



silver atena
A MEMBER OF ASSYSTEM

RETROFIT ENGINEERING AND CERTIFICATION SERVICES

FROM MINOR LAYOUT MODIFICATIONS UP TO COMPLETE UPGRADES



50 YEARS
ENGINEERING
EXPERIENCE

20 YEARS
EXPERIENCE IN
AIRCRAFT DEVELOPMENT
AND MODIFICATION
FOR AIRLINES
AND OEMS

RETROFIT
AVIONICS
CABIN INTERIOR
SYSTEMS ENGINEERING &
INTEGRATION

APPROVED
21J DESIGN
21G PARTS
CAMO
EN 9100
EN ISO 9001

DESCRIPTION

As a nominated engineering partner of many OEMs, MROs and aircraft operators, Assystem and SILVER ATENA offers the complete service including; industrial design, specification, system design, construction and calculation, qualification, documentation, integration and approval. The profound experience of more than 500 engineers & technicians in mechanical and electronic engineering for systems, structure and cabin interior allow us to offer the whole engineering and certification services for demanding aircraft retrofit programs to airlines and OEMs. The offered services range from minor seat layout modifications up to complete upgrades, taking into account all relevant certification requirements.

MANAGEMENT APPROACH

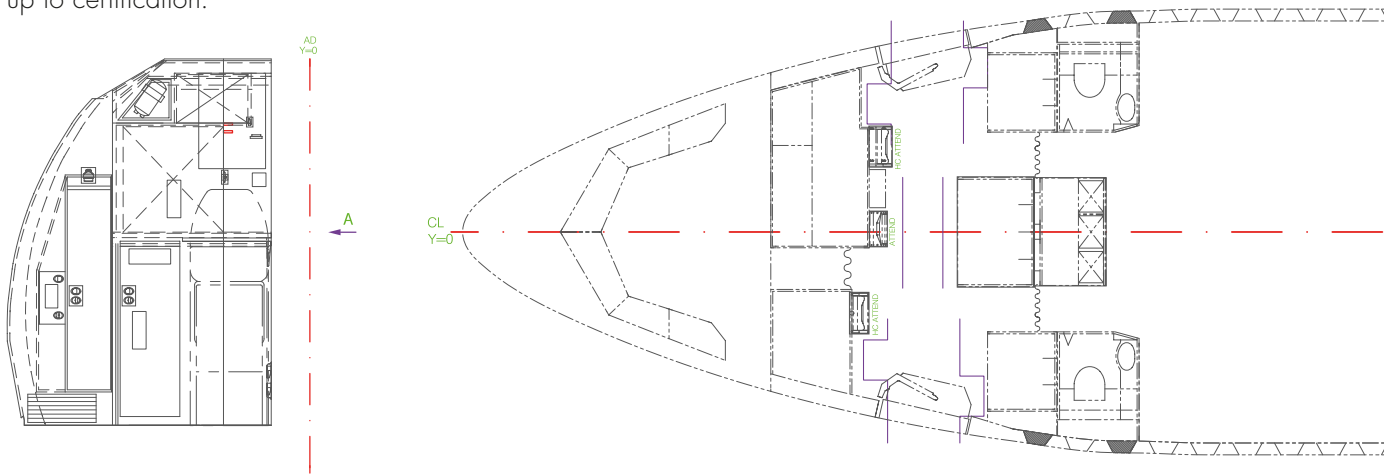
An efficient management of retrofit programs is the key to achieve minimized lead times. Depending on customer requirements Assystem and SILVER ATENA offers either the complete management of all involved parties such as manufacturers, suppliers, airline operators and certification organization or engineering services only.

KEY FEATURES

- Experienced with state-of-the-art aircraft technologies
- Accountable for partial or total retrofit programs - one customized project team based on customer demand
- Aircraft modification, integration and certification of innovative equipment, technologies and systems for VIP, business and commercial aircraft
- Complete engineering and upgrade certification services in cooperation with certification partner (EASA Part 21, EASA Part 145)
- Accountable for partial or total retrofit programs - one customized project team based on customer demand
- Aircraft modification, integration and certification of innovative equipment, technologies and systems for VIP, business and commercial aircraft
- Complete engineering and upgrade certification services in cooperation with certification partner (EASA Part 21, EASA Part 145)

CABIN INTERIOR AND SYSTEMS ENGINEERING

Assystem and SILVER ATENA offers the complete service. From minor layout modifications up to complete upgrades for cabin and cockpit. From specification to integration of interior components including related systems, avionics, connectivity & IFE up to certification.



SERVICE PORTFOLIO

- Definition of Scope of Work (SoW)
- Change Concepts, Installation Studies
- Feasibility Studies & Consultancy under Consideration
- of Airworthiness Requirements
- Interface Definition & Management
- Rapid Decompression Analysis
- Electrical Load Analysis (ELA)
- Safety Assessments
- Cabin Configuration (CMS/CAM)
- Vendor- & Supplier Management and Monitoring
- Ground- & Flight Test Definition and Evaluation
- EMI & T-PED Test Definition
- Integration
- Airworthiness documentation

ADDITIONAL CERTIFICATION SERVICES

- Change Management and Monitoring
- On-site Engineering Installation Support
- Non Conformity Management

PROJECT REFERENCES

- Pilatus PC12E Next Generation Cockpit conversion
- B767-400 VIP Cabin Completion
- A330-200/300 Cabin Modification incl. STC
- A320 P2F Conversion
- A340-600 Cabin Retrofit
- A310 MRTT Avionics Modification and Integration
- A319-100 Cabin Refurbishment
- A380 Connectivity and SatCom Installation



CONTACT:

Tel.: +49 40 743 – 83 107
Fax.: +49 40 743 – 52 461
info@silver-atenade