONAL BOOST	PASSENGER COMFORT	CREW EFFICIENCY
✓	-	✓	-	-

PRE-REQUISITE

ADS-B Out DO260B ATR Solution

SEE ALSO

- [ATR Service Bulletin for ACARS installation](#)

PACKAGE CONTENT

- STC Package (SB / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment

Price	On quote
Weight	+ 10 Kg
Lead time	4 months
Manpower	60 hours

CONTACT



Subject to a possible specific adaptation to the relevant MSN.





 **Liveries**

ATR

Liveries

Technical markings

DESCRIPTION

Install or replace technical markings on aircraft.
The markings are available in various languages.



APPLICABILITY For information only. Applicability of the modification to each MSN is subject to validation.

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	N/A
ATR 72	ALL	New Avionics Suite	N/A	New Look	N/A
				Armonia	N/A

ATA 11

PLACARDS & MARKINGS

BENEFITS

- Improve technical visibility in order to decrease maintenance workloads
- Compliance to local authorities regulations
- Aircraft transition



OPERATIONAL COSTS SAVINGS

-



MAINTENANCE COSTS SAVINGS

-



OPERATIONAL BOOST



PASSENGER COMFORT

-



CREW EFFICIENCY

-

PRE-REQUISITE

NONE

SEE ALSO

- White & customized liveries

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment



Price

On quote



Weight

Depending on configuration



Lead time

Depending on configuration



Manpower

Depending on configuration

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Liveries

White & customized liveries

DESCRIPTION

Provide liveries to aircraft such as customized livery, special livery, white livery, decals, etc.



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	N/A	Original	N/A
ATR 72	ALL	New Avionics Suite	N/A	New Look	N/A
				Armonia	N/A

BENEFITS

- Improve airline visibility
- Fleet commonality
- Aircraft transition



OPERATIONAL COSTS SAVINGS

-



MAINTENANCE COSTS SAVINGS

-



OPERATIONAL BOOST



PASSENGER COMFORT

-



CREW EFFICIENCY

-

PRE-REQUISITE

NONE

SEE ALSO

- Technical markings

PACKAGE CONTENT

- Engineering Package (SB / EO / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment



Price

From \$ 3,000



Weight

Depending on configuration



Lead time

Depending on configuration



Manpower

Depending on configuration

CONTACT



Subject to a possible specific adaptation to the relevant MSN.





Pax to freighter

ATR

Pax to freighter

Bulk freighter conversion (BFC Sabena Technics BGC)

DESCRIPTION

This modification converts ATR 42 & 72 series to an E-Class "Full cargo" with verticals nets for bulk operation. 65 converted aircraft all around the world with this solution. The system is composed of:

- Vertical restraint nets and fire-resistant structural liners (wall and ceiling)
- E-Class conversion (smoke detectors and shut-off valves installation)
- Reinforced cargo floor panels
- Fluorescent or LED lights
- Cargo air distribution outlets
- Placards and marking
- Lightweight aluminum windows



ATR42



5.6 tons 54 m³

ATR72



7.9 to 8.7 tons (*) 75 m³

(*) Depending on ATR series & weight variant

APPLICABILITY For information only. Applicability of the modification to each MSN is subject to validation.

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	YES	Original	YES
ATR 72	ALL	New Avionics Suite	YES	New Look	YES
				Armonia	YES

BENEFITS

- Maximum use of cargo volume with wall to wall and floor to ceiling loading possible
- Transversal nets speed up both load and unload process



OPERATIONAL COSTS SAVINGS

-



MAINTENANCE COSTS SAVINGS

-



OPERATIONAL BOOST



PASSENGER COMFORT

-



CREW EFFICIENCY

-

PRE-REQUISITE

NONE

SEE ALSO

- Floor to floor nets with ATR Class E

PACKAGE CONTENT

- STC Package (SB / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment

Price	From \$ 285,000
Weight	Depending on configuration
Lead time	3 weeks
Manpower	From 1,400 to 1,800 hours

CONTACT

sabena
technics

Subject to a possible specific adaptation to the relevant MSN.

