

PROAVIA

French AIRPORT & ATC technology

Catalog 2016/2017



This year,
PROAVIA celebrates
its 40th anniversary.





Welcome to **PROAVIA** New electronic catalogue

An outlook of products, services and contact details for all our member companies

PROAVIA is the French trade association of airport equipment manufacturers and consultants – is registered as a not-for-profit organisation under French law.

It was created in 1976 as a joint initiative of the French Civil Aviation Authority's Technical Service and French industry.

PROAVIA is an information short cut provider for anyone seeking to source a supplier of goods, services or expertise for **airport terminals, ATC or ramp equipment and maintenance in France**.

It currently has 62 member companies listed and is managed by an elected board under the umbrella of the French Civil Aviation Authority.

OBJECTIVES

- ▶ To promote French airport, ATC and ground handling products and services to foreign decision-makers.
- ▶ To arrange your meeting with French partners, French Civil Aviation or French airports.
- ▶ To organize trade missions abroad.
- ▶ To assist you to source in France the equipment and services which meet your specific requirements.
- ▶ To inform its member companies about business opportunities abroad.



AREAS OF EXPERTISE

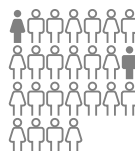
Consultancy,
operation, training

Airport terminal
and ICT

Airfield and
air safety

Ramp, fuel and
maintenance

KEY FIGURES



TOTAL WORKFORCE

500 000
employees



TOTAL TURN OVER

100 billion euros



2015
PASSENGER TRAFFIC
IN FRENCH AIRPORTS

181 M pax

PROAVIA

your shortcut in France
to Airport, Air Traffic Control
and Ground Handling suppliers.

Latest french references...




Latest news about our members also available on

www.proavia.com

For further information, please do not hesitate to contact us,
we will be delighted to help you:

50 rue Henry Farman
75015 PARIS - FRANCE
Fax: +33 (0)1 58 09 35 54

 Marie Carru, General Delegate
Email: marie.carru@proavia.com
Tel.: +33 (0)1 58 09 35 97 / 90



PROAVIA MEMBER'S

→ ADB SAFEGATE	→ EJ
→ ADPi	→ EKIU GROUP
→ AÉROPORT DE LYON MANAGEMENT & SERVICES	→ ENGIE COFELY
→ ALFYMA	→ ENGIE INEO
→ ALPHA AIRPORT	→ ENVISA
→ ALPHACIM / FB TECHNOLOGY	→ FESI FAYAT
→ ALSTEF AUTOMATION SA	→ GORGY TIMING SAS
→ AUGIER	→ GUINAULT LEBRUN
→ AUTOMATIQUE & INDUSTRIE (AI)	→ HUB ONE
→ BODET	→ HUB PERFORMANCE
→ BOUYGUES BATIMENT INTERNATIONAL	→ IER
→ BOUYGUES ENERGIES & SERVICES	→ LOGYx
→ BUREAU VERITAS	→ MATREX
→ CADDIE	→ NAMA - AÉROPORTS DE LA CÔTE D'AZUR
→ CAMAS FORMATION	→ NEXANS
→ CC-CONSULTING	→ REEL
→ CODRA	→ RESA AIRPORT DATA SYSTEMS
→ COHOR	→ IDEMIA
→ C/S FRANCE	→ SETEC INTERNATIONAL
→ DAIFUKU LOGAN	→ SIDES
→ DEF	→ TELERAD
→ DEGREANE HORIZON	→ THALES
→ DIRICKX GROUPE	→ VINCI AIRPORTS
→ DSNÀ SERVICES	→ VISIOM
→ EDGE AIRPORT FRANCE	→ XEROX BUSINESS SOLUTIONS
→ EGIS AVIA	→ ZODIAC AEROTECHNICS

CONSULTANCY, OPERATION, TRAINING

→ **ADP INGENIERIE**

- Airport engineering and architecture
- Planning, consulting, design
- Construction, supervision and project management

→ **AEROPORTS DE LYON MANAGEMENT & SERVICES**

- Airport engineering and consulting
- Airport operations and management
- Custom solutions

→ **BOUYGUES BATIMENT INTERNATIONAL**

- Design and build under PPP financing
- Design and build terminals
- Greenfield airport

→ **BUREAU VERITAS**

- Safety, security training
- Assistance to civil aviation training
- Testing, inspection, certification

→ **CAMAS**

- Airport and aviation training
- Dangerous good training

→ **CC CONSULTING**

- Support and consultancy for airport projects
- Design for global solutions for airport equipment

→ **COHOR**

- Airport coordination
- Slot allocation services
- Consultancy and training

→ **EGIS AVIA**

- Aviation consulting and engineering
- Turnkey solutions for airport and ATC
- Air traffic management

→ **EKIUM GROUP**

- Fuel supply engineering
- Safety, security, electricity engineering

→ **ENVISA**

- Environmental & Aviation Expertise
- Noise, air quality, emissions and greenhouse gas studies
- R&D in aviation and environment

→ **HUB PERFORMANCE**

- Capacity planning forecast
- Airport simulation, baggage, cargo
- Real time prediction

→ **LOGYx**

- Training software for screeners
- Online certification platform

→ **NAMA AEROPORTS DE LA COTE D'AZUR**

- Airport training
- Consultancy and management
- Airport marketing

→ **SETEC INTERNATIONAL**

- Feasibility studies
- Project design, construction supervision
- Project management
- Client assistance and representation

→ **VINCI AIRPORT**

- Integrated airport operator - Investor
- Value generation
- Project finance

AIRPORT TERMINAL AND ITC

- **ALFYMA**
 - Baggage handling solutions,
 - Integration of safety machine.
- **ALPHA AIRPORT**
 - Airport system integrator
 - Airfield lighting system
- **ALPHACIM / FB TECHNOLOGY**
 - Maintenance of airfield lighting systems
 - Airfield lighting monitoring system
- **ALSTEF**
 - Baggage handling systems
 - Baggage drop-off
- **AUTOMATIQUE & INDUSTRIE (AI)**
 - Engineering & system integrator
 - Turnkey solution in automation
 - SCADA systems
- **BODET**
 - Time system solution
 - Time display
 - Clock and time centers
- **BOUYGUES ENERGIES ET SERVICES**
 - Design, build, maintenance of airport infrastructure, equipment
- **CADDIE**
 - Passenger & baggage trolleys
 - Baggage trolleys for retail
- **CODRA**
 - Industrial automation solutions
 - Building management
 - Security hypervision
- **CS FRANCE**
 - Expansion joints covers
 - Solar shading, entrance mats
 - Wall protection, ventilation panels
- **DAIFUKU LOGAN**
 - Baggage handling systems
 - Design, manufacture, integration
- **DEF**
 - Fire detection manufacturer
 - Smoke extraction systems
- **DIRICKX GROUPE**
 - Airport perimeter security
 - Fences, gates, access control
- **EDGE**
 - IT Solutions for airports and airlines
 - Cupps, Local DCS, FIDS
- **ELNO**
 - Public address systems
 - Information systems
- **ENGIE COFELY**
 - Sustainable and energy efficient airports
 - Facility management
 - Baggage management system
- **GORGY TIMING SAS**
 - Master clock system
 - Digital signage and displays
 - Modular time center
- **HUB ONE**
 - Fixed and mobile telecommunications
 - Mobility and traceability solutions
 - Wifi hotspot and data flows
- **IER**
 - Self-service solutions for the passenger
 - Check-in, baggage tagging
 - Border control and boarding
- **MATREX**
 - Baggage handling systems
 - Belt, roller, conveyors
- **RESA**
 - Integrated I.T. systems
 - Check-in, boarding, flight management and display
 - Passengers and baggage tracking
- **SAFRAN I&S**
 - Biometric passenger processing and tracing
 - Border control
 - Explosive detection system
- **SCHNEIDER ELECTRIC**
 - Electrical distribution
 - Energy management specialist
- **STRATIME COMPOSITES SYSTEMES**
 - Design, production and installation of airport furniture
 - Counters, search benches, seats
- **THALES**
 - Airport security systems
 - Airport operation control
- **VINCI ENERGIES**
 - Mechanical electrical and plumbing
 - Airport terminal system
- **VISIONM**
 - Checking, hand luggage control, hold luggage control
 - Services: engineering, training, maintenance, rental
- **XEROX BUSINESS SOLUTIONS**
 - Car park management systems
 - Equipment, installation, maintenance

AIRFIELD AND AIR SAFETY

→ **ADB SAFEGATE**

- Airfield lighting solutions
- Air traffic management analysis
- AVGDS

→ **ALPHA AIRPORT**

- Airport system integrator
- Air terminal turnkey projects

→ **ALPHACIM / FB TECHNOLOGY**

- Airfield lighting monitoring system
- Maintenance of airfield lighting systems

→ **AUGIER**

- Airfields lighting solutions
- Energy transport solutions
- Energy savings and energy management solutions

→ **AUTOMATIQUE & INDUSTRIE (AI)**

- Engineering & system integrator
- Turnkey solution in automation
- SCADA systems

→ **BOUYGUES ENERGIES ET SERVICES**

- Design, build, maintenance of airport infrastructure, equipment, runway, nav aids

→ **CS SYSTEMES D'INFORMATION**

- Communication & security over IP
- Voice recorder over IP
- Voice gateway over IP

→ **DEGREANE HORIZON**

- AWOS
- Wind profiler
- Products & services for meteorological observation

→ **DSNA SERVICES**

- Regulation and safety oversight
- Operation optimization
- Operational ATC training

→ **EJ**

- Manhole covers
- Airport drainage gratings

→ **ENGIE INEO**

- ATC/ATM : VCS, ITWP
- Control tower
- Power, telecom & data networks, safety

→ **FAYAT**

- Turnkey projects
- Engineering, procurement, commissioning

→ **GORGY TIMING SAS**

- Master clock system
- Digital signage and displays
- Modular time center

→ **INNOV'ATM**

- Air traffic management
- Airport resources optimisation

→ **NEXANS**

- Cables
- Energy and communication for terminals and runways

→ **SIDES**

- Firefighting vehicles
- Airport security vehicles

→ **STERELA**

- Bio-acoustic Bird Scarer
- 4 Wheel drive robotic platform

→ **TELERAD**

- Radio communication VHF, UHF
- NDB - Nav aids
- GBAS - Nav aids

→ **THALES**

- Air traffic management solutions
- Radar, Navigation aids, AIS

→ **VINCI ENERGIES**

- Air traffic control systems

→ **ZODIAC AEROTECHNICS**

- Arrestor bed

RAMP, FUEL AND MAINTENANCE

→ **6D SOLUTIONS**

- Runway maintenance
- Coated glass fibre grids
- Asphalt reinforcement

→ **DORLEANS**

- Mobile structure manufacturer in metal and textile

→ **EJ**

- Access control for all networks

→ **GUINAULT**

- Aircraft ground power unit
- Air conditioning, cabin heater
- Mobile air start unit

→ **REEL**

- Special docking systems and access
- Handling & lifting equipment for aircraft assembly
- Maintenance and painting

→ **TDA LEFEBURE**

- 400 Hz Pits
- PCA Pits
- 400 Hz cable retrievers

→ **ZODIAC AEROTECHNICS**

- Hydrant systems
- Hydrant pit, valve and box

► **OUR ACTIVITY
IN A FEW WORDS**

- SINCE 1989, ACOREL HAS BEEN RECOGNIZED AS A GLOBAL LEADER IN PEOPLE FLOW ANALYSIS, QUEUE MANAGEMENT AND AUTOMATIC PEOPLE COUNTING SOLUTIONS.

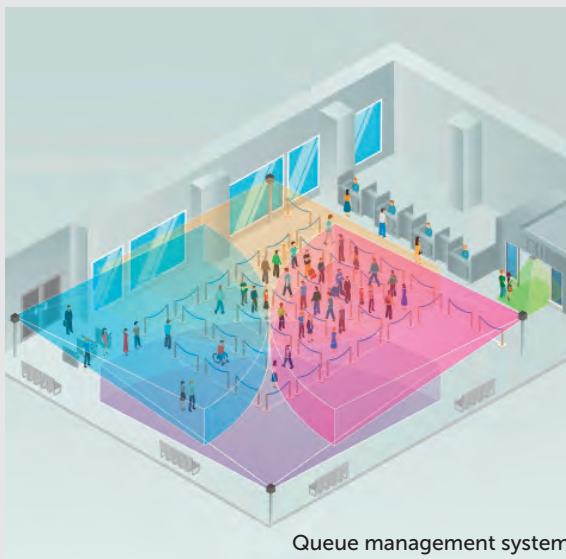
► **PRODUCTS AND SERVICES**

- LidarTech technology
- 3D stereoscopic technology
- Real time passenger information
- Staff management optimization
- Customer experience improvement
- Efficient passenger flow
- Queue management
- Checkout resources allocation
- Sizing toilet infrastructures
- Optimising waiting time
- Organise cleaning and maintenance tasks

► **MAIN REFERENCES**

- ADP Paris Airports
- Heathrow
- Gatwick Airport

► **MORE INFORMATION**




Queue management system



Acorel brochure

► **CONTACT**

ACOREL
3 rue Paul Langevin
07130 Saint Péray
FRANCE

 Bruno AULAGNER
bruno.aulagner@acorel.com
Mob. : +33 (0) 6 73 88 01 50
Fax : +33 (0) 4 75 40 57 71

www.acorel.com

► **OUR ACTIVITY
IN A FEW WORDS**

• **LEADING PROVIDER OF INTELLIGENT SOLUTIONS THAT DELIVER SUPERIOR AIRPORT PERFORMANCE FROM APPROACH TO DEPARTURE.**

► **PRODUCTS AND SERVICES**

Specialist in solutions for the airfield, tower and gate, ADB Safegate's operational view combined with a consultative approach helps airports improve throughput, safety and sustainability in the most efficient way.

1. **Airfield:** Widest LED lighting range, power management, Follow the Greens and addressable guidance signs.
2. **Gate:** Automated docking platforms, Apron Management Systems, LED apron floodlighting.
3. **Tower:** ATC solutions for full control over ground movement.
4. **Integration of systems** across airfield, tower and gate, for more predictable movement and better guidance.
5. **Services and maintenance:** Multi-level, multi-channel technical support and services; AGL Design, Audit & survey, project management, training and maintenance.

► **MAIN REFERENCES**

- London Heathrow Airport, Gatwick Airport and Manchester Airport, United Kingdom.
- Charles de Gaulle in Paris, France.
- Beijing Airport, China.
- Changhi Airport, Singapore.
- Hartsfield- Jackson Atlanta International Airport, Chicago O'Hare International Airport, Denver International Airport, Orlando International Airport, USA.
- Frankfurt Airport, Germany.
- Rome Fiumicino Airport, Italy.
- Madrid Barajas, Spain.
- Oslo Gardermoen, Norway.
- New Hamad International Airport, Qatar.
- Dubai Airport, United Arab Emirates.
- Changhi Airport, Singapore.
- OR Tambo Airport, South Africa.
- Suvarnabhumi Airport, Thailand.
- Soekarno-Hatta International Airport, Indonesia.
- Addis Ababa International Airport, Ethiopia.

► **MORE INFORMATION**



<https://vimeo.com/171069528>

► **CONTACT**

ADB SAFEGATE France & Dom Tom
 Paris Nord 2 - 22, avenue des Nations
 BP 55248 Villepinte
 95944 Roissy CDG Cedex - FRANCE
 Tel.: +33 (0)1 49 89 66 30
 Fax: +33 (0)1 49 89 17 81

ADB SAFEGATE Africa
 12 rue Portalis
 75008 Paris - France
 Tel.: +33 (0)1 42 99 60 40
 Fax: +33 (0)1 49 53 62 89

www.adbsafegate.com

► **OUR ACTIVITY
IN A FEW WORDS**

- 360° AIRPORT CONSULTING.
- AIRPORT ENGINEERING AND ARCHITECTURE.
- DESIGN, SUPERVISION AND PROJECT MANAGEMENT.

