

WORLDWIDE LEADER IN SEQUENCING AND METERING TOOLS

- ▶ At 28 airports worldwide, with world's first operational DMAN tool at Paris-Charles-de-Gaulle Airport
- ▶ Decision support tools for airspace or surface traffic management
- ▶ Standalone system or integrated into ATC Systems
- ▶ Increases collaboration among stakeholders and supports CDM process
- ▶ Used in SESAR operational evaluations, including I4D arrival management
- ▶ Compliant with ICAO ASBU Block 0 and Block 1

AEROSPACE

Maestro

AMAN / DMAN solution for Collaborative Airspace and Surface management





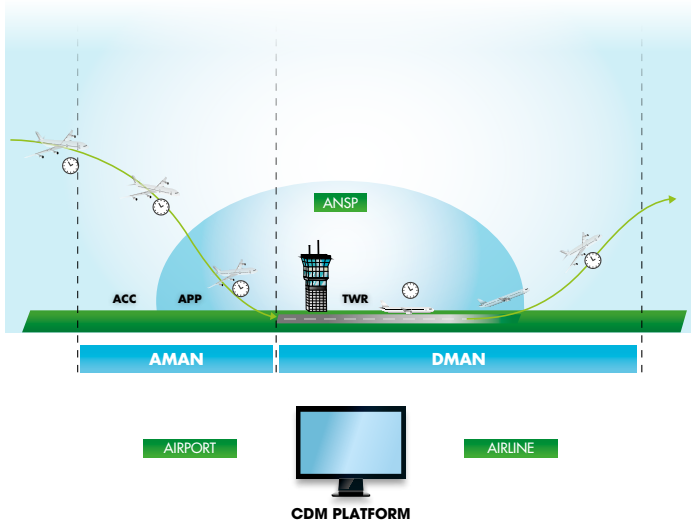
AEROSPACE

Maestro

AMAN / DMAN solution for Collaborative Airspace and Surface management

BENEFITS FOR ANSP AND AIRSPACE USERS

- Optimum utilization of airspace and runway capacity
 - **10% capacity increase in Copenhagen.**
 - **28 arrivals per hour at Nice Airport (vs 26 without Maestro)**
- Minimized delays both in nominal and degraded conditions:
 - **punctuality up by 10% for departures at Paris-CDG Airport.**
- Reduction of fuel consumption and gas emissions:
 - **14 T of fuel and 44 T of CO2 emissions per day saved for departures at Paris-CDG Airport.**
 - **7M AU\$ of fuel saved for airlines after AMAN deployment in Sydney for the 2000 Olympic Games.**
- Reduction of the controllers' workload and harmonization of working methods between Approach and En-route.
- Optimization of departure/arrival process: information is shared with external systems to ensure collaboration between all actors.



CAPABILITIES

- An integrated AMAN/DMAN solution compliant with the airport collaborative decision making (A-CDM) process.
- A multi-airport and multi-runway decision-support tool for one or several Terminal Approach Areas (TMA).
- System for Approach, En-Route and Tower controllers, Apron / Ramp operators and AOC operators with the computed sequence timeline and the control actions to properly expedite the traffic, including what-if function.
- Collaborative solution with airlines: sharing statistics of traffic load, delays, and handling preferences and priorities (Swap).

SERVICES

- Training delivered by former air traffic controllers and experts ensuring your operational and technical staff are quickly autonomous.
- The controller and human factor team is able to tune Maestro to ensure compliance to your needs and environment.
- Training and experimentations on various platforms (e.g. Scansim, Eurocontrol).

THE FUTURE IS A REALITY FOR MAESTRO

- Compliant with ICAO ASBU Block 0 and Block 1.
- Used in the SESAR I4D operational test flight in 2012.

REFERENCES

- MAESTRO AMAN is used worldwide including Paris-CDG, Johannesburg, Sydney, and Bangkok.
- MAESTRO DMAN in operation in Paris-CDG, the busiest European airport in aircraft movements.

ARCHITECTURE

- Open architecture, fully integrated with TopSky – ATM Solutions and able to integrate 3rd party systems.
- Scalable and reliable operation by allowing a dual Linux based server system to work in Normal/Hot-standby mode.
- Web architecture to support exchanges with airlines.

AUSTRALIA

Thales Australia Limited
The Thales Australia Centre
WTC Northbank Wharf
Melbourne, VIC 3005
Tel. +61 (0)3 8630 4000

FRANCE

Thales Air Systems SAS
3, avenue Charles Lindbergh
BP 20351
94628 Rungis cedex
Tel. +33 (0)1 79 61 40 00

GERMANY

Thales Electronic
Systems GmbH
Lilienthalstrasse 2
70825 Korntal-Münchingen
Tel. +49 (0)7 11 86 03 20

ITALY

Thales Italia S.p.A.
Via E. Mattei, No.1
20064 Gorgonzola (MI)
Tel. +39 02 950 951

UNITED KINGDOM

Thales ATM Limited
Minerva building,
Manor Royal Crawley,
West Sussex RH10 9HA
Tel. +44 208 391 – 6277

USA

Thales ATM
2733 South Crystal Drive
Suite 1200
Arlington, VA 22202
Tel. +1 703 838 9685