ATR



Pax to freighter

Bulk freighter conversion (BFC IPR)

DESCRIPTION

This IPR Conversions (Switzerland) Ltd modification converts ATR42 & ATR72 series to an E-Class "Full cargo" interior with adjustable vertical nets for bulk freight allowing loading & net positioning flexibility. The system is composed of:

- Vertical restraint nets and fire-resistant structural liners (wall and ceiling)
- Class E conversion (1-minute smoke detection system and shut-off valves installation)
- Reinforced cargo floor panels weight option up to 600 kg/m² (standard 400 kg/m²)
- Removal of entire passenger interior for best-in-class weight saving and operational gains
- LED lights option
- Cargo air distribution outlets
- Aluminium windows plugs part of the original STC (Option)



MAX PAYLOAD	ATR 42	from 5.613 to 6.473 kg (from 12.374 to 14.270 lb)
	ATR 72	from 8.423 to 8.723 kg (from 18.569 to 19.230 lb)
GROSS VOLUME	ATR 42	56 m ³ (1.978 cu.ft)
	ATR 72	75,5 m ³ (2.666 cu.ft)

APPLICABILITY For information only. Applicability of the modification to each MSN is subject to validation.

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	YES	Original	YES
ATR 72	ALL	New Avionics Suite	YES	New Look	YES
				Armonia	YES

BENEFITS

- Maximum use of cargo volume with wall to wall and floor to ceiling loading possible
- Transversal nets speed up both load and unload process



OPERATIONAL COSTS SAVINGS

-



MAINTENANCE COSTS SAVINGS

-



OPERATIONAL BOOST



PASSENGER COMFORT

-



CREW EFFICIENCY

-

PRE-REQUISITE

NONE

SEE ALSO

- Large cargo door

PACKAGE CONTENT

- STC Package (SB / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment



Price

From \$ 250,000



Weight

Depending on configuration



Lead time

3 weeks



Manpower

Approx. 3,300 hours (5-6 weeks)

CONTACT



Subject to a possible specific adaptation to the relevant MSN.



Pax to freighter

Floor to floor nets with ATR Class E

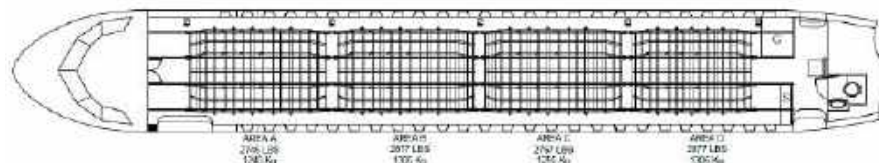
DESCRIPTION

Floor to floor nets installed on aircraft equipped with Class E after removal of passenger seats, forward partitions and door between cabin and cargo area.

The Service Bulletin also covers floor to floor nets removal, and the re-installation of removed parts and equipment, in order to come back to a commercial cabin enabling the transport of passengers.

The system is composed of:

- Floor to Floor nets (3 nets for ATR42 & 4 nets for ATR72)
- Nets to floor fasteners and placards



ATR 72

PAYLOAD : up to 5,5 tons

ATR 42

PAYLOAD : up to 3,8 tons



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	YES	Original	YES
ATR 72	ALL	New Avionics Suite	YES	New Look	YES
				Armonia	YES

BENEFITS

- Maximum use of cargo volume with wall to wall and floor to ceiling loading possible
- Transversal nets speed up both load and unload process



OPERATIONAL
COSTS SAVINGS

-



MAINTENANCE
COSTS SAVINGS

-



OPERATIONAL
BOOST



PASSENGER
COMFORT

-



CREW
EFFICIENCY

-

PRE-REQUISITE

ATR Service Bulletins for cargo floor reinforcement and Class E capability.

SEE ALSO

- Bulk freighter conversion (BFC Sabena Technics BGC)
- Versatile Cargo/Pax configuration (ATR Class E)

PACKAGE CONTENT

- STC Package (SB / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Manual supplements
- Equipment

Price	From \$ 42,000
Weight	Depending on configuration
Lead time	10 weeks
Manpower	From 16 to 20 hours

CONTACT



Subject to a possible specific adaptation to the relevant MSN.

ATR



Pax to freighter

Double seat bags

DESCRIPTION

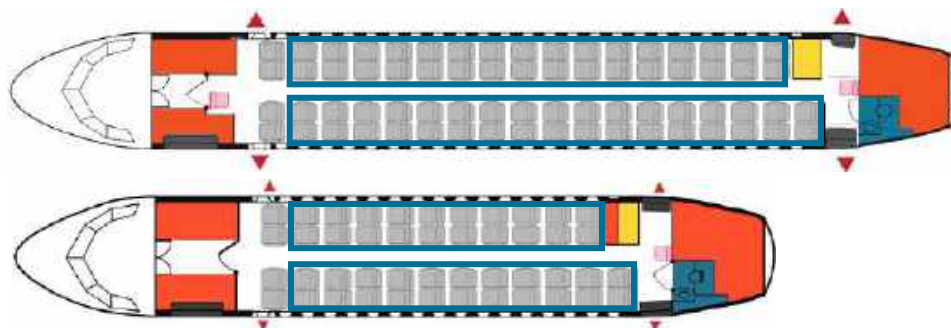
Installation of double seat bags on passenger seats. Can be easily installed within just few minutes. Typical installation:

- 33 seat bags on ATR 72*
- 21 seat bags on ATR 42*

Since the EASA has revised its deviation for the transport of cargo in passenger cabins this modification is pending local Authority Approval.