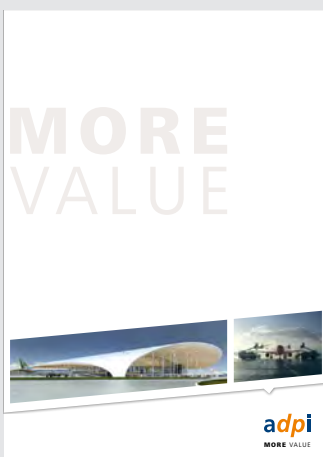
► **PRODUCTS AND SERVICES**

- Airport Master Plan.
- Terminals.
- Maintenance and Cargo.
- Airport ancillary buildings: control towers, maintenance, firemen station.
- Infrastructure Airside and Landside.
- Air navigation and control.
- Special airport systems, IT, BHS...
- Airport cities.
- Multi-flow simulation.
- Sustainable airport.

► **MAIN REFERENCES**

- Airbus Toulouse: A380 final assembly line complex (France).
- Tianfu Chengdu New Airport Terminal Concept Design (China).
- Feasibility and development studies for a new terminal at Clark International Airport (Philippines).
- Design and supervision of Bahrain International Airport expansion (Bahrain).
- Design of new Arturo Merino Benitez international airport of Santiago (Chile).
- Project management for the rehabilitation of the runway at Nairobi JKIA (Kenya).

► **MORE INFORMATION**



Corporate brochure.



Aéroports de Paris Group.



View of the future Tianfu international airport of Chengdu (China).

► **CONTACT**

ADP INGÉNIERIE
Bâtiment 641
Rue de la Fondation
Orly Zone Sud
91 204 Athis-Mons Cedex
FRANCE

Tel.: +33 (0)1 49 75 11 00
Fax: +33 (0)1 49 75 13 91
Email: development@adp-i.com

www.adp-i.com

► **OUR ACTIVITY
IN A FEW WORDS**

- AIRPORT ENGINEERING AND CONSULTING.
- AIRPORT OPERATIONS AND MANAGEMENT.
- CUSTOM SOLUTIONS.

► **PRODUCTS AND SERVICES**

Aéroports de Lyon Management & Services (ADLMS) provides airport-related services in France and abroad. A subsidiary of Aéroports de Lyon, ADLMS offers a wide range expertise and assistance to airport operators and other public and private entities (infrastructure and commercial development, operations & maintenance, environment, financial performance etc.) via :

- On-site professional training in Lyon, at the Client's or in one of partnering universities (e.g. French École Nationale de l'Aviation Civile).
- Studies, audits, consulting.
- Assistance contracts/partnership agreements (Engineering, Project Management Assistance).
- Airport concessions and management contracts (airport operator as part of Public-Private Partnership projects).

► **MAIN REFERENCES**

- **Prishtina airport (Kosovo):** Concession contract for 20 years with expertise for the new terminal construction.
- **Ouagadougou airport (Burkina Faso):** Project Management Assistance for the new airport concession.
- **Brest and Quimper airports:** Preliminary Master Plan Study.
- **Douala airport (Cameroon):** Project Management Assistance for runway rehabilitation and terminal renovation.
- **Brazzaville airport (Congo):** Project Management Assistance for the airport modernization/extension.
- **Ollombo airport (Congo):** Project Management Assistance for airport construction.
- **Cameroon airports:** Assistance agreements with various missions.
- **Bamako airport (Mali):** Assistance agreement for cargo development, environmental management, etc.

► **MORE INFORMATION**



ADLMS brochure



ADLMS references

► **CONTACT**

AÉROPORTS DE LYON
Management & Services
BP 113
69125 Lyon - Saint Exupéry
FRANCE



Roger FORNERIS
Tel.: +33 (0)4 72 22 43 90
Mob.: +33 (0)6 64 33 85 95
Fax: +33 (0)4 72 22 74 71
E-mail: roger.fornieris@lyonaeroports.com

www.lyonaeroports.com

► **OUR ACTIVITY
IN A FEW WORDS**

- DESIGN AND PRODUCTION, TURNKEY SOLUTION OF BAGGAGE HANDLING SYSTEMS, CARGO PLANE/CABINE.
- INTEGRATION OF A SAFETY MACHINE.

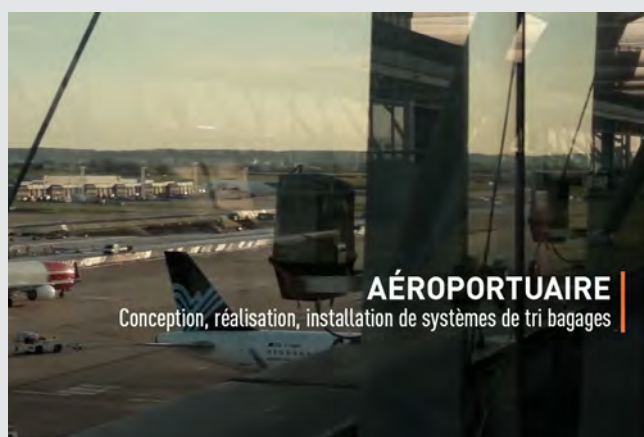
► **PRODUCTS AND SERVICES**

- Check-in counters and conveyors.
- Baggage handling conveyors.
- Integration of RX and EDS machine.
- Curve conveyor.
- Pushers and diverters.
- Anti-intrusion and firestop dampers.
- Carousel (Departure / arrival).
- Roller conveyors.
- Oversize luggages.
- Return tray system.
- Turnkey material handling simulation and analysis projects.
- Integration of new lines.
- Replacement of belts.
- Maintenance of all types conveyors.

► **MAIN REFERENCES**

- Lisbonne Airport Terminal 2: Return trays system.
- Paris Roissy.
- Paris Orly Sud.
- Paris Orly Ouest.
- Toulouse Blagnac.
- Geneva.
- Saint Etienne.
- Noumea.
- Tahiti Faa'a.
- Nice.

► **MORE INFORMATION**



Corporate movie.

► **CONTACT**

ALFYMA
122, rue des Cerisiers
ZAC Ste Apolline
78370 PLAISIR
FRANCE

ALFYMA-AIRPORT
Tel.: +33 (0)1 30 54 23 61
Fax: +33 (0)1 34 81 13 67
E-mail: airport@alfyma.fr

www.alfyma.fr

► **OUR ACTIVITY
IN A FEW WORDS**

- AIRPORT SYSTEM INTEGRATOR.
- COMPLETE TURNKEY PROJECTS SOLUTIONS IN FRANCE AND INTERNATIONAL.

► **PRODUCTS AND SERVICES**

- Mobile and fixed airfield lighting system.
- Design and implementation of air terminal equipment and building.
- Fixed and mobile Control Tower.
- Power production and supply.
- Airport Engineering.

► **MAIN REFERENCES**

- Design and implementation of the new Kinshasa International airport in DR Congo.
- Complete implementation (Airfield lighting system, control tower and power production) of five Ivory Coast airports.
- Supply of twenty-seven light poles for plane park in Algeria.
- Modernisation of five airports in Algeria.
- Marseille La Timone hospital center helipad modernisation.

► **MORE INFORMATION**



► **CONTACT**

ALPHA AIRPORT
14 avenue Jean Bart
78960 Voisins Le Bretonneux
FRANCE

Tel.: 33 (0)1 30 43 25 45
Fax: 33 (0)1 30 43 27 22
E-mail: alpha@alpha-airport.com

www.alpha-airport.com

► OUR ACTIVITY IN A FEW WORDS

- CONCEPTION OF TURNKEY PROJECTS IN NETWORKS, IT AND AUTOMATION.
- MAINTENANCE OF AIRFIELD LIGHTING SYSTEMS.

► PRODUCTS AND SERVICES

- **A-SMGCS** : Remote lighting intelligent management system safe movement of aircraft and ground vehicles.
- **Baggage Handling system** : Sorting, tracking, X-RAY Machine Interfacing.
- **ALPHACAD®** : Tool for automatic generation of application for fire safety; ALPHACAD is a tool that ensures accurate and consistent supervision.
- **SIATC** : Integrated Automatic Control Tower.
- **PAC® & PAC Lab®** : System of mobile photometry and system for workshop allowing the photometric measurements of inset and elevated airfield lighting fittings.
- **PACPI®** : System for high precision alignment and photometry control of the PAPI.
- **DICE®** : Cleaning system for elevated and inset light fittings based on dry-ice technology.

► MAIN REFERENCES

- **Airfield lighting products**
 - Casablanca (Morocco).
 - Madrid (Spain).
 - Lyon Saint Exupéry (France).
 - Paris, Roissy Charles De gaulle (France).
- **Baggage handling automation**
 - Paris, Roissy Charles De gaulle (France).
 - Bordeaux (France).
 - Nice (France).
- **Technical management of the building, fire safety**
 - AREVA.
 - Société Générale.
 - Sanofi.
 - Michelin.
- **Passenger boarding bridges**
 - Oslo (Norway).

► MORE INFORMATION



Innovative system for high precision PAPI Alignment

Mobile Photometry Control System

Airfield Lighting Control System

Workshop Photometry Control System

Building Management Control System


Total solution for Airport Lighting Systems

Parc Guillaume, 8/10 rue du Bois Sauvage, 91000 Evry Cedex FRANCE
Tel. +33 (0)1 69 11 11 11 - Fax. +33 (0)1 69 11 11 12
www.fbtechnology.com - www.alpha-cim-sas.com



► CONTACT

ALPHA-CIM & FB TECHNOLOGY
Par Guillaume
8-10 Rue du Bois Sauvage
91 055 Evry Cedex
FRANCE

 **Lionel LE CAM**
Tel.: +33 (0)1 69 11 11 11
Fax: +33 (0)1 69 11 11 12
E-mail: contact@alpha-cim.com

www.alpha-cim-sas.com

www.fbtechnology.com

► OUR ACTIVITY IN A FEW WORDS

- BAGGAGE HANDLING SYSTEMS.
- DESIGN, MAINTENANCE AND SERVICES.

► PRODUCTS AND SERVICES

ALSTEF designs and realises turnkey systems based on its range of equipment for a high reliability, optimum availability and easy maintenance.

Check-in, sortation and delivery of hold baggage:

- Conveyors BAGVeyor.
- Carrousel BAGClaim.
- Check-ins.
- Early bag storage by BAGShuttle or mini stackercranes.
- Control and management of the BHS by BAGWARE® Sort Allocation Software package.
- Supervision.
- Maintenance and operation: permanent staff on site or timely visits.

► MAIN REFERENCES

- **Moscow (Russia):** Moscow Sheremetyevo Airport.
- **Istanbul (Turkey):** Atatürk Airport - international and domestic terminals.
- **Montréal (Canada):** P.E. Trudeau airport -transborder terminal (US flights).
- **Mauritius:** S.S.R. international airport.
- **Zagreb (Croatia):** international airport - new terminal.
- **Nizhny Novgorod (Russia):** international airport.
- **EuroAirport Basel Mulhouse Friburg** (France / Swiss / Germany).
- **Oujda (Morocco):** international airport.
- **Helsinki (Finland):** Vantaa international airport T1 and T2
- **Abidjan (Ivory Coast):** international airport
- **Dubaï (U.A.E.):** Emirates CrewTerminal.

► MORE INFORMATION



► CONTACT

ALSTEF Automation S.A
104, bld de La Salle
BP 9018 Boigny sur Bionne
45963 Orléans Cedex 9
FRANCE

 Anabelle PELISSE
Sales assistant
Tel.: + 33 (0)2 38 78 42 30
Fax: + 33 (0)2 38 78 42 01
Email: anabelle.pelisse@alstef.com

www.alstef.com

► **OUR ACTIVITY
IN A FEW WORDS**

- AIRFIELD LIGHTING SOLUTIONS.
- ENERGY TRANSPORT SOLUTIONS.
- ENERGY SAVINGS AND ENERGY MANAGEMENT SOLUTIONS.

► **PRODUCTS AND SERVICES**

Solutions for airfield lighting

- Approach and runways.
- Taxiways and Apron.
- Auxillary equipments.

**Solutions for energy transport in 950V - 6600V,
1-20 km**

- Airplane and car park lighting.
- Access road lighting.
- Powering ILS and cameras.

Energy saving solutions for lighting. Products

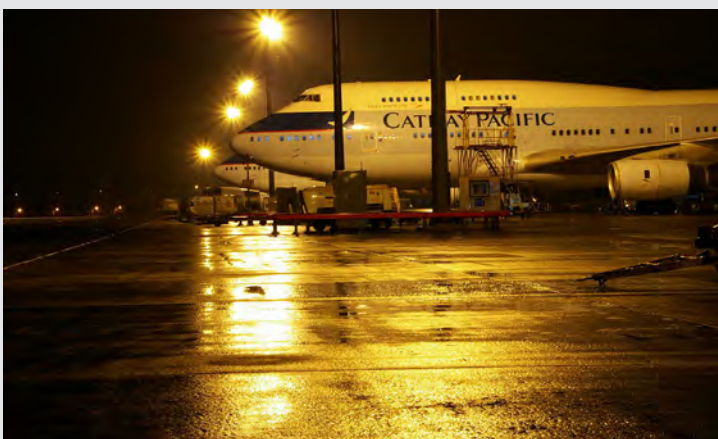
- Lights and constant current regulators.
- Distribution transformers, switchgears, step-up and step-down sub stations and water-tight transformers for harsh environments.
- Voltage variators.

► **MAIN REFERENCES**

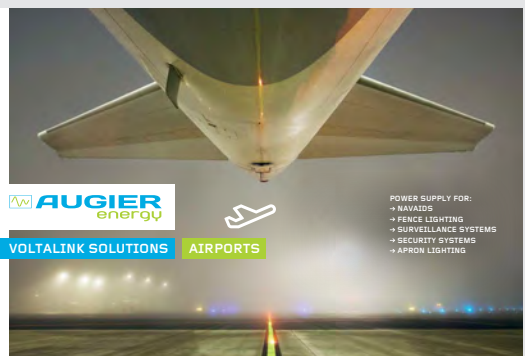
More than 300 airports in more than 40 countries worldwide.

- **FRANCE:** 80+ airports: Paris Airport, Nice, Toulouse, Bordeaux, Air Bases.
- **ASIA:** Hong Kong Airport, Guangzhou Airport, Indonesia, Brunei, Malaysia.
- **MIDDLE EAST:** Fujairah Airport, Iran, Turkey, Air Bases.
- **AUSTRALIA:** Sydney, Canberra, Air Bases.
- **AFRICA:** Military Bases, Ivory Coast, Nigeria, Algeria, Tunisia Morocco, Senegal, ASECNA International Airports.

► **MORE INFORMATION**



Augier Voltalink



Augier Voltalink solutions

► **CONTACT**

AUGIER S.A.S
Zone Industrielle, N° 2243,
1^{ère} Avenue
06513 Carros
FRANCE

👤 **Pierre GIRIN**

Energy sales manager

Email: pierre.girin@augier.com

👤 **Thierry BOULET**

- Airfield sales manager

Email: thierry.boulet@augier.com

Tel.: +33 (0)4 92 08 62 00 - Fax: +33 (0)4 93 29 01 40

www.augier.com

**► OUR ACTIVITY
IN A FEW WORDS**

- AI ACTS AS ENGINEERING AND SYSTEM INTEGRATOR WITH TURNKEY SOLUTIONS IN ANY AUTOMATION AND SCADA SYSTEMS.

► PRODUCTS AND SERVICES**AIRSIDE**

- Control and supervision of Airfield Lighting Systems.
- Control and supervision of Energies supplies.
- Supervision of Air Traffic Control and Navaid equipment.
- Hydrant system, 400 Hz.
- Other fluids (water...).
- Security...

TERMINAL

- Baggage Handling.
- Power Supplies.
- Building Management System.
- LV/MV Energies.
- Saving and management of energy consumption.
- Lighting, Opening.
- Hypervision.

► MAIN REFERENCES**25 years experience, more than 150 references**

- Jeddah airport (Saudi Arabia).
- Paris Le Bourget airport (ADP).
- Reggane military base (Algeria).
- Manila airport (Philippines).
- Fort de France airport (Martinique).
- Montevideo airport (Uruguay).
- Abidjan airport.
- Djibouti airport.
- Libreville airport (Gabon).
- Najran, Madain Saley, Riyad... (Saudi Arabia).
- Aleppo (Syria).
- Baku military base (Azerbaijan).
- Tehran airport (Iran).
- Bordeaux International airport (France).
- Bamako (Mali).
- Melbourne (Australia)...


