

by Atech

Makron

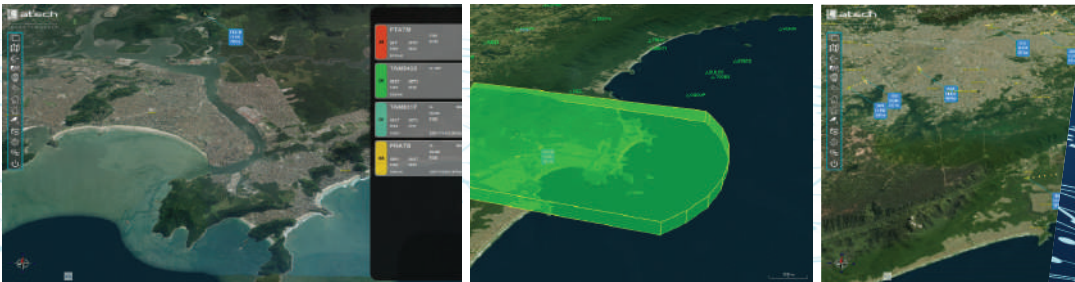
AIR TRAFFIC MANAGEMENT

AFIS
COSMOS

INTEGRATING FLIGHT INFORMATION SERVICES ANYWHERE THE AVIATION IS

RAFIS - COSMOS system centralizes meteorological information, flight plans and airspace surveillance data for several aerodromes in a single platform. It offers resources specifically designed to provide flight information services as an AFIS (Aerodrome Flight Information Service) for aerodromes at remote locations, optimizing the use of specialized operational personnel, characterizing the R-AFIS (Remote Aerodrome Flight Information Service).

COSMOS is part of Makron, a complete set of ATM solutions developed by Atech, an Embraer Group Company, bringing together decades of expertise developing high technology solutions supporting decision-making processes.



GRUPO EMBRAER

SIMPLIFYING OPERATIONS BY INTEGRATING AERONAUTICAL INFORMATION

COSMOS optimize the situational awareness of flights and offers integrated graphical information of flight plans, procedures, weathers conditions and airspace surveillance features. Everything is presented in an intuitive single user interface.

COSMOS empowers remote locations by providing services simultaneously at multiple aerodromes, remotely, from the same single platform. This capability avoids the need of having multiple employees physically allocated at each aerodrome, therefore, characterizing an effective R-AFIS (Remote - Aerodrome Flight Information Service). Even in the absence of RADAR tracks, COSMOS can simulate the flight path based on a received flight plan, increasing situational awareness, operational capacity and safety at the aerodrome.

MEET MAKRON RAFIS – COSMOS AND ITS BENEFITS TO YOUR OPERATION

With a single user interface, Makron RAFIS – COSMOS users can easily access the aerodrome geographical mapping, as well as the landing and take-off procedures to monitor all flights around the aerodrome with an integrated view. In order to fulfill these operational functions, COSMOS has a georeferenced graphical interface, allowing 2D or 3D visualizations.

The system can also be connected to the aeronautical communications network to integrate online flight planning, meteorological information, as well as data from radars or other surveillance sensors.

TECHNICAL DESCRIPTION

Integration with air traffic control radar network; extrapolation of aircraft positioning in case of loss of radar detection; creation of simulated traffic according to the flight plan and/or the planned landing or take-off procedure; automatic correlation between flight plans and aircraft detected by the radars; electronic view of flight plans; multi-layer filters for aeronautical information visualization optimization; processing of meteorological information (METAR, TAF, SPECI and others); importing geographic data into AIXM 5.1; provision of flight information services to multiple aerodromes simultaneously and remotely; integration with remote camera systems of aerodromes