Cabin Crew required



* additional configurations can be studied



ATR 72
PAYLOAD : up to 7,4 tons

ATR 42
PAYLOAD : up to 5,3 tons

APPLICABILITY For information only. Applicability of the modification to each MSN is subject to validation.

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	YES	Original	YES
ATR 72	ALL	New Avionics Suite	YES	New Look	YES
				Armonia	YES

BENEFITS

- Easy and quick solution for cargo transportation in passenger compartment without seats removal.
- No Class E needed



OPERATIONAL COSTS SAVINGS

-



MAINTENANCE COSTS SAVINGS

-



OPERATIONAL BOOST



PASSENGER COMFORT

-



CREW EFFICIENCY

-

PRE-REQUISITE

NONE

SEE ALSO

- Floor to floor nets with ATR Class E

PACKAGE CONTENT

- STC Package (SB / Installation drawings)
- Instructions for continued airworthiness
- Seat bags kits
- Manual supplements

Price	From \$ 40,000
Weight	Depending on configuration
Lead time	4 weeks
Manpower	2 to 3 hours

CONTACT

sabena
technics

Subject to a possible specific adaptation to the relevant MSN.

ATR



Pax to freighter

Large cargo door

DESCRIPTION

This IPR Conversions (Switzerland) Ltd modification provides ATR operators and lessors with ATR42 and ATR72 pax-to-LCD freighter conversions. The conversion features a Large Cargo Door operated by an independent hydraulic system that will allow to load large or oversized single pieces such as LD3 containers or palletised or loose load freight. The wide cross section combined with the LCD makes the ATR the ideal commuter for cargo operators, for an integrated solution in the 5-9 tons market. Optional installation of the Ankra Cargo Loading System allowing palletised solutions with interlining capabilities. Key attributes are:

- 272% larger door opening compared to standard door with 110° door opening with a 1,05 m sill height (41") and hydraulically actuated door
- 9G forward net cargo barrier: hold safety system
- Integrated auxiliary door to allow crew access on loaded aircraft
- Class E conversion (1-minute smoke detection system and shut-off valves installation)
- Reinforced cargo floor panels weight option up to 600 kg/m² (standard 400 kg/m²)
- Removal of entire passenger interior including lavatory/wiring bundles/air condition ducts for weight saving operational gains
- Aluminium windows plugs proposed as an option



APPLICABILITY *For information only. Applicability of the modification to each MSN is subject to validation.*

AIRCRAFT MODELS		AVIONICS		CABIN	
ATR 42	ALL	Legacy	YES	Original	YES
ATR 72	ALL	New Avionics Suite	YES	New Look	YES
				Armonia	YES

BENEFITS

- Max cabin volume with wall to wall and floor to ceiling loading possible
- Includes all the benefits of the BFC structural tube
- Operating Empty Weight reduced to around 13.000 kg



OPERATIONAL
COSTS SAVINGS

-



MAINTENANCE
COSTS SAVINGS

-



OPERATIONAL
BOOST



PASSENGER
COMFORT

-



CREW
EFFICIENCY

-

PRE-REQUISITE

NONE

SEE ALSO

- Bulk freighter conversion (BFC IPR)
- Versatile Cargo/Pax configuration (ATR Class E)

PACKAGE CONTENT

- STC Package (SB / Installation drawings)
- Instructions for continued airworthiness
- Installation kit
- Operational manuals update
- Parts list

Price	\$ 1,750,000
Weight	Depending on configuration
Lead time	3 weeks
Manpower	Approx. 12.000 hours (~4/5 months)

CONTACT



Subject to a possible specific adaptation to the relevant MSN.

ATR





© ATR. All rights reserved. Confidential and proprietary document.

This document shall not be reproduced or disclosed to a third party without the written consent of ATR. This document and its content shall not be used for any purpose other than that for which it is supplied. ATR, its logo, the distinctive ATR aircraft profiles and patented information relating to the ATR aircraft are the exclusive property of ATR and are subject to copyright. This document and all information contained herein are the sole property of ATR. No intellectual property right is granted through, or induced by, the delivery of this document or the disclosure of its content. The statements made herein do not constitute an offer or a representation. They are based on the mentioned assumptions and are expressed in good faith.