► MORE INFORMATION

Screenshot energy efficiency.

► CONTACT

AUTOMATIQUE & INDUSTRIE
145 rue Louis Barran
38430 Saint-Jean-de-Moirans
FRANCE

 **Frederic LOPEZ**
frederic.lopez@aifrance.com

 **Eva PERALDO**
eva.peraldo@aifrance.com

Tel.: +33 (0)4 76 93 79 90 - Fax: +33 (0)4 76 93 79 91

www.aifrance.com

► **OUR ACTIVITY
IN A FEW WORDS**

- **FOUNDED IN 1869, THE BODET GROUP DEVELOPS TIME SYSTEM SOLUTIONS FOR AIRPORTS, RAILWAYS AND UNDERGROUND.**

► **PRODUCTS AND SERVICES**

Bodet designs and manufactures high-precision time system and time display especially developed for airports:

TIME SERVER

Time server combine time-base precision and an approach centred on the secure network, with a compact modular design guaranteeing a powerful and accurate time reference system:

- **Multiple synchronisation** by order of priority via GPS, GLONASS, BEIDO, etc.
- **Modular product** with a wide variety of input / output signals (NTP, IRIG, PPS, PTP).
- **Configuration & Management** via a built-in web server.

TIME DISPLAY

- **Digital clocks:** LED or LCD, multiple time zones.
- **Analogue clocks:** for indoor and outdoor use, with diameters ranging from 30 to 60cm.

TIME DISPLAY SYNCHRONISATION

Use of standard communication protocol such as DHF, AFNOR, NTP, IRIG.

► **MAIN REFERENCES**

- Algeria: Alger, Tlemcen.
- Belgium: Brussels.
- Bulgaria: Sofia.
- Cyprus: Larnaka.
- Egypt: Cairo, Hurgada.
- France: Roissy Charles de Gaulle, Orly.
- Hungary: Budapest.
- Indonesia: Jakarta.
- Malaysia: Kota Kinabalu.
- New Zealand: Auckland, Wellington.
- Poland: Warsaw.
- Portugal: Faro, Lisbon.
- Spain: Madrid Barajas, Palma de Mallorca.
- Tunisia: Enfidha.
- Turkey: Ankara, Antalya, Izmir.
- Thailand: Bangkok International.

► **MORE INFORMATION**



Madrid airport



Budapest airport

► **CONTACT**

BODET
PO BOX 30 001
49340 Trémentines
FRANCE

 **Marc-André CHALMANDRIER**
Chargé d'affaires & prescriber
Tel.: + 33 (0)2 41 71 72 00
Email: marc-andre.chalmandrier@bodet.com
Email: export@bodet.com

www.bodet-time.com



BOUYGUES BÂTIMENT INTERNATIONAL

► OUR ACTIVITY IN A FEW WORDS

- DESIGN AND BUILD OF NEW AIRPORT FACILITIES UNDER PPP FINANCING.
- NEW INTERNATIONAL PASSENGER TERMINALS.
- GREENFIELD AIRPORTS.

► PRODUCTS AND SERVICES

FINANCING

- Structuring of PPP financing : PFI/DBFM, Concession/DBFMO.
- Debt, equity, wide experience with international institutional funds.

DESIGN

- Optimization of airport design, improving operating costs.
- Integration of environmentally sustainable innovation.

BUILD

- Turnkey delivery of global airport projects under fixed-price, date-certain design & build contract.

OPERATION-MAINTENANCE

- Airport operations under PPP agreements – Facilities management.

LANDSIDE DEVELOPMENT

- Hotel, Exhibition & Conference Centres, Freight & Logistics, Shopping Gallery.

► MAIN REFERENCES

- ZAGREB AIRPORT PPP – Croatia - a 30-year Concession - Design & Build, Finance, Maintain & Operate (DBFMO) of a 8Mpax international terminal. - A 245 M€ Capex Investment.
- IQALUIT AIRPORT PPP – Canada - a unique 34-year PFI - DBFM of a 230 M\$ new airport terminal.
- LARNAKA AND PAPHOS AIRPORTS PPP – Cyprus - a 25-year Concession - DBFMO of two new passenger terminals for over 10 Mpax. - A 500 M€ Capex Investment.
- HONG KONG INTERNATIONAL AIRPORT – Landside airport PPP - AsiaWorld-Expo – 25-year DBFMO. - A 258 M€ Capex Investment.



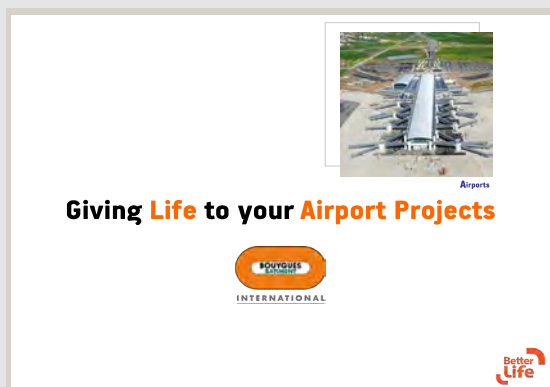
INFRASTRUCTURE JOURNAL AWARDS 2014
Recognizing the achievements of 2013
WINNER

SPONSOR OF THE YEAR
Bouygues Bâtiment International



Project Finance Deals of the Year 2013

► MORE INFORMATION



Airport Development Activity Report 2015.



Airport development :

<http://www.bouyguesbuildingcanada.com/en/content/airport-developement-0>

► CONTACT

BOUYGUES BÂTIMENT INTERNATIONAL
Challenger
1 avenue Eugène Freyssinet
78061 St-Quentin-en-Yvelines
FRANCE



Eric FLEURISSON

Executive Director,
Airport Development

Email: e.fleurisson@bouygues-construction.com

Tel.: +33 (0)1 30 60 36 26

www.bouygues-construction.com

► **OUR ACTIVITY
IN A FEW WORDS**

**BOUYGUES ENERGIES & SERVICES DESIGN,
BUILDS AND MAINTAINS AIRPORT
INFRASTRUCTURES AND EQUIPMENTS.**

► **PRODUCTS AND SERVICES**

A Bouygues Construction subsidiary, Bouygues Energies & Services offers integrated energy, digital and service solutions. It serves public and private clients in the energy network, transport and digital infrastructure sector, as well as in the commercial and industrial sectors. It designs, installs, maintains and operates bespoke technical systems that enable its clients to deliver quality living and working environments for users and, at the same time, to control their energy consumption over the long term.

Bouygues Energies & Services employs 12,000 people in France, the UK, Switzerland, Africa and Canada. It generated sales of €2 billions in 2015.

- Runway and Taxiway (Transport and Services infrastructure, runway lighting, 400Hz...).
- Terminal.
- Nav aids.
- Aircraft Parking Lighting.
- Solar Panels.
- Power Station.

► **MAIN REFERENCES**

France

ADP (Paris Airport), Lyon, Toulouse, Marseille, Cannes, Lorient, military airport.

ASCENA

Equatorial Guinea, Gabon, Congo.

French overseas departments and territories
Guyana, Réunion island.

► **MORE INFORMATION**




Energy center : Saint Exupéry airport (Lyon).



Runway lighting : Saint Exupéry airport (Lyon).

► **CONTACT**

**BOUYGUES
ENERGIES & SERVICES**
6 rue Jean Perrin
69740 Genas
FRANCE

 **Gilles DELAS**
+33 (0)4 78 90 54 21
+33 (0)4 78 90 30 34
Email: g.delas@bouygues-es.com

www.bouyguesenergieservices.com/

**► OUR ACTIVITY
IN A FEW WORDS****• PASSENGER BAGGAGE TROLLEYS LANDSIDE AND AIRSIDE
FOR AIRPORTS AND RAILWAY STATIONS.****► PRODUCTS AND SERVICES**

Since the creation of the company in 1928, CADDIE has become a worldwide leader in the development and manufacturing of trolleys and equipment for the retail business, for premium hotels and for airports since 1957.

From parking lots to check-in, in the arrival zone as well as in the transit zone, Caddie offers passengers and airport managers intelligent solutions for the transport of individual luggage, with trolleys for landside, airside and duty free area.

Being present in all parts of the world, the airport trolley ranges Equinox and Galaxy have strengthened the success and the reputation of the Caddie brand. The new ranges Flylight, Starlight and Shopp'Air will set new standards on the market.

► MAIN REFERENCES**FRENCH AIRPORTS**

Ajaccio, Bastia, Bergerac, Béziers, Biarritz, Bordeaux, Brest, Deauville, La Rochelle, Lille, Montpellier, Nantes, Paris Orly, Pau, Strasbourg, Toulon, Toulouse, Cayenne, Fort de France, Nouméa, Papeete, St Pierre La Réunion.

SNCF French Railways : all major railway stations.

INTERNATIONAL AIRPORTS

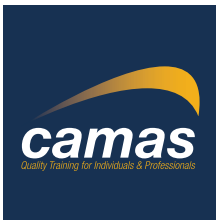
Abidjan, Algiers, Al Ain, Almaty, Annaba, Bamako, Bangkok UTP, Barcelona, Cairo, Casablanca, Dakar, Damas, Doha, Dublin, Fujairah, Guam, Guangzhou, Hannover, Ljubliana, Lodz, Luanda, Mauritius, Moscow Vnukovo, Muscat, Norilsk, Oran, Palermo, Pensacola, Pisa, Rome, Saudi Arabia Shanghai Hongqiao, Tashkent, Tel Aviv, Yerevan.

► MORE INFORMATION**► CONTACT**

Ateliers Réunis CADDIE SAS
1, route de Herrlisheim
67410 Drusenheim - FRANCE
Tel.: +33 (0)3 88 90 62 62
Fax: +33(0)3 88 90 62 00

 Pierre LETZELTER
Product Manager Airports
Tel.: +33 (0)3 88 07 22 13
Mob.: +33 (0)7 86 73 91 60
Email: pierre.letzelter@caddie.com

www.caddie.com



CAMAS TRAINING

► OUR ACTIVITY IN A FEW WORDS

- CAMAS IS A FRENCH GROUP DEDICATED TO AIRPORT AND AVIATION TRAINING, OPERATING WORLDWIDE IN 17 TRAINING CENTRES.

► PRODUCTS AND SERVICES

We offer a wide range of professional training in the aviation and airport industry, such as :

- Airport Safety and Security.
- Dangerous Goods Regulations (IATA).
- Ground Handling.
- Cargo.
- Logistics.
- Audit & Consulting.
- Airport & Aviation Management.

We offer custom courses according to customers' demand and can operate worldwide.

We also offer e-learning courses thanks to our dedicated platform.

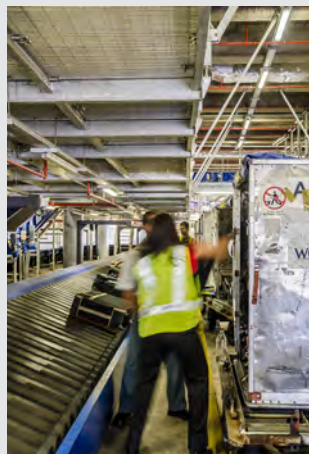
► MAIN REFERENCES

- **MAURITIUS**
In partnership with the IBL Group, G2ACAMAS, a company dedicated to training for individuals and professionals operating in Africa.
- **SULTANATE OF OMAN**
Training of +200 people in topics such as Dangerous Goods, Airport Security, Passenger check-in and Cargo in Paris Roissy-CDG for an all new airport opening in Oman.
- **CHINE**
Partnership with a local Civil Aviation school and University in Chengduto create a new company called Fanmei-Camas and dedicated to professional and vocational airport and aviation training, and on-the-job training courses in Europe.

► MORE INFORMATION




Camas brochure.



► CONTACT

CAMAS FORMATION
Z.A. CDG
7 impasse Nicéphore Niépce
93297 Temblay-en-France Cedex
FRANCE

 **Mrs. Christel BAREL**
CEO
Tel.: +33 (0)6 13 93 87 28
Email: christel.barel@camasformation.fr

www.camastraining.com

► **OUR ACTIVITY
IN A FEW WORDS**

- **SUPPORT AND CONSULTANCY FOR AIRPORT PROJECTS.**
- **DESIGN FOR GLOBAL SOLUTIONS FOR AIRPORT EQUIPMENT.**

► **PRODUCTS AND SERVICES**

- **DESIGN FOR TERMINAL EQUIPMENT**
 - Passenger services.
 - Baggage treatment facilities.
 - Information to travelers.
- **CONSULTANCY AND STUDIES**
 - Fuel project needs analysis.
 - Perimeter protection solutions.
- **ASSISTANCE TO AIRPORT MANAGEMENT**
 - Training to the airport and airline professional.
 - Audits and guidance on compliance.

► **MAIN REFERENCES**

With its partners various works, equipments and services for:

- **TERMINAL EQUIPMENT**
 - Cairo / Egypt.
 - Bagdad / Iraq.
 - Algiers / Algeria.
 - Nouakchott / Mauritanie.
 - Dushanbé / Tadjikistan.
- **AIRPORT CONSULTANCY**
 - Casablanca / Marocco.
 - Paris / France.
 - Heathrow / England.
 - GuangZhou / China.
- **AIRPORT OPERATION**
 - Shishuan College / China.
 - Ground Air/ Mauritius.
 - Balkair Services / Afghanistan.

► **MORE INFORMATION**



► **CONTACT**

CC-Consulting
37 rue Bobillot
75013 Paris
FRANCE

 Carlo CAPPELLO
Tel. 1: + 33 (0)6 38 13 88 15
Tel. 2: + 33 (0)1 45 81 34 64
Email: carlocappello@hotmail.com

cc-consulting@hotmail.fr

► OUR ACTIVITY IN A FEW WORDS

- CODRA IS A FRENCH COMPANY, SPECIALIZED IN INDUSTRIAL AUTOMATION SOLUTIONS SINCE 30 YEARS.
EDITOR OF PANORAMA SOLUTIONS.

► PRODUCTS AND SERVICES

All the expertise of Codra is available in a homogeneous software suite called « Panorama Suite 2016 » : Front-end communication gateway, SCADA and Data Archiving & Reporting tools.

With an installed base of over 30,000 licenses, Panorama solutions are for all airport industries with production monitoring or archiving and data analysis needs.

Building Management, Security Hypervision (Access Control, CCTV, Fire Detection), Aid Unit Operations, Airport Lighting, Baggage Sorting, HV/LV monitoring, Energy management, all subjects on which Panorama solutions meet customer needs and their airport infrastructure.

► MAIN REFERENCES

Many companies already trust in Codra and Panorama solutions:

ADP, Airbus, Air France, DGAC, Liebherr, Safran Turbomeca, Snecma, Thales.

Airport of: Paris-Orly, Paris Roissy-CDG, Bâle-Mulhouse, Birmingham, Charleroi, Dubaï, Dublin, Gatwick, Heathrow, London, Manchester, Mohamed V Casablanca, Nice, Los Angeles, Toulouse.

► MORE INFORMATION



► CONTACT

CODRA
2 rue Christophe Colomb
Immeuble Hélios
91300 Massy
FRANCE

Frédéric BARUGOLA
Tel.: +33 (0)1 60 92 93 00
+33 (0)1 60 92 93 01
Email: f.barugola@codra.fr

www.Codra.net

► OUR ACTIVITY IN A FEW WORDS

- AIRPORT COORDINATION.
- OPTIMISATION OF AIRPORT CAPACITY USAGE.
- CONSULTANCY.
- SPECIFIC AIRPORT COORDINATION SOFTWARE.

► PRODUCTS AND SERVICES

- Airport coordination and slot allocation services, Schedule facilitation.
- Collection of permanently updated air carriers schedules data.
- Airport slot monitoring.
- Licencing of airport coordination specific software- Web interface for airlines and General and Business Aviation Operators - Development of Interface with airport AODB and FIDS.
- Consultancy services on airport coordination implementation, required legal framework - sanctions schemes.
- Training on Airport Coordination and international IATA SSIM Chapter 6 standard.
- Management of exceptional sports or political events expected to generate congestion of some airport resources.

