

by Atech

Makron
AIR TRAFFIC MANAGEMENT

AMHS
CYGNUS

EFFICIENTLY COMMUTING AERONAUTICAL MESSAGES AROUND THE WORLD

Makron AMHS – CYGNUS provides ATS messaging services for multiple interconnected subscribers 24x7, including systems at the ATC centers, tower systems, military operations control centers, civilian and military AIS, ATFM systems, SAR organizations, NOTAM and meteorological vigilance systems. CYGNUS system can also connect many other users and information systems from multiple organizations all over a country or a flight information region.

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



GRUPO EMBRAER

HANDLING AERONAUTICAL MESSAGES FOR A GLOBAL INTEGRATED ATM

CYGNUS complies with international standards for ATS messaging systems. It is also fully integrated into other Makron family products, such as ATC – SAGITARIO and AFTM – SKYFLOW, assuring complete and simple implementation to any ANSP around the world looking for a modern infrastructure platform for a complete ATM solution.

INTEGRATING AERONAUTICAL MESSAGES FOR A SAFER GLOBAL AVIATION

CYGNUS is already in operation in Brazil. The system requirements were defined by DECEA, the Brazilian ANSP, according to the air traffic demands expected to Brazilian airspace. The system now copes with an overall daily processing volume of 750.000 messages, with peak capacity of 65.000 messages per hour.

This capacity is provided by an infrastructure of servers and workstations, network assets and other resources, responsible for receiving, processing, switching and routing all aeronautical messages, with a storage area network (SAN) that provides redundant storage solution and synchronous backup features.

CYGNUS is based on an integrated platform that includes high availability modern hardware infrastructure and dedicated application software developed by Atech, including intuitive user interface to the provide an easier composition of aeronautical messages for the multiple operational organizations engaged.

