Airport security
Integrated solutions to secure major international air transport hubs
For more than 15 years, Thales has been making some of the world’s major airports safer for all. A global leader in large-scale integrated systems and services, Thales offers intelligent joined-up security and operation solutions to better protect and manage public infrastructures and meet the evolving needs of operators.

The world’s largest airports are the size of small cities, covering tens of square kilometres and handling up to 200,000 people daily.

Many such facilities, however, have no comprehensive structure to ensure the highest possible levels of security.

Today, when an accident or incident occurs, much depends on the ability to exchange information and coordinate the actions of the various players involved – airport operators, security forces, government agencies, first responders and airline personnel.

**Thales’s response**

Thales ties together the various security and telecommunication systems in place to ensure increased security, reduced response times and optimised business operations.

Thales turnkey solutions for Special Airport Systems enable real-time coordination of all security operations between stakeholders, through the integration of security, telecommunications, public information and airport IT systems and an overall management layer based on its core business specific applications.

**Thales’s added value**

**For airport operators**

- Enhanced operations through integrated management of security and communication
- Improved prevention, detection and response to security and safety threats

**For engineering, procurement and construction companies**

- World-class, credentialed technologies
- Project management and technical expertise in security / communications integration, acting as lead system integrator to reduce overall implementation risk

**Thales’s solutions**

The Airport Operations Control Centre (AOCC) is based on a “system of systems” approach to airport operations and security to address the growing complexity of today’s airport environment. Tailored to the needs of airport operators and other stakeholders, the AOCC is an intelligent, integrated system that manages security supervision, crisis management and health monitoring systems to monitor airport operations in real-time based on key performance indicators.

**Integrated Security Management (Global Situation Awareness)**

Integrated security management optimises anomaly detection, alarm management and response procedures to resolve anomalies with maximum efficiency.

**Integrated Operations Management (CDM - Collaborative Decision Making)**

Thales’s AOCC solution follows Eurocontrol recommendations for information sharing, unified operator views, decision support, process optimisation and automation of standard operating procedures, reducing the operational impact of security-related events.

**Key figures**

- 3 major international hubs protected by Thales’s solutions: Dubai (United Arab Emirates), Doha (Qatar) and Durban (South Africa)
- 24 fully integrated electronic systems deployed by Thales to ensure the security of King Shaka International Airport in Durban, opened in time for the 2010 FIFA World Cup
- Thales is responsible for the 24/7 surveillance system at Singapore Changi Airport, comprising 301 videosurveillance cameras and 27 control stations
Monitoring of key performance indicators and dispatching of information to stakeholders and passengers

The AOCC system gathers information to provide stakeholders with relevant statistics, operating parameters and event status reports in real time. It is used as a dashboard for airport operations, providing decision support and consolidating actions to optimise operating costs and enhance passenger satisfaction.

Boarding Pass Control System

The Boarding Pass Control System (BPCS) is a Thales solution which simplifies passenger access to airport gates, improving the safety and security of operations. The BPCS server is connected to the airport information systems and to the flight information display.

Operators use a mobile wireless device to read the barcode on passenger boarding passes. The system then automatically assigns a priority (fast access) code to each pass to avoid queues during boarding.

The system provides key performance indicators and reports to help operators to analyse passenger flow distribution and optimise the workload of security staff. The solution is fully integrated in the Thales AOCC framework, and already in operation in Fisa Airport, Italy.

Thales’s key references

Dubai International Airport, United Arab Emirates

70 million passengers annually, 10,000 access control points, 1,500 videosurveillance cameras. Thales installed an ultra-modern communication and security solution that brings operators and passengers the highest possible levels of safety and security.

Doha International Airport, Qatar

50 million passengers expected annually by 2015, 1,200 access control points, 1,000 videosurveillance cameras. The consortium formed by Thales and ARINC supplies data security systems and telecommunications infrastructure. Thales is responsible for complete design and delivery of the integrated safety and security system as well as all safety and security systems throughout the airport.

King Shaka International Airport, Durban, South Africa

A brand-new airport opened in time for the 2010 FIFA World Cup. Thales provided Special Airport Systems engineering as well as integration of communication, information, safety and security systems.

Singapore Changi Airport, Singapore

37 million passengers and 1.66 million tonnes of freight in 2009. Thales has been awarded a contract to provide 24/7 videosurveillance of aircraft parking bays, taxiways and runways, combining a geographic information system and video analytics.

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