► MAIN REFERENCES

- Slot Allocation for Paris (CDG and ORLY), Nice, Lyon airports.
- Initial coordination for NAIROBI airport during runway works period.
- Audits and Consultancy services for BAHRAIN Airport Company, MEXICO International Airport (AICM), BRAZILIAN Civil Aviation Authority (ANAC).
- Specific airport coordination software implemented in TUNISIA, RIO GALEAO Airport, CUBA Airports.
- Management of EURO 2016 Football Championship in France for 7 additional airports and EURO 2008 in BASEL, FORMULA 1 Grand Prix in MONACO, Film Festival in CANNES, Head of States Summits in NICE.
- Chair of the Worldwide Airport Coordinators Association (WWACG).


► MORE INFORMATION



e-Airportslots.aero

► CONTACT

COHOR
ORLYTECH 530
9, rue Hélène BOUCHER
91781 Wissous Cedex
FRANCE

 Eric HERBANE
Tel.: +33 (0)1 49 75 88 10
Fax: +33 (0)1 49 75 88 20
Email: eric.herbane@cohor.org

www.cohor.org

► **OUR ACTIVITY
IN A FEW WORDS**

- **DESIGNER AND MANUFACTURER OF ARCHITECTURAL SOLUTIONS FOR THE STRUCTURAL AND FINISHING WORK IN CONSTRUCTION INDUSTRY.**

► **PRODUCTS AND SERVICES**

- **Couvraneuf®**: the widest range of expansion joints cover (fire, earthquake, sealing) for all applications (floor, wall, ceiling - inside / outside).
- **Airfoil®**: a variety of exterior solar shading for bioclimatic engineering (horizontal and vertical) and the outer covering (for architects we develop luminating blades: Airfoil Lux).
- **Acrovyn®**: the widest range of product for wall protection and decoration (plate, bumper, hand rails, sheets ...)
- **Pedisystems®**: entrance mats and technical floors.
- **C/S Louvres**: industrial grade ventilation panels from a pioneer in industrial vent systems.

► **MAIN REFERENCES**

- Ronald Reagan National Airport (USA).
- San Francisco International Airport (USA).
- Manchester International Airport (United Kingdom).
- Paris Airport (Paris-CDG).
- Paris Airport (Paris-Orly).
- Edinburgh Airport (United Kingdom).
- Toulouse-Blagnac Airport (France).
- Kuala Lumpur International Airport (Malaysia).
- Houari Boumediene International Airport (Algeria).
- CRNA building of Dakar Airport (Senegal).
- Malabo Airport (Equatorial Guinea).
- Larnaka Airport (Cyprus).
- Paphos Airport (Cyprus).

► **MORE INFORMATION**



Airport of Larnaka Cyprus

C/S France have provided the technical recommendations and supplied the entrance mats, all the fire barriers and seismic joint covers and interior wall protection (stainless steel and elastomeric wall guards).





Airport of Paris CDG

C/S France have supplied all the floor expansion joint covers & the fire barriers and the entire suspended ceiling for the new terminal S4 of Paris CDG Airport.

► **CONTACT**

C/S FRANCE
135 Rue Edouard Isambard
B.P. 66, 27120 Pacy-Sur-Eure
Cedex - FRANCE
Tel.: +33 (0)2 32 67 00 00
Fax: +33 (0)2 32 67 14 12

 **Philippe GUERIN**
Export Manager CS France
Email: philippe.guerin@c-sgroup.com
 **Len TYSON**
International specification Manager CS Group
Email: len.tyson@c-sgroup.com

www.cs-france.fr

► OUR ACTIVITY IN A FEW WORDS

- DESIGN, MANUFACTURE AND INTEGRATION OF BAGGAGE HANDLING SYSTEMS.

► PRODUCTS AND SERVICES

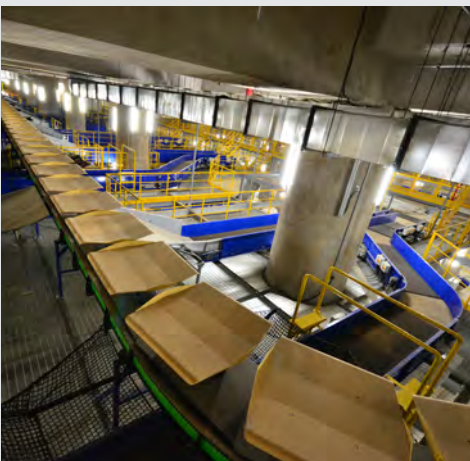
Turn-key baggage handling system solutions:

- Wide range of conveyors and check-ins.
- Bag drop solutions.
- 100% hold baggage screening, unique standard 3 experience.
- Tilt tray sorter and sorting carousels.
- Make-up and reclaim carousels.
- Destination coded vehicle (DCV).
- Bag tray system (BTS).
- Early bag storage (EBS) - conveyors and cranes.
- System engineering, simulation, 3D CAD and BIM modelling.
- Electrical and control systems.
- IT solutions such as sort allocation controller (SAC), baggage reconciliation systems (BRS).
- In-house emulation FAT.

► MAIN REFERENCES

- Roissy CDG and Orly, France.
- Marseille, Nantes, Montpellier, Toulouse, Nice, Bordeaux and Beauvais, France.
- Sharm El Sheik, Egypt.
- Nairobi, Kenya.
- Addis Ababa, Ethiopia.
- Varsovie et Cracovie, Poland.
- Charleroi, Belgium.
- Geneva, Switzerland.
- Casablanca, Morocco.
- Gatwick and Heathrow, United Kingdom.
- Atlanta, USA.
- Montreal and Toronto, Canada.
- Moscow, Russia.
- Kunming and Beijing, China.
- ... and even more : over 500 references in the world.

► MORE INFORMATION



► CONTACT

DAIFUKU LOGAN
7 allée de la Seine
94200 Ivry-Sur-Seine
FRANCE



Pierre VARNIER

Business development manager

Email: pierre.varnier@daifuku-logan.com

Tel.: +33 (0)1 49 59 74 51 - Mob.: +33 (0)6 82 45 68 52

Fax: +33 (0)1 46 71 35 24

www.daifuku-logan.com



► **OUR ACTIVITY
IN A FEW WORDS**

- **DEF (DETECTION ELECTRONIQUE FRANÇAISE) IS A FRENCH MANUFACTURER AND INSTALLER OF FIRE DETECTION EQUIPMENT.**

► **PRODUCTS AND SERVICES**

Since 1958, DEF manufactures, design, install and achieve commissioning of complex fire detection in all types of environment.

DEF is a worldwide company of 2000 people that has an expertise to provide many others solutions to protect people and equipment : gas suppression systems, high and low pressure watermist systems, sonorisation systems, anti-instrusion/videos, smoke extraction systems.

► **MAIN REFERENCES**

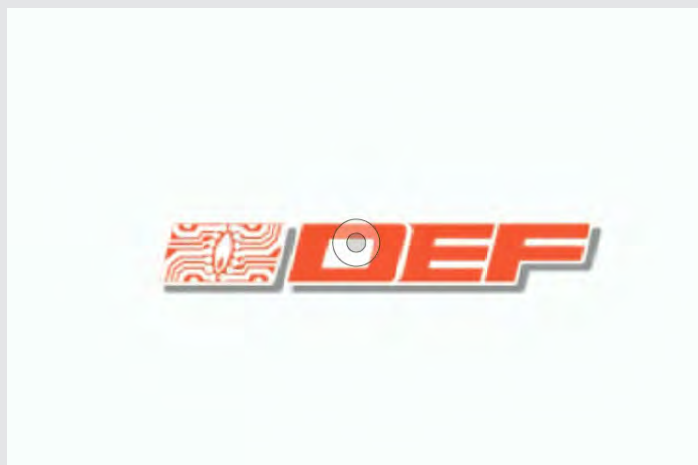
FRANCE

- Charles de Gaulle airport (Paris).
- Marseille-Provence airport (Marseille).
- Saint-Exupéry airport (Lyon).
- Roland Garros airport (La Réunion).
- Aimé Césaire airport (Martinique).
- Tontouta airport (New caledonia).

AFRICA


- Algiers airport (Algeria).
- Dakar airport (Senegal).
- Tabarka airport (Tunisia).
- Felix Houphouet Boigny airport (Ivory Coast).
- Abu Dhabi airport (UAE).
- Baghdad airport (Iraq).

► **MORE INFORMATION**



► **CONTACT**

DEF (DOI)
 Parc d'activités du Moulin de Massy
 9 rue du Saule Trapu - BP211
 91882 Massy Cedex
 FRANCE

 **Hacene BELAID**
 Export Sales and Development
 Tel.: +33 (0)1 60 13 81 00
 Email: contact@def-online.com

www.def-online.com

► **OUR ACTIVITY
IN A FEW WORDS**

- **DEGREANE HORIZON OFFERS A BROAD RANGE OF PRODUCTS AND SERVICES FOR METEOROLOGICAL OBSERVATION.**

► **PRODUCTS AND SERVICES**

Automatic weather stations:

- XARIA range to equip synoptic and climatological networks.

Integrated Runway Meteorological Observation System SIOMA, designed for all categories of airports from small VFR aerodromes right up to category III C major international airports:

- Suitable sensors range: DF320 Forward Scatter, TR30 Transmissometer, TL320 Ceilometers.
- Supervisor with CAOBS CHROME client-server architecture.
- PCL 1300 Wind Profiler radar which measures the vertical profile of the wind at altitude and detects wind shear conditions.

DEGREANE HORIZON also proposes a set of training, installation and maintenance services suited to different kinds of operating.

► **MAIN REFERENCES**

More of 400 references in 90 countries in Europe, Middle East, Africa, America and Asia.

DEGREANE HORIZON equipped major national meteorological services with climatological and synoptic networks of Automatic Weather Stations and SIOMA (Integrated Runway Meteorological Observation Systems) are installed on many hundreds of Civil and Military airports.

The French Defense Ministry chose DEGREANE HORIZON's transportable tactical meteorological systems for its army.

► **MORE INFORMATION**



Visibility and wind captors.



Profiler PCL 1300.



Transmissometer TR30 LED.

► **CONTACT**

DEGREANE HORIZON
730, rue de l'Initiative
Quartier Saint-Lazare
83390 Cuers
FRANCE

Tel.: +33 (0)4 98 16 31 63
Fax: +33 (0)4 98 16 31 64

www.degreane-horizon.com

**► OUR ACTIVITY
IN A FEW WORDS**

- PERIMETER SECURITY SPECIALIST:
FENCES - GATES - ACCESS CONTROL.

► PRODUCTS AND SERVICES

DIRICKX builds the best possible solutions based on the configuration of your site and your objectives.

This includes:

- Securing access with defensive or passive fencing.
- Closing entrances with mechanical equipment.
- Controlling and managing flow at access points with drive motors.

You get a complete and personalised experience with our services offer, covering everything from design, to installation and maintenance.

► MAIN REFERENCES

- Mohamed V Airport in Casablanca.
- Budapest Airport.
- Bratislava Airport.
- Phom Penh airport.
- Military Air bases.
- Military Sites.
- The port of Fort-de-France in Caribbean Islands.
- Barcelona Port.
- 12 nuclear power stations.
- Free zone of Tangier.
- The methane terminal of Fos-sur-Mer (France).
- Pipeline in south of Lisbon.

► MORE INFORMATION

Military base.



Bratislava.



Cambodia.

► CONTACT

DIRICKX GROUPE
Le bas rocher
53800 Congrier
FRANCE

Tel.: +33 (0)2 43 09 38 38
Fax: +33 (0)2 43 09 38 99
E-mail: contact@dirickx.com

www.dirickx.com

► **OUR ACTIVITY
IN A FEW WORDS**

- **EXPERTISE AND CONSULTANCY OFFICE
OF THE FRENCH CIVIL AVIATION:
11 500 EXPERTS - 60 PROJECTS IN 25 COUNTRIES.**

► **PRODUCTS AND SERVICES**

REGULATION AND SAFETY OVERSIGHT

- Safety Oversight.
- Civil Aviation Code.

OPERATIONS OPTIMIZATION

- Airspace Design.
- AFIS.

INNOVATIVE SOLUTIONS

- UWAS - Detecting and tracking drones.
- ELVIRA - Safety Manager Tool.

OPERATIONAL TRAINING

- ATC Supervisor in partnership with ENAC.
- On-site training.

► **MAIN REFERENCES**

HAITI: Civil Aviation Code, Safety Oversight Authority, Air Navigation.

SUDAN: Resctructuration of Sudan's Airspace.

TUNISIA: Calibration.

EGYPT: Air Traffic Controler operational training.

Airbus Prosky, ADPi, Egis Avia, CGX, INNOV'ATM, ENAC, ...

► **MORE INFORMATION**



► **CONTACT**

GIE DSNA SERVICES
50 rue Henry Farman
75720 PARIS CEDEX 15
FRANCE

Tel.: +33 (0)1 58 09 38 33
Tel.: +33 (0)1 58 09 47 29
Fax: +33 (0)1 58 09 38 56
E-mail: contact@dsnaservices.com

www.dsnaservices.com

► **OUR ACTIVITY
IN A FEW WORDS**

• **EDGE AIRPORT IS A GLOBAL PROVIDER OF IT SOLUTIONS TO AIRPORTS AND AIRLINES.**

► **PRODUCTS AND SERVICES**

At Edge Airport, we focus to deliver proven, cost-effective solutions - improving the passenger experience, increasing efficiency and reducing costs.

- Passenger & Baggage Processing: Cupp-t (CUPPS Platform), PaxTracer (Passenger flow management), Local-DCS and BRS.
- Flight Information Display System: FIDS.
- Resource Management System: RMS.
- Airport Operational Database: AODB.
- Information Broker: ADEX.
- Operational Indicators: IOPS.
- Aeronautical messaging Type B: IATATEXT.
- Airport Billing, Accounting and Statistics.
- Remote Monitoring and Control: Edge Vision.

► **MAIN REFERENCES**

- Abidjan (Ivory Coast).
- Brazzaville (Democratic Republic of the Congo).
- Pointe-Noire (Democratic Republic of the Congo).
- Port Gentil (Gabon).
- Mayotte.
- Tahiti.
- Bergerac (France).
- Angers (France).
- Avignon (France).
- Nimes (France).
- Brive (France).
- Castres (France).
- La Rochelle (France).
- Poitiers (France).
- Dole Jura (France).

...

► **MORE INFORMATION**



► **CONTACT**

EDGE AIRPORT FRANCE
ZAE Les Lèches
24400 Mussidan
FRANCE

 **Vincent GÉNOT**
Tel.: +33 (0)5 53 80 13 66
E-mail: contact@edge-airport.com

www.edge-airport.com

► **OUR ACTIVITY
IN A FEW WORDS**

- **AN INTERNATIONAL GROUP PROVIDING CONSULTANCY AND ENGINEERING SERVICES FOR: AIRPORTS, AIR TRAFFIC MANAGEMENT AND AIRCRAFT.**

► **PRODUCTS AND SERVICES**

- Aviation consultancy including strategy, feasibility studies, project management, regulation / certification, master planning, safety / security, performance / capacity, ORAT and environmental impact.
- Aviation engineering including technical studies, infrastructure and building design, systems and equipment engineering (from definition to commissioning), human factors, works supervision and utility networks.
- Turnkey solutions for airport and ATC infrastructure including terminal, ATC towers and cabs.
- Operation activities for a network of partner airports including investment, operations & maintenance, and business development.

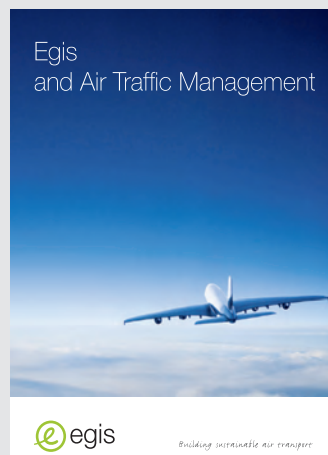
► **MAIN REFERENCES**

- Support to the development of standard operating procedures for Jeddah airport.
- Support to GNSS deployment in sub-Saharan Africa.
- Consultancy, engineering and operation services to Abidjan Airport - rated "Airport Carbon Accreditation".
- Design of the new Djermaya International Airport.
- 15-year CNS/ATM master plan for Kenya airspace.
- Consulting & training services in support of EASA technical cooperation activities.
- Safety and Human Factors assurance support to AEROTHAI.
- Analysis of runway-related delays and disruptions at Heathrow and Gatwick Airports.
- Assistance to project manager in programming, designing and commissioning a new heliport in Rohini-Delhi.

► **MORE INFORMATION**



Egis and Airports



Egis and Air Traffic Management



Corporate movie.

► **CONTACT**

EGIS AVIA
15 avenue du Centre
CS 20538 Saint-Quentin-en-Yvelines
78286 Guyancourt cedex
FRANCE

Tel.: +33 (0)5 62 24 56 00
Fax: +33 (0)5 62 24 49 64
E-mail: contact.egis-avia@egis.fr

www.egis.fr



► **OUR ACTIVITY
IN A FEW WORDS**

- **ACCESS SOLUTIONS IN DUCTILE IRON, GALVANISED STEEL, STAINLESS STEEL, ALUMINIUM AND COMPOSITE MATERIAL FOR ALL NETWORKS.**

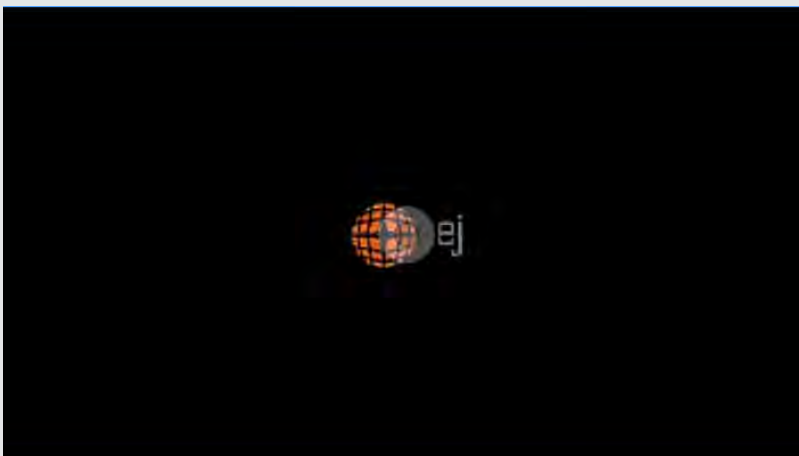
► **PRODUCTS AND SERVICES**

- Manhole covers and frames.
- Airport Ermatic® machined modular solutions.
- Airport Linear trench COVERS and frames.
- Airport Linear trench DRAINAGE gratings.
- Airport Access hatches.
- Class test loads: B125 to F900.
- Products manufactured according to EN124: 1994.
- Third party Certifications NF, KM, Aenor, Copro, Komo, etc. complying with BAA, ADP, AENA, ANA, ENAV Airports and Ports Authorities.

► **MAIN REFERENCES**

- **EUROPE:** Frankfurt Am Main Intl. FRA, Stuttgart STR, Franz Josef Strauss Intl. MUC, Milan Linate LIN, Malpensa Intl. MXP, Barcelona El Prat BCN, Bilbao Loiu Airport BIO, Adolfo Soarez Madrid Barajas MAD, Manchester Runway li MAN, London Heathrow LHR, Paris Charles de Gaulle CDG, Liverpool II Airport LPL.
- **USA:** Los Angeles Intl. LAX, Detroit Metropolitan DTW, Chicago O'hare Intl. (Ord), Washington Dulles Intl. IAD, Dallas-Fort Worth Intl. DFW, Las Vegas-Mccarran Intl. LAS.
- **MIDDLE EAST:** Dubai Intl. DXB, KAIA Intl. Airport JED.
- **ASIA:** Soekarno-Hatta airport, Jakarta CGK, Bangkok Intl. airport BKK, Changi Intl. Airport SIN, Beijing Capital Intl. PEK.
- **AFRICA:** Yaounde Nsimalen YAO, Dakar Int. DKR.
- **SOUTH AMERICA:** Ezeiza Argentina EZE.

► **MORE INFORMATION**



Corporate movie.



EJ catalog.

► **CONTACT**

EJ EMEA
Z.I. de Marivaux
Saint Crépin Ibouvillers
BP 50409
60544 Méru Cedex - FRANCE

 **Alberto CANDIL**
Airports & Ports market Director
Tel.: +33 (0)3 44 08 28 47
Fax: + 33 (0)3 44 08 28 05
E-mail: emea.airportport@ejco.com

www.ejco.com

► **OUR ACTIVITY
IN A FEW WORDS**

- **EKIUM PROVIDES ENGINEERING SERVICES FOR AIRPORT FUEL SUPPLY SYSTEMS AND FOR SAFETY SECURITY AND ELECTRICITY.**

► **PRODUCTS AND SERVICES**

FUEL STORAGE, HYDRANT AND FIRE FIGHTING SYSTEMS

- Audits, economical opportunities, project management.
- Concept and preliminary design, investment budgets, planning.
- Front end engineering, tender package, site works supervision.

TERTIARY, SAFETY AND SECURITY SYSTEMS

- Power and HVAC engineering systems.
- Safety and security : detection, automatic extinguishing, access control, video surveillance.
- Datacenter.
- Building management systems.
- Power generation and supply systems.

► **MAIN REFERENCES**

FUEL FARM, HYDRANT SYSTEM, FIRE FIGHTING

- BUCAREST for AIR TOTAL - Design, building permitting, site works supervision, commissioning.
- DOHA et JEDDAH for ADPI - Storage and hydrant systems.

MASTER PLAN, CONCEPT AND DETAILED DESIGN, TENDER DOCUMENTS FOR PROCUREMENT AND CONSTRUCTION CONTRACTING

- NIGER, DAKAR, SENEGAL for EGIS - Design audits.
- LYON, BALE-MULHOUSE - Assistance in choosing a new operator, business plan.
- NICE, LE BOURGET - Master plan, economic opportunity, basic engineering, Institutional and administrative reviews.

TERTIAIRY, SECURITY and SAFETY

- AIR FRANCE Roissy, Toulouse.
- AÉROPORT DE LYON - HVAC, technical fluids networks, security setting.

► **MORE INFORMATION**



Fuel farm, Doha airport.



Engineering services.

► **CONTACT**

EKIUM GROUP
5 allée des droits de l'Homme
69500 Bron
FRANCE
Office: +33 (0)4 72 81 50 50
Fax: +33 (0)4 72 81 50 51

 **Pol LE GOURRIEREC**
pol.legourrierc@ekium.eu
 **Philippe ROLIN**
philippe.rolin@ekium.eu
Mob.: +33 (0)6 07 10 11 44
Mob.: +33 (0)6 73 68 44 14

www.ekium.eu

► **OUR ACTIVITY
IN A FEW WORDS**

- MAINTAINING SUSTAINABLE AND ENERGY EFFICIENT AIRPORTS.
- FACILITY MANAGEMENT.
- BAGGAGE MANAGEMENT SYSTEM.

► **PRODUCTS AND SERVICES**

OPERATIONS AND MAINTENANCE

- Baggage handling systems (BHS), Screening machines.
- Docking systems, GPU's 400Hz, Boarding Bridges (PBB), PCu's, Apron lighting.

BAGGAGE MANAGEMENT SYSTEM

- SAC (Sort Allocation Computer), BRS (Baggage Reconciliation), EBS (Early Bag Storage Management), Easy bag tracking and Bag Tag Activation, Self Service Bag drop.
- IDS (Information Display System), Allocation/resource management, Connects to SITA, ARINC, FIDS, DCS, AODB.

FACILITY MANAGEMENT

- Hard Services (HVAC, plumbing, electrical, mechanical, fire detection, sprinklers).
- Soft Services (cleaning, greens, janitorial services), contractors management.
- Installation works, Handyman services, Help-Desk & reporting.

ENERGY SERVICES

- Rational use of energies, Smart metering, Renewable production, Result commitment.

► **MAIN REFERENCES**

COFELY Airport Services currently operates in more than 25 airports worldwide.

- **Newark airport:** O&M of BHS, PBB, decrease of operating costs for Delta Airlines.
- **Boston airport:** O&M of BHS, PBB, reducing downtime, spare parts costs and energy.
- **Schipol airport:** technical maintenance in all buildings, major installation works.
- **Brussels airport:** complete O&M airside and landside, Handyman services.
- **Paris CDG airport:** BHS, PBB, GPU's, for T2.
- **Montreal YUL airport:** BHS, Self Service Bag drop, Baggage Management Systems, PBB.
- **Abu Dhabi airport:** Transfer Baggage System at T3.

And more...

► **MORE INFORMATION**



► **CONTACT**

ENGIE COFELY
69, rue de la Belle Etoile
Batiment B
BP 59320 95700 Roissy
FRANCE

Tel.: +33 (0)1 48 17 05 70
Fax: +33 (0)1 48 17 05 80
Tel.: +32 (0)2 206 05 24
Fax: +32 (0)2 206 03 14
Email: Commercial@cofelyals-gdfsuez.fr

www.cofelyairports-gdfsuez.com

► **OUR ACTIVITY
IN A FEW WORDS**

- **ATC/ATM: VCS, ITWP.**
- **FIXED & MOBILE CONTROL TOWERS.**
- **VCS & CONTROL TOWER SIMULATION.**
- **POWER, TELECOM & DATA NETWORKS, SAFETY.**

► **PRODUCTS AND SERVICES**

Integration of critical telecommunication & information systems for air traffic safety:

- **ATC/ATM:** Digital and analog radio systems (VCS), integrated towers, mobile towers, AFTN/AMHS, AIS, time synchronization, ATIS, D-ATIS...
- **Simulation:** VCS & control tower simulator.
- **Safety:** CCTV, access control, intrusion detection.
- **Runway infrastructures :** Production and backup power plants, solar panels, runway lighting, nav aids, weather stations...
- **Telecom & data networks:** HF/VHF, UHF, remote VHF stations, VSAT, LAN/WAN...

► **MAIN REFERENCES**

FRANCE

DSNA/DTI, CRNA.

AFRICA

ASECNA (VSAT/VHF AFISNET network - 17 countries) DGGT (Congo), ATNS (South Africa), SADC2/NAFISAT network, CAMA (Yemen), CAAZ (Zimbabwe), LCAA (Libya) OACA (Tunisia), CAA (Rwanda), NAMA (Nigeria), ONDA (Morocco)...

SOUTH AMERICA

OACI (VSAT/VHF REDDIG network), CORPAC (Peru), INAC (Venezuela), DGIA (Uruguay)...

ASIA

Ujung Pandang (Indonesia).

► **MORE INFORMATION**



ATC/ATM Products designer.



TESSALI 5983.

► **CONTACT**

ENGIE INEO
Inovel Parc Sud
23, rue Général Valérie André
78140 Vélizy Villacoublay
FRANCE

HOP TON THAT
Tel.: +33 (0)1 39 26 15 00
Fax: +33 (0)1 39 26 17 20
Email: hop.tonthat@engie.com

www.engie-ineo.fr/

► **OUR ACTIVITY
IN A FEW WORDS**

• **ENVISA IS A CONSULTING & ENVIRONMENTAL RESEARCH
FIRM, SPECIALIZED IN THE AVIATION SECTOR.**

► **PRODUCTS AND SERVICES**

Composed of environmental & aviation experts, Envisa offers to aviation professional customized services, in order to improve their energy efficiency and increase their profits.

Research and innovation are fundamental to our organization, which confer to us a leading position on the market. Our focus areas are local air quality, noise, greenhouse gas and pollutants emissions.

In addition, we support airports to get the Airport Carbon Accreditation through consultancies or audits.

► **MAIN REFERENCES**

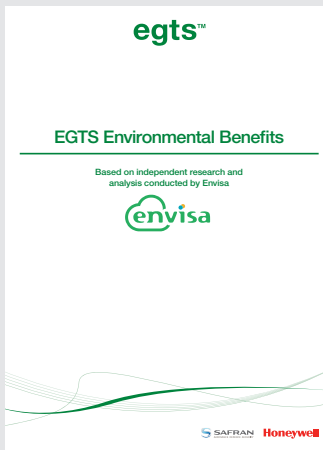
With more than 10 years of experiences in the aviation sector, Envisa has forged a strong network of airports, industrial, national and international institutions.

Our references include institutional partners such as EUROCONTROL (European Organisation for the Safety of Air Navigation), EASA (European Aviation Safety Agency) but also Egis Group, SAFRAN & Honeywell in the private sector.

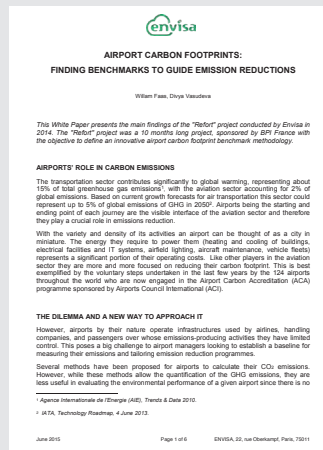
In addition, we supported the following airports:

- Bahrain International Airport.
- Geneva International Airport in Switzerland.
- Vinci Airports in France and Cambodia.
- La Rochelle - Ile de Ré Airport in France.
- Bucharest International Airport in Romania.

► **MORE INFORMATION**



Environmental Impacts of EGTS.



Airport carbon footprints.

► **CONTACT**

ENVISA
22, rue Oberkampf
75011 Paris
FRANCE

Tel.: +33 (0)1 71 19 45 80
info@env-isa.com

www.env-isa.com

► **OUR ACTIVITY
IN A FEW WORDS**

- **TURNKEY PROJECTS: ENGINEERING, PROCUREMENT, COMMISSIONING AND KNOW-HOW TRANSFER FOR OPERATORS.**

► **PRODUCTS AND SERVICES**

- Lighting, signaling and access control (runway, taxiway, PAPI, ...).
- VDGS.
- Electrical power plants (fuel, hybrid fuel solar, UPS).
- Wiring and distribution.
- Safety and security of persons and goods (access control CCTV, biometry, control and recording rooms,...).

References in France and Africa. Experience in harsh and isolated environment (Niger).

► **MAIN REFERENCES**


- Maputo airport (Mozambique).
- Abidjan airport (Ivory Coast).
- Imouraren airport (Niger).
- Charles de Gaulle airport Paris.
- Nice airport(France).
- Cannes airport (France).

► **MORE INFORMATION**



► **CONTACT**

FESI
945, rue du faubourg
d'Esquerchin
59553 Cuincy
FRANCE

 **O. LAMBERT**
Tel.: +33 (0)3 27 95 98 98
Email: o.lambert@fesi.fayat.com

www.fayat-energie.com

► **OUR ACTIVITY
IN A FEW WORDS**

- DESIGN AND MANUFACTURING OF SECURED MASTER CLOCK SYSTEMS.
- DIGITAL SIGNAGE & DISPLAYS.

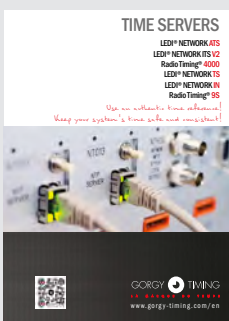
► **PRODUCTS AND SERVICES**

- **Timestamping Management and synchronization in Air Traffic Control:**
 - Modular Time Center (RT4000).
 - NTP/PTP/E1 Time servers.
 - Software : remote configuration and monitoring of master clock system.
- **Information for Ground Staff and Passengers:**
 - Analogue clocks (HANDI®).
 - Digital Time display, calendar Clocks, World zone clock (LEDI® and LEDICA®).
 - LED/LCD Digital Signage and Displays, FIDS.
- **Tailor-made solutions.**
- **Services:**
 - FAT/SAT/Training
 - Remote support
 - Maintenance...

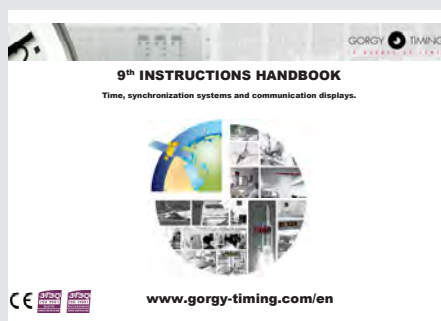
► **MAIN REFERENCES**

- **Airports:** more than 600 international airports and ATCs over the world.
- **Australia:** Air Services, upgradation of ATC system.
- **South Africa:** Civil Aviation Authority, upgradation of 10 ATCs.
- **ASECNA:** 30 ATCs in Africa.
- **UAE:** (Dubai, Abu Dhabi ATC).
- **Middel East:** Jordan (Queen Alia Intl Airport ATC). Qatar (Doha Airport ATC & Terminal). Egypt (Cairo, Assiut, Hurghada Intl Airport Terminal).
- **Asia:** Hong Kong New ATC complex, Vietnam (Noi Bai, Danang ATC), Thailand, Brunei, Philippines, Turkmenistan.
- **Portugal:** ATC and Management Support Systems (NAV).
- **Railway:** Delhi metro Phase 3, Taipei Taoyuan Airport MRT.
- **Oil & Gas:** Shell FLNG Phase 1...

► **MORE INFORMATION**



Time server range.



Technical guidelines.



► **CONTACT**

GORGY TIMING SAS
Quartier Beauregard,
38350 La Mure d'Isère
FRANCE

 **Yi PASCAL** - Export Sales Manager
Email: yi.pascal@gorgy-timing.fr
Tel.: +33 (0)4 76 30 48 20
Fax: +33 (0)4 76 30 85 33
Email: gorgy@gorgy-timing.com

www.gorgy-timing.fr



► OUR ACTIVITY IN A FEW WORDS

- GROUND HANDLER ASSISTANT
- PROVIDER IN AIRPORT / PORT SECURITY SERVICES
- TRAINING FOR HANDLING AND AIRPORT FIREFIGHTERS

► PRODUCTS AND SERVICES

Founded in 2001, the **Groupe 3S** is now-a-day one of the leaders in ground handling in France, thanks in particular to Alyzia, which was integrated in 2012; and its locations on the main French airports.

Its subsidiary Excellence Academy's mission is to maintain the training of its agents - but also of external companies; in all operational jobs (on the ramp; assistance to passengers, de-icing ...), security, tertiary activities and regulatory training (DGR, SST ...).

In October 2017, the C2FPA - French Airfield Firefighter Training Center joined the Groupe 3S. **G3S International** brings Groupe 3S expertise beyond our borders with G3S Senegal (port security) and G3S Burkina Faso (approved training center).

► MAIN REFERENCES

Through its various subsidiaries and their locations in Paris, Lyon, Marseilles, Toulouse, Bordeaux, Montpellier and Nantes, Groupe 3S assists 80 airlines each year; it manages 10 million passengers and more than 10 million pieces of luggage. Its training centers (Excellence Academy and G3S Burkina Faso) host more than 32,000 trainees each year on behalf of 2,000 clients.

Since 2012, G3S Senegal has supported the Port Autonome de Dakar in the implementation of an integrated security system for ISO 28000 certification.

The Group is **ISO 9001, 14000 OHSAS 18000 and ISAGO certified**

► MORE INFORMATION

► CONTACT

Groupe 3S
4 Place de Berlin
Roissy Pôle
Bâtiment Neptune
93290 TREMBLAY EN FRANCE

 M. Thierry GRESSIER

Email: thierry.gressier@groupe3s.com
Tel. : +33 (0)6 37 29 14 89
Tel. (Std): +33 (0)1 74 37 75 69

<https://www.groupe3s.com/>

► **OUR ACTIVITY
IN A FEW WORDS**

- **MANUFACTURER OF AIRCRAFT GROUND POWER/AIR CONDITIONING/AIR CABIN HEATER/ASU.**
- **EXPERT IN AIRCRAFT APU SUBSTITUTION SOLUTION.**

► **PRODUCTS AND SERVICES**

Airport ground equipment supplying energy to the aircraft / helicopter – civil or military:

- **Electrical power (400Hz ou 28VDC):** diesel ground power units and static frequency converters (fixed, mobile or passenger bridge mounted) - from 5 to 200kVa.
- **Thermal power:** air conditioning units, mobile diesel ACU, mobile and fixed electrical ACU - from 20 to 500 kW; direct expansion technology or glycol water technology, ground air cabin heater.
- **Pneumatic power:** mobile air start units, driven by diesel engine - from 150 to 400 ppm.

► **MAIN REFERENCES**

- KLM.
- Lufthansa.
- Garuda Indonesia.
- Air New Zealand.
- Philippine Airlines.
- Malaysia Airlines.
- US Airways.
- American Airlines.
- Etihad Airways.
- Emirates.
- Air France.
- Aéroports de Paris.
- Munich Airport.
- Fraport.
- Royal Netherlands Air Force.
- French Air Force.
- NATO.

► **MORE INFORMATION**



PCA unit at CDG Airport.



Frequency Converter Passenger bridge mounted.

► **CONTACT**

GUINAULT SA
PAOS La Saussaye
95 Rue du Rond d'Eau
45590 Saint-Cyr en Val
FRANCE
Tel.: + 33 (0)2 38 63 84 00

LEBRUN
13 Rue Gérard
7020 Nimy
BELGIQUE
Tel.: +32 65 40 30 30
E-mail: info@guinault-lebrun.com

www.guinault-lebrun.com

► **OUR ACTIVITY
IN A FEW WORDS**

HUB ONE IS A GROUP OFFERING ICT SERVICES FOR WORK ENVIRONMENTS

- **OPERATOR: FIXED & MOBILE TELECOMMUNICATIONS, RADIO, NETWORK.**
- **INTEGRATOR OF TRACEABILITY AND MOBILITY SOLUTIONS.**

► **PRODUCTS AND SERVICES**

Hub One is a subsidiary, 100% controlled by the ADP Group, and can boast expertise acquired through some of the busiest airports in Europe.

It uses this expertise as the basis to provide advice for airport managers, deploy customized fixed/ mobile telecommunications, mobility and traceability solutions and maintain operational conditions in ever more demanding environments. Hub One designs, operates and commercializes:

- IT, Telecom networks and services.
- Wi-Fi Hotspot & management of data flows.
- Digitisation of airport spaces.
- Professional services for mobile resources optimization.
- Asset tracking.
- Consulting: radio, Wi-Fi, LAN, digital airport.

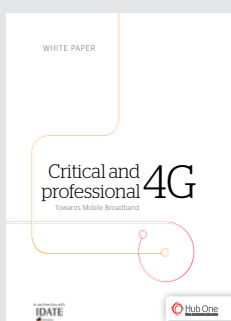
► **MAIN REFERENCES**

- **PARIS airport:** Network & services/radio & telecom.
- **AMSTERDAM SCHIPHOL airport (Netherlands):** Hotspot Wi-Fi.
- **Champs Elysées, PARIS:** Hotspot Wi-Fi for JC Decaux.
- **LYONS airport:** Hotspot Wi-Fi.
- **MARSEILLES airport:** Hotspot Wi-Fi.
- **TANGIERS port (Morocco):** Network & services.
- **Air France/ KLM:** Wi-Fi Pro, CCTV System, PDA, Containers tracking.
- **SERVAIR:** Traçabilité for PHMR equipment, mobile phones, secured network, VPN.
- **WFS:** PDA device, VPN, Unified Communications.
- **UNIBAIL:** Wi-Fi et Hotspot.
- **NATIXIS:** Guests.Wi-Fi.

► **MORE INFORMATION**



Connected airport.




Critical and 4G Professional.



► **CONTACT**

HUB ONE
Roissypôle - Le Dôme
4 rue de la Haye - BP 11937
95732 - Roissy CDG Cedex
FRANCE

 **Albane ROUSSOT**
International Sales Manager
Email : albane.roussot@hubone.fr
Tel.: +33 (0)1 70 03 85 00 - Tel.: +33 (0)1 74 22 99 98
Fax: +33 (0)1 70 03 41 03

www.hubone.fr



HUB PERFORMANCE
Airport Capacity Planning

HUB PERFORMANCE

► OUR ACTIVITY IN A FEW WORDS

- OUR AIM IS TO OPTIMISE AIRPORT HUB PERFORMANCE USING CAPACITY PLANNING FORECAST, SIMULATION AND WAITING TIME PREDICTION.

► PRODUCTS AND SERVICES

From long term, middle term and short term forecast to real-time prediction

HUB Performance provides consultancy services to support terminal new design projects, performance measurement including space utilisation, passenger waiting time forecast and service level.

We are also expert in Baggage Handling System (BHS) and Cargo Hub design validation using 3D simulation including focus in HBS standard 3 asset replacement projects.

Solutions

- PAX2SIM: Terminal Capacity planning software.
- Naga Concept: Queue Management and Counting Solutions.
- AutoMod: 3D material handling simulation.

► MAIN REFERENCES

FRENCH AIRPORTS PROJECTS

- Paris CDG 2E S3, Paris ORY Junction, Lyon, Bordeaux Billi, EuroAirport.

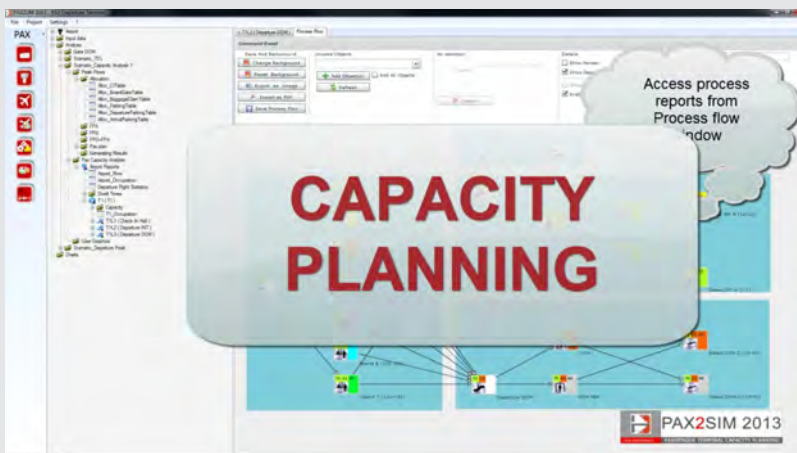
INTERNATIONAL AIRPORTS PROJECTS

- London Heathrow Q6 T1, T2 & T4, London Gatwick South terminal, Athens International, Geneva, Liège.

ENGINEERING, EQUIPMENT SUPPLIERS

- ADPI, CALL3D, BNP Associates, Jeppesen, TG Concept, Alfyma, Alstef, Beumer group, Siemens, Teleflex.

► MORE INFORMATION



► CONTACT

HUB PERFORMANCE
32, boulevard Robert Thiboust
77700 SERRIS
FRANCE

Tel.: +33 (0)1 85 49 03 40
Fax: +33 (0)9 72 54 91 17
Email: info@hubperformance.com

www.hubperformance.com

► **OUR ACTIVITY
IN A FEW WORDS**

- **SELF-SERVICE SOLUTIONS FOR THE PASSENGER PROCESS.**
- **CHECK-IN, BAGGAGE TAGGING, BAG DROP.**
- **BORDER CONTROL AND BOARDING.**

► **PRODUCTS AND SERVICES**

CHECK-IN SOLUTIONS

- Self-service kiosk: IER919 multi-service kiosk for tagging, check-in & sale of ancillary services.
- Printers: **New i420 compact desk check-in printer**, IER 400 & 560 bag tag & boarding pass printers.
- Aliss: A turnkey check-in application.
- Self-Bag Drop: Flexible and innovative self-bag drop solution.
- **Border control:** IER 919 ABC kiosks and Border Control Gates with passport reader & biometric devices to expedite passengers through customs.
- **Boarding:** IER 710 SlimGate automated gate.
- **Readers:** IER 602 gate reader (RFID, NFC, barcodes).
- **IMS:** the IER 24/7 proactive monitoring and administration services for intelligent objects.
- **Advanced Customer Services:** solution design, deployment, maintenance and operational support.

► **MAIN REFERENCES**

- **Self-service check-in kiosks:** IER's global installed base exceeds 2,550 units. The IER 919 kiosk, our latest generation kiosk, has been deployed at various worldwide locations such as San Francisco Intl Airport, Viracopos Airport, Air New Zealand, Paris Aéroport, Aeroflot, Airports of Mauritius Co Ltd., Royal Air Maroc...
- **Automated Border Control (kiosks, readers):** Libreville airport, Miami airport...
- **Self-boarding gate: IER 710 SlimGate:** Brussels South Charleroi Airport.
- **Terminals:** IER 400 & 560 BP/BT printers, IER 602. More than 100,000 terminals deployed.
- **Gate reader:** American Airlines, Hyderabad Airport, Guangzhou Baiyun Airport, Yinchuan Hedong Airport...

► **MORE INFORMATION**



IER 710 SlimGate Self-Boarding Gates at Charleroi Brussels South Airport (Belgium).



IER 919 Self-Check-in Kiosks for Royal Air Maroc at Casablanca International Airport (Morocco).



IER 919 Self-Check-in Kiosks for Aeroflot at Sheremetyevo International Airport in Moscow (Russia).

► **CONTACT**

IER SAS – Headquarter
3, rue Salomon de Rothschild
92150 Suresnes - FRANCE
Tel.: +33 (0)1 41 38 60 00
Email: contact@ier.fr

👤 IER Pte Ltd, Singapore
Tel.: +65 6276 6966
👤 IER Espagne, Madrid
Tel.: +34 91 535 89 75
👤 IER Inc., Belton TX, USA
Tel.: +1 254 933 50 00

www.ier.com

Marketing & Press
👤 Catherine KOKAR
Marketing manager
Tel.: +33 (0)1 41 38 61 10

► OUR ACTIVITY IN A FEW WORDS

- CBT TRAINING SOFTWARE FOR SCREENERS.
- ONLINE CERTIFICATION PLATFORM.

► PRODUCTS AND SERVICES

LOGYx offers a wide range of proven solutions covering the full spectrum of training, evaluation and certification needs in the field of aviation security.

LOGYx and partners are able to design and implement turn-key project, aiming to the strengthening of local competencies. LOGYx provide to National Civil Aviation Authorities dedicated support in training and certification process, through an integrated approach allowing French know-how transfer to local Authority.

- Site survey.
- Regulatory framework.
- Workforce optimization.
- Pedagogical support and content.
- Capacity building.
- Certification process.
- Quality control.
- ...

► MAIN REFERENCES

- National Police Department (France).
- Ministry of Interior (France).
- Ministry of Foreign Affairs (France).
- Prisons Department (France).
- International Airports (Toulon-Hyères, Limoges).
- French Embassy Madagascar.
- Centre d'Etude et de Renforcement de la Sûreté Aérienne (Liban).
- Hautes Autorités Aéroport LS Senghor (Sénégal).
- ASECNA.
- Ministry of Interior (Tunisie).
- Régie Audiovisuelle (Tunisie).
- International Airport Tunis – Carthage (Tunisie).
- Civil Aviation Authorities (France, Portugal, Sénégal, Togo, Guinée, Gabon, Mauritanie, Comores, Tchad, Mali, Congo, RDC, Burundi, Niger, Bénin, Nigéria).
- Brink's Security Services, Hubsafe Training, BV ...

► MORE INFORMATION



LGX WEB

LGX WEB is an X-Ray simulator designed to assess and improve screeners competencies. Thanks to its intuitive and easy-to-use interface, LGX WEB provides the instructor with unique functionalities to prepare customised training courses.

LGX WEB is a training and assessment tool, simulating the actual working conditions at the airport security checkpoint. Powerful and entertaining, LGX WEB offers to the trainees a clear picture of their detection level, and motivate them to continue developing their competencies.

KEYPOINTS

- 10 000 images of real bags
- Operating environment, universal key-board
- Compliant with EU / ICAO regulation

- Analysis of individual and group results
- Statistics and skills booklet
- Monitoring of regulatory training time
- Automatic production of warnings and reports
- Pedagogical content fully customizable

LOGYx www.logyx.fr/web

Leaflet LOGYx web.



LGX CERTIFICATION

LGX Certification is an online platform, allowing an easy and secure management of a certification process, from the exam application to the issue of the diploma. LGX Certification also includes the support to the examination design, to evaluate as much theoretical as practical knowledge.

KEY POINTS

How to practically combine the regulatory framework, the training objectives of the plan and the monitoring learning achievement, before delivering any work authorisation?

- Assess a level of competences in a fair and reliable manner, and attest acquisition of knowledge by a diploma.
- Warranty, at the end of standardised process, that knowledge and skills acquired are complying with the regulatory requirements.
- Supervise the access to the job, thanks to both qualitative (weighting by competencies) and quantitative-based (numerical, closed selection).

Reference: ICAO Annex 1, LGX WEB

LOGYx www.logyx.fr/certification

Leaflet LOGYx certification.



LOGYx
www.logyx.fr

ASSESSMENT
TRAINING
CERTIFICATION
SUPERVISION

Company leaflet LOGYx.

► CONTACT

LOGYx
174, chemin Ramelet Moundi
31170 Tournefeuille
FRANCE

 **Raphael Dumeurger**
Tel.: +33 (0)5 61 40 82 58
Fax: +33 (0)5 61 40 92 54
Email: raphael.dumeurger@logyx.fr
Mail: info@LOGYx.fr

www.logyx.fr

► **OUR ACTIVITY
IN A FEW WORDS**

- **FOR THE LAST 25 YEARS, MATREX HAS BEEN DESIGNING AND MANUFACTURING BAGGAGE HANDLING SYSTEM, WHICH ARE OPERATING ALL OVER THE WORLD.**

► **PRODUCTS AND SERVICES**

MATREX offers a wide range of equipment for robust and effective baggage processing in many airports:

- Check-in banks (single to triple belt bank + odd size).
- Baggage claim carrousel and manual and automatic sorting carrousel (incl. pusher & parallel sortation unit).
- A wide range of belt conveyors (collectors, injector, cadenceurs, orthogonal...).
- Roller conveyors.

We also include into our supply perimeter, the furniture as check-in, boarding counters and as well as the security checkpoint.

Thanks to its in-house engineering office and manufacturing plant which are both located close to Paris, MATREX combines the highest performance with a good price/quality ratio which have made its reputation up to now.

► **MAIN REFERENCES**

Our major achievements with French and international airports which trust us:

- **Baggage claim carrousel and conveyors:**
 - **France:** Beauvais T2, Roissy 2C + 2E, Montpellier, Brest, Pointe-à-Pitre, Nouméa, Orly Sud, Pierrefond.
 - **Algeria:** Adrar, Constantine, Oran, Jijel, Biskra, El Menea, El Bayadh.
 - **Switzerland:** Genève.
 - **Tunisia:** Djerba, Tozeur.
 - **Congo:** Ouessou, Owando.
 - **Egypt:** Borg el Arab.
 - **Canada:** Québec.
- **At Departure (Check-in banks and conveyors):**
 - **France:** Figari, Pau-Tarbes, Beauvais, Lyon St Exupéry.
 - **Algeria:** Djanet, Oran, Constantine, Biskra, Jijel, Adrar.
 - **Gabon:** Port Gentil.
 - **Canada:** Quebec.

► **MORE INFORMATION**



Matrex Company profile.

Matrex brochure.

► **CONTACT**

MATREX SAS
Z.I. Route de Rousson
89500 Villeneuve sur Yonne
FRANCE
Tel.: +33 (0)3 86 87 01 89
Fax: +33 (0)3 86 96 54 29
Email: mx@matrex.fr

Mohamed EL HAÏBA
Sales Manager for
airport markets
Email: mohamed.elhaiba@matrex.fr
Tel.: +33 (0)3 58 45 15 04
Marc LIEUTAUD - President & CEO
Email: marc.lieutaud@matrex.fr

www.matrex-airport.com

www.matrex.com

► OUR ACTIVITY IN A FEW WORDS

- NAMA (NICE AIRPORT MANAGEMENT), A SUBSIDIARY OF AÉROPORTS DE LA CÔTE D'AZUR, PROVIDES ADVICE AND SERVICES IN TRAINING, CONSULTANCY AND MANAGEMENT CONTRACTS.

► PRODUCTS AND SERVICES

MANAGEMENT ISSUES: Strategic planning, Business plans, Financial models, Performance indicators, Organisation of passenger fees and landing charges, Developing non-aviation commercial revenues, Staff training programmes and HR improvement, Communication Plan.

MARKETING ISSUES: Managing airlines network development, Market development, Airports economical impact and traffic forecast, Airport catchment's area development.

TECHNICAL ISSUES: Master planning, Feasibility studies, Terminal conceptual design, Construction management, Major and minor maintenance schemes.

OPERATIONS ISSUES: Terminal Resources allocation, Airlines Ground Handling, Environmental studies, Business Aviation (FBO).

GENERAL AVIATION: Infrastructure development of general aviation activities and F.B.O operation with our brand name Sky Valet

► MAIN REFERENCES

- **SAN-REMO ALBENGA (Italy):** Management contract.
- **CAMEROON AIRPORTS:** providing assistance with drawing up the strategic plan, audit and training of non aeronautic activities, airport management seminar, finance training, benchmarking of lounges.
- **BASTIA AIRPORT, FRANCE:** Terminal master plan, Car-park master plan, Flight Information Display Systems, Safety procedures training, Route studies.
- **LARNAKA AND PAFOS AIRPORTS (Cyprus):** NAMA is in charge of airport marketing.
- **MARTINIQUE TOURISM COMITEE:** Route Studies, commercial representation, aviation consulting.
- **GUADELOUPE AIRPORT:** Risk mapping, finance consulting, implementation of ATM.
- **SAINT TROPEZ AIRPORT:** Management contract and F.B.O.
F.B.O management in Paris Le Bourget airport, Spain and Portugal with our brand Sky Valet.

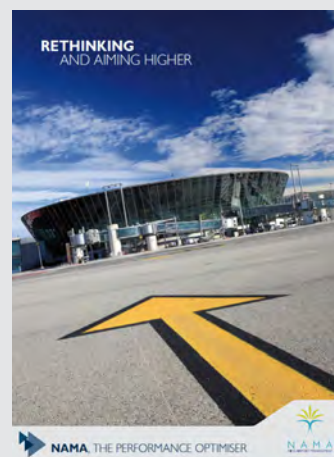
► MORE INFORMATION



NAMA Experts



NAMA References



NAMA Brochure

► CONTACT

NAMA
Aéroports de la Côte d'Azur
BP 3331 - 06 206 Nice Cedex 3
FRANCE

 Jean-François GUITARD
Tel.: +33 (0)4 93 21 44 18
Fax: +33 (0)4 93 21 30 29
Email:

Jean-Francois.GUITARD@cote-azur.aeroport.fr

www.nice-aeroport.fr

www.skyvalet.fr

► OUR ACTIVITY IN A FEW WORDS

- CABLES AND ACCESSORIES FOR ENERGY AND COMMUNICATION NETWORKS IN TERMINALS, HANGARS, CONTROL TOWERS AND RUNWAYS.

► PRODUCTS AND SERVICES

- HV / MV XLPE underground cables and joints.
- LV and MV cables.
- Fire-performance cables.

BAGGAGE HANDLING SYSTEMS

- Flexible halogen-free bus, control and power cables.
- Flexible PVC control and power cables.

AIRFIELD GROUND LIGHTING

- Primary circuit (5 kV).
- Secondary circuit.

COMMUNICATION NETWORK

- LAN / WAN cabling systems.
- Active equipment, networking systems and accessories.
- Optical fiber cables and interconnecting components.

► MAIN REFERENCES

- **China - Beijing:** cables for Baggage handling Systems.
- **Russia - Sheremetyevo T3:** Cables for energy and security network.
- **Kingdom of Saudi Arabia:** King Abdul Aziz International airport - runway lighting.
- **UAE - Abu Dhabi:** Cable for runway airfield lighting.
- **USA - New York:** New Jetblue Terminal - Datacom network.
- **Tunisia - New Enfhida airport:** cable for energy network in the terminal.
- **Korea - Incheon International Airport:** Medium Voltage energy cables, Local Area Network cabling systems, LANsense Intelligent Terminal Management system.
- **Spain - Madrid-Barajas airport:** High and Medium Voltage underground cables, Low Voltage cables for weather beacons, fiber optic cable for the radar control network, cables for baggage handling systems.

► MORE INFORMATION



► CONTACT

NEXANS
8, rue du Général Foy
75008 Paris
FRANCE

 Bernd DUMKE
Email: bernd.dumke@nexans.com

www.nexans.com/airport



► **OUR ACTIVITY
IN A FEW WORDS**

- **SPECIAL DOCKING SYSTEMS.**
- **HANDLING & LIFTING EQUIPMENT FOR AIRCRAFT ASSEMBLY.**
- **MAINTENANCE AND PAINTING.**

► **PRODUCTS AND SERVICES**

COMPETENCIES

- Integration, Mechanical and Electrical Design.
- Calculation, Ergonomics, lean manufacturing.
- Project management.
- Maintenance services, Airbus' first rank supplier.

FOR AIRCRAFT ASSEMBLY

- Development of aircraft assembly lines.
- Jigs and tools for components sub-assembly.
- Access platforms and stations layout, special overhead bridge cranes.

FOR MAINTENANCE OR PAINTING OPERATIONS

- Docking systems, suspended or on-ground, fixed or mobile, for light or heavy maintenance of widebodies or narrowbodies.
- Suspended telescopic platforms, handling and lifting equipment.

FOR ENGINES

- Lifting systems.

AIRCRAFT PARTS MANUFACTURING

- Plant specialized in machining for aircraft parts made in hard metals (stainless steel, titanium, Inconel).

► **MAIN REFERENCES**

AIRCRAFT ASSEMBLY

- **Airbus France:** A350 Complete Final Assembly Line + 13 overhead cranes.
- **Airbus France:** Adaptation of A330 assembly line to NEO version.
- **Airbus Germany:** Access docks for painting of Single Aisle A320 family.

MAINTENANCE

- **Qatar Airways:** Multi-aircraft heavy & light maintenance station.
- **Qatar Airways:** Multi-aircraft nose dock (B777, B787, A350, A330).
- **Oman Air:** Multi-aircraft docks for widebody, narrowbody heavy maintenance.
- **Kuwait:** Maintenance docks and integration of various GSE and GTE.

► **MORE INFORMATION**



► **CONTACT**

REEL S.A.S
69, rue de la Chaux
69450 St-Cyr-au-Mont d'or
FRANCE

www.reel.fr

👤 **Emilie JACQUEMART**
Sales manager
Email: ejacquemart@reel.fr
Tel.: +33 (0)4 72 29 76 59
Mob.: +33 (0)6 34 35 13 49

👤 **Ghislain MOULINIER**
Sales manager
Email: gmoulinier@reel.fr
Tel.: +33 (0)4 72 29 77 41
Mob.: +33 (0)6 27 44 45 71

► OUR ACTIVITY IN A FEW WORDS

- INTEGRATED I.T. SYSTEMS.
- CHECK-IN AND BOARDING SOLUTIONS.
- FLIGHTS MANAGEMENT AND DISPLAY.
- PASSENGERS AND BAGGAGE TRACKING.

► PRODUCTS AND SERVICES

- Cute / Cupps Systems.
- Local DCS.
- Airport Operational Data Base (AODB).
- Flight Information Display System (FIDS).
- Passengers Tracking System.
- Baggage reconciliation and tracking system (BRTS).
- Billing system.
- Airport Information Management System (AIMS).
- Statistics.
- Self boarding.
- Automated eGates.
- Clouds.

► MAIN REFERENCES

200+ references including:

- Paris CDG & Orly.
- Bangkok.
- Montreal.
- Bangalore.
- Roma.
- Nice.
- Toulouse.
- Lyon.
- Dakar.
- Mauritius.
- Sochi.
- Tehran.
- Zagreb.
- Hyderabad.
- Antalya.
- Hanoi.

► MORE INFORMATION

RESA COMMITS ITSELF IN AFRICA!
FIRST I.T. PROVIDER FOR AFRICAN AIRPORTS

Resa in Africa.

PRESENZA E IMPEGNO DI RESA IN ITALIA
PRIMO FORNITORE CUTE PER GLI AEROPORTI ITALIANI

Resa in Italia.

СОВЕРШЕНСТВУЕМ ОБСЛУЖИВАНИЕ ПАССАЖИРОВ

Удаленный контроль | Централизованный мониторинг | Информационное оборудование | Самостоятельный процесс выхода на посадку

РАСШИРЕННАЯ СТАТИСТИКА

Самостоятельная регистрация

Самостоятельная сдача багажа

Контроль обслуживания и обслуживания

Самостоятельный процесс выхода на посадку

All systems powered by

Resa in Russia.

► CONTACT

RESA
Domaine d'Asson
85600 La Boissiere de Montaignu
FRANCE
Tel.: +33 (0)2 51 24 70 00
Fax: +33 (0)2 51 24 70 01

Renaud WILLARD
Sales & Marketing Director
 Nadine CARMELLE
Technical Director
Email: info@resa.fr
Email: marketing@resa.fr

www.resa.fr

► **OUR ACTIVITY
IN A FEW WORDS**

- GLOBAL LEADER IN SECURITY & IDENTITY SOLUTIONS.
- BIOMETRIC PASSENGER PROCESSING & TRACING.
- BORDER CONTROL.
- DETECTION.

► **PRODUCTS AND SERVICES**

- **MorphoPASS:**
Biometric Passenger Tracing and Registered Traveler.
- **MorphoWay:**
Biometric Automated Border Control System (fingerprint, face, iris).
- **Morpho Traveler Analytics Suite:**
Passenger Risk Assessment (iAPI/PNR).
- **Employees identification system:**
Biometric enrolment, background checks, smart card issuance, access control.
- **Morpho Argus:**
Persons of interest identification system through live video feed.
- **Morpho Detection:** Explosives Detection Systems (CT-based EDS, ETD).

► **MAIN REFERENCES**

- Systems deployed in more than 100 countries.
- Automated border control system deployed in 8 international Australian, 3 New Zealand airports, and 2 international French airports.
- Multi-Biometric E-border control – Border counters in Abu Dhabi airport.
- TSA Pre®: Transportation Security Administration (TSA) Universal Enrollment Services (UES) program; 2 million Americans enrolled in the program.
- French PNR Program.
- Biometric employee identification system deployed in Aéroports de Paris (France), in 29 Canadian and 10 major USA airports.
- 2000 EDS and 27000 ETD delivered worldwide (London Heathrow Airport - EDS).
- 45 CTX 9800 - London Heathrow Airport.
- Strategic partnership with key international organizations such as the FBI and Interpol.

► **MORE INFORMATION**



MorphoDetection : CTX9800 - CTX5800.

► **CONTACT**

Safran Identity & Security
11 boulevard Galliéni
92130 Issy-Les-Moulineaux
FRANCE

www.safran-identity-security.com

Tel.: +33 (0)1 58 11 25 00
Email: info@morpho.com



setec
international

SETEC INTERNATIONAL

► OUR ACTIVITY
IN A FEW WORDS

- FEASIBILITY STUDIES.
- PROJECT DESIGN, CONSTRUCTION SUPERVISION.
- PROJECT MANAGEMENT.
- CLIENT ASSISTANCE AND REPRESENTATION.

► PRODUCTS AND SERVICES

SETEC provides a wide range of services and expertise for the airport industry:

- **Strategy:** Traffic / revenue forecasting, Business plans.
- **Project management, Risk management.**
- **Airport infrastructure:** Runways, taxiways, parkings.
- **Access infrastructure:** Roads, trams, people mover.
- **Airport buildings:** Passenger terminals, equipment operation and maintenance.
- **Systems and equipment:** Baggage handling system, ATM/CNS, passenger airbridges, runway lighting.

► MAIN REFERENCES

- **Port-Gentil Airport (Gabon)**
Project management, design and works supervision for the new terminal, the new Presidential Pavillon and airside infrastructures.
- **Marseille-Provence Airport (France)**
Strategy of development of the western zone (100 ha).
- **Mayotte Airport (France)**
Preliminary studies to upgrade the runway to comply with the EASA standards.
- **Nice Airport (France)**
Terminal 2 refurbishment functional and technical program.
- **Roland Garros Airport (Réunion Island)**
Terminal extension program, airside infrastructure owner's assistance.

► MORE INFORMATION



► CONTACT

SETEC
Immeuble Central Seine
42 - 52 Quai de la Rapée
75583 Paris Cedex 12
FRANCE

 Hugo RIVIERE
Airport Director
Tel. 1: +33 (0)1 82 51 42 11
Tel. 2: +33 (0)1 82 51 62 58
Fax: +33 (0)1 82 51 46 35
Email: airports@inter.setec.fr

www.setec.fr

► **OUR ACTIVITY
IN A FEW WORDS**

• **SINCE 1951, SIDES DESIGNS, MANUFACTURES AND MAINTAINS
FIREFIGHTING AND SECURITY VEHICLES.**

► **PRODUCTS AND SERVICES**

Sides offers three ranges of vehicles dedicated to specific applications:

- **Airport:** RIV, SHERPA, SENTINEL.
- **Industry:** STENTOR, SOVEREIGN.
- **Civil defense:** CCF, FIL, FPT, PSE, VIRHD, VSR.

Services : Technical training, service contracts, spares part, vehicle rental, refurbishment of existing vehicles.

► **MAIN REFERENCES**

A fleet of 20.000 vehicles in operation in more than 100 countries.

MAIN AIRPORT REFERENCES

- **EUROPE**
France (Civilian & military aviation, ADP, Vinci, Snc Lavalin), UK (London city, Highlands & Islands), Ireland (DAA, Shannon Airport), Spain (AENA), Russia (DME).
- **ASIA and MIDDLE-EAST**
United Arab Emirates (ADAC), Pakistan, Cambodia, Japon.
- **AFRICA**
Senegal (ASECNA), Tunisia, Congo, Libya, Algeria.

► **MORE INFORMATION**



Fire fighting vehicle.



► **CONTACT**

SIDES
182, rue de Trignac
B.P. 146
44603 Saint Nazaire Cedex
FRANCE

 **Laurent Laclede**
Business Development Manager
Email: contact@sides.fr
Tel.: +33 (0)2 40 17 18 00
Fax: +33 (0)2 40 17 18 03

www.sides.fr

► OUR ACTIVITY IN A FEW WORDS

- DESIGN AND IMPLEMENTATION OF RADIOCOMMUNICATIONS EQUIPMENT DEDICATED TO AIR TRAFFIC CONTROL AND MARITIME SERVICES.

► PRODUCTS AND SERVICES

- Radiocommunication system RADIO - COM
 - Radios VHF, UHF and V/UHF (TWR & ACC).
 - Mobiles and portable radios.
 - Remote control and switching system...
 - Monitoring system.
- NDB - NAVAIDS
 - Locators.
 - Offshore NDB.
 - Transportable.
- GBAS – NAVAIDS
 - VHF Data Broadcast (Tx / Rx).
 - Antennas H-POL.
 - Airborne DGPS VHF Receiver.

► MAIN REFERENCES

- DGA Armée de l'air, Marine, Aviation Légère de l'Armée de Terre.
- Thales Group.
- INEO.
- Thales-Raytheon System.
- Total, Shell.
- Air France.
- Skyguide (Swiss).
- Incheon Airport (Seoul International airport).
- DGAC/DSNA/DTI (France).
- AENA (Aeropuertos Españoles y Navegación Aérea).
- ASECNA (Agence pour la Sécurité de la Navigation Aérienne en Afrique et à Madagascar).
- ONDA (Office national des aéroports Maroc).
- General Dynamics (FAA).
- Honeywell.
- SNC (Sierra Nevada Corporation).

► MORE INFORMATION



► CONTACT

TELERAD
2 Av de la Butte aux Cailles
64600 Anglet
FRANCE

 Vincent CARTIGNY
Tel.: +33 (0)5 59 58 55 00
Fax: +33 (0)5 59 58 55 01
E-mail: v.cartigny@telerad.fr

www.telerad.fr

► **OUR ACTIVITY
IN A FEW WORDS**

- THALES IS GLOBAL TECHNOLOGY LEADER FOR THE DEFENCE & SECURITY AND THE AEROSPACE & TRANSPORT MARKETS.

► **PRODUCTS AND SERVICES**

AIR TRAFFIC MANAGEMENT

Thales offers a full range of Air Traffic Management solutions:

- Automation solutions with TopSky – ATM Solutions.
- Surveillance solutions combining radar ADS – B and multilateration technologies.
- Complete Navigation Aids Portfolio.
- Aeronautical Information Systems.
- Training and Simulation Solutions.

AIRPORT SECURITY SYSTEMS

Thales implements integrated security solutions and have recently designed Thales' Airport Operation Control Center (TAOCC), a unique orchestration control layer for spreading useful information in a quicker, safer and proper way by introducing a single supervision and integration framework.

► **MAIN REFERENCES**

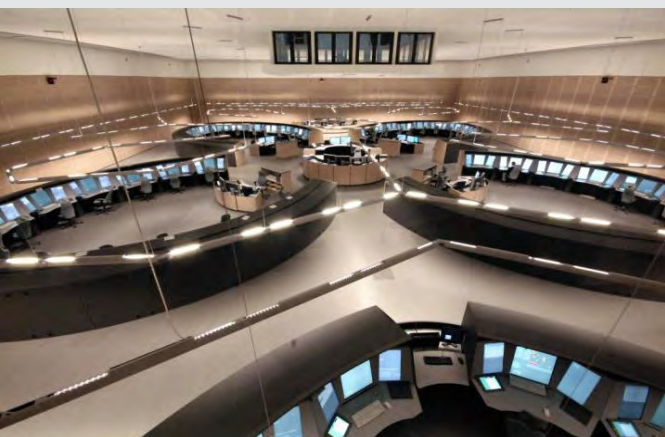
ATM REFERENCES

- **MARSHALL:** UK MOD programme to deliver Military ATM Systems & Services over 100 MOD locations.
- **China/Shanghai:** modernize ATC systems & tower automation at both major airports.
- **Thailand:** en-route air traffic control centre, 6 approach control centres, 41 regional airport towers.
- **Iran:** air traffic control radars for 3 Iranian airports.
- **US Air Force NavAids Modernization:** Replacement of the DVOR and TACAN, and delivery of deployable ILS.
- **AMHS COCESNA:** TopSky-AMHS & TopSky-AIM handles AIM and AMHS for Central America.

AIRPORT SECURITY SYSTEMS

Safety & security systems, airport IT, Building Management System, communications & networks integration for Doha, Dubai, King Shaka, Paris airports.

► **MORE INFORMATION**



ATC Center Belgium.



Remote tower.

► **CONTACT**

Air Traffic Management
Thales Air Systems
3, avenue CharlesLindbergh
94628 Rungis Cedex
FRANCE

Patrick LEFEVRE
ATM Business Development
Tel.: +33 (0)1 79 61 17 69
Email: patrick-jf.lefevre@thalesgroup.com

www.thalesgroup.com

► **OUR ACTIVITY
IN A FEW WORDS**

- **VECTRA PROVIDES AIRPORT MANAGERS WITH NON-DESTRUCTIVE SURVEYING TECHNIQUES AND MEANS OF DIAGNOSIS AND MONITORING.**

► **PRODUCTS AND SERVICES**

Vectra, a NextRoad company, French leader in Road Engineering (RE), assists airport managers in the follow-up of pavement quality and durability through 2 activities:

- by manufacturing and selling non-destructive road inspection equipment (IMAG, HWD, etc) via the equipment department;
- as an expert of airport pavement conditions, by conducting via its RE department various surveys: Pavement Condition Index (PCI), Longitudinal Evenness (LE), Skid resistance (LFC), Bearing Capacity (HWD), Pavement Classification Number (PCN).

Qualys tpi, a NextRoad company, assists airport managers by carrying out external control of pavement (either bituminous or concrete).

► **MAIN REFERENCES**

FRANCE

- Etain-Rouvres - Military base: HWD, optimised PCN & PCI surveys (2017);
- Strasbourg - Entzheim: LFC surveys (2017);
- Lyon - Saint Exupéry & Bron: external control (2014-2017);
- Corse - Ajaccio, Bastia, Calvi, Figari: LFC survey (2017);
- Clermont-Ferrand - Aulnat: external control (2016-2017);
- Grenoble: PCI, PCN & HWD surveys (2016);
- FRENCH ANTILLES - St Martin & St Barthélemy: LFC survey (2017);
- FRENCH POLYNESIA - Bora Bora, Raiatera et Rangiroa: LFC & LE surveys (2016);

AFRICA

- IVORY COAST - Abidjan: external control (2017);
- BURKINA FASO - Ouagadougou: PCN survey (2017);
- CAMEROON - Douala: external control(2016-2017);
- TUNISIA - Djerba: LE survey (2015).

► **MORE INFORMATION**



NextRoad HWD equipment



Vectra profilometer in Papeete in French Polynesia



Video of Vectra IMAG carrying out LFC measures.

► **CONTACT**

Vectra Head Office
34 rue de Panicale
78320 La Verrière

Qualys Head Office
8 rue des Moulissards
21240 Talant

👤 Lancer LOUA (Vectra)
Email: lancer.loua@vectra.fr

👤 Pierre Fontaine (Qualys)
Email: etudes.qualystpi@gmail.com
Tel. (Std): +33 (0)1 30 66 01 75 (Vectra)
Tel. (Std): +33 (0)3 80 56 31 73 (Qualys)

www.vectrafrance.com
www.qualys-tpi.fr

► **OUR ACTIVITY
IN A FEW WORDS**

- **AS ONE OF THE TOP 5 LEADER OF ITS INDUSTRY, VINCI AIRPORTS MANAGES A WIDE NETWORK OF AIRPORTS, FROM DESIGN TO OPERATIONS.**

► **PRODUCTS AND SERVICES**

VINCI Airports is an international airport operator which manages the development and operations of airports based on its global expertise and an integrated model. The total traffic will reach more than 120 million passengers in 2016.

KEY FIGURES

- 12 airports in France.
- 10 airports in Portugal.
- 3 airports in Cambodia.
- 1 airport in Chile.
- 123 million passengers in 2016.
- 820 million revenue in 2015.
- 8,500 employees.

► **MAIN REFERENCES**

- **JAPAN:** In April 2016, VINCI Airports took over the operations of Kansai and Osaka international airports, which form Japan's second largest airport hub.
- **DOMINICAN REPUBLIC:** In April 2016, VINCI Airports took over the operation of 6 airports. Total traffic: 4.6 million passengers in 2015.
- **CAMBODIA:** For over 20 years, VINCI Airports develops the activities of Phnom Penh, Siem Reap and Sihanoukville airports.
- **PORTUGAL:** Since 2013, VINCI Airports manages 10 airports including Lisbon's. Total traffic: 38.9 million PAX in 2015.
- **CHILE:** On April 2015, the consortium Nuevo Pudahuel, formed by VINCI Airports, ADP and Astaldi was awarded a 20-year concession for Santiago's airport.
- **FRANCE:** VINCI Airports' network includes 12 airports in the country.

► **MORE INFORMATION**




Built on an artificial island in Osaka bay, Kansai Airport in Japan is an international hub with strong growth potential.

VINCI Airports contributed to the exceptional growth of Portuguese airports through a proactive approach to traffic development and the renovation of commercial areas.



► **CONTACT**

VINCI AIRPORTS
12, rue Louis Blériot
CS 30071
92506 Rueil-Malmaison Cedex
FRANCE

 **Tanguy BERTOLUS**
Technical Director
Tel.: +33 (0)1 47 16 31 19
Email: tanguy.bertolus@vinci-airports.com

www.vinci-airports.com

► **OUR ACTIVITY
IN A FEW WORDS**

- **CHECKING / HAND LUGGAGE CONTROL / HOLD LUGGAGE CONTROL.**
- **SERVICES: ENGINEERING, TRAINING, MAINTENANCE, RENTAL.**

► **PRODUCTS AND SERVICES**

We are considered the reference for high technology security solutions dedicated to Civil Aviation, Ports, Nuclear sites, as well as numerous Public and Private Sector applications, in France and in a large region abroad.

With high quality Service as a core stone of reliability, we ensure sustainable partnerships with our customers.

► **MAIN REFERENCES**

French regional airports
installation and service of trace detection systems De-Tector.

ONDA - Airports in Morocco
Installation and service of 15 body Scanner PROVISION 2 and Standard 3 equipment.

► **MORE INFORMATION**



ClearScan EDS Cabin – CT 3D Image.



Intellicore®: Integrated Check Point Supervision and Management software.



Vision: The Security Reference.

► **CONTACT**

VISION
Parc de Haute Technologie
13 rue Alexis de Tocqueville
92182 ANTONY CEDEX
FRANCE

 **Stéphane WATTEZ**
Directeur commercial
E-mail : wattez@vision.com
Tel.: +33 (0)1 56 45 19 00 - Mob.: +33 (0) 6 12 17 78 44
Fax: +33 (0) 1 56 45 19 20
E-mail: vision@vision.com

www.vision.com

► **OUR ACTIVITY
IN A FEW WORDS**

- XEROX PARKING IS THE LEADER IN THE MANUFACTURING AND INSTALLATION OF CAR PARK MANAGEMENT SYSTEMS FOR OPERATORS WORLDWIDE.

► **PRODUCTS AND SERVICES**

Xerox Parking offers complete car park management solutions including equipment, management system, installation and on-site maintenance. Our solutions include a series of centralized applications designed to help car park operators optimize their costs and maximize their revenues:

- Integration with airport systems.
- Centralised web based monitoring.
- Subscriber management.
- Credit card payment.
- NFC technology.
- Ticketless applications.
- Parking guidance.
- Integrated ANPR.
- Business analytics.
- Customer profiling...

Today, Xerox have installed more than 1500 car parks in the world.

► **MAIN REFERENCES**

- **Cayenne**: replacement of the existing car park.
- **Geneva**: complete car park management system including a centralized web based hypervisor (20 parks, 7000 spaces).
- **Toulouse**: complete car park management system (11 parks, 13000 spaces).
- **Roland Garros, La Reunion**: complete car park management system (10 parks, 5000 spaces).
- **Las Palmas, Canarias**: complete car park management system (8 parks, 2200 spaces).
- **Glasgow**: ticket less passenger drop off solution and forecourt management system.
- **Edinburgh**: ticket less passenger drop off solution.
- **Bristol**: complete car park management system (10 parks).
- **Luton**: ticket less passenger drop off solution.

► **MORE INFORMATION**



Xerox video.

► **CONTACT**

XEROX BUSINESS SOLUTIONS
250, avenue des Grésillons
92600 Asnières
FRANCE



Olivier Warrot
Tel.: +33 (0)6 14 18 39 58
Tel. : +33 (0)1 41 32 71 03
Email: parking.france@xerox.com

www.xerox-parking.com

► OUR ACTIVITY IN A FEW WORDS

- ZODIAC AEROTECHNICS PRODUCTS OFFER A FULL RANGE OF EQUIPMENTS FOR AIRPORT REFUELING APPLICATIONS: HYDRANT NETWORKS, AIRCRAFT REFUELLERS AND FUEL DISPENSERS.

► PRODUCTS AND SERVICES

For Hydrant networks:

- Hydrant pit valve fully compliant with API 1584.
- 24" sealed hydrant pit with riser and top cover.

For aircraft refuellers and fuel dispensers:

- Quick-disconnect couplers.
- In line pressure control valve.
- regulated hose end coupling and adaptors.
- Automatic shut-off bottom loading system.

ZODIAC AEROTECHNICS also supports its customers with:

- Spare parts.
- Technical support from the factory or on-site.
- Trainings.

Arresting systems

- 4th generation jet blast resistant EMASMAX arrestor bed
- Obstacle mapping type A, B, under eTOD, AIXM...

► MAIN REFERENCES

- **France:** Roissy CDG, Orly.
- **Europe:** Genève, Manchester, Athènes, Varsovie, Heathrow, Oslo, Rome.
- **Africa:** Marrakech, Comores, La Réunion, Douala, Garoua, Rabat, Conakry, Kigali, N'Djamena, Agadir, Dar-es-Salam, Boufarik.
- **Russia:** Moscou, Novossibirsk.
- **Asia:** Damas, Dubai, Beyrouth, Abu-Dhabi, Jeddah, Bagdad, Bassora, Karachi, Colombo.

► MORE INFORMATION



Commercial brochure.



Corporate movie.

► CONTACT

ZODIAC AEROTECHNICS
10 Bd Sagnat
42230 Roche la Molière
FRANCE
E-mail: zenith@zodiacaerospace.com

www.zodiacaerospace.com

**FOR MORE INFORMATION,
PLEASE VISIT**

**www.proavia.com
info@proavia.com**



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