



Expodefensa 2017

International Defense and Security Trade Fair

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Atech brings built-in mission systems and border control solutions to Expodefensa

The company's expertise encompasses from development and production to future support for system updating and evolution

Atech, a company of Grupo Embraer, will be at Expodefensa, a fair taking place from December 4 to 6 in Bogota, Colombia. The company will be at the booth of the Brazilian Defense and Security Industries Association (ABIMDE) showcasing products and services for built-in mission systems and border control systems, which integrate Arkhe Mission & Combat.

Arkhe Mission & Combat is a set of built-in systems developed on a state-of-the-art platform for tactical missions with full integration of sensors and systems of aircrafts and ships. The Arkhe Mission & Combat systems can also be customized for different operational environments.

Regarding Arkhe Mission & Combat, Atech has a history of deliveries and a robust assortment of development, production, integration and evolution for built-in mission systems. The highlights are four important projects completed for the Brazilian Armed Forces.

The first is the development project of the Gripen Brazilian fighter, versions E and F, for the Brazilian Air Force (FAB). Responsible for the ground mission simulation, training and planning, the Atech team has been in technology transfer programs at the Saab headquarters in Sweden.

In order to develop the mission planning system (Mission Support System – MSS), the Atech team had to acquire strategic knowledge for the operation of the entire aircraft, navigation systems, mission systems, sensors and even the weaponry system. It is a vital system for planning the missions to be executed as well as providing tools for the analysis of data collected during execution.

“Even though it is a land system, Atech’s work on the Gripen program is highly complex. In addition, we are assimilating technologies that are considered the most advanced in the market today. Such technologies are dedicated to this aircraft and quite robust, and now they are part of the national domain,” states director Giacomo Staniscia.

Atech will be responsible for the mission-training simulator of the Gripen aircraft and for emulating all of the aircraft’s systems, thus enabling pilot training in flight missions.

“It was crucial that we absorbed the simulator technology for the conception of the aircraft final version,” says Staniscia.

Besides Gripen, Atech is taking part of the H-XBR program. For the H225M naval helicopter, Atech has developed the TDMS data management tactical system in partnership with Airbus Defesa. The company is also producing all the tactical consoles for the mission operation within the aircraft.

For that program, Atech has obtained in a record time the NBR 15100 certification for the full supplying cycle of a built-in system, including the manufacturing phase, which enables the company to work on other similar programs.

“Atech operates in the entire life cycle of the system, from its conception to its evolution years after implementation and use. That is thanks to the fact that we collaborate with the Armed Forces to give them the necessary support for ensuring technological advances. In order to do that, we are continually applying the most modern technologies,” Staniscia comments.

Two other important strategic projects for Brazil that have a direct participation of Atech concern the E99 and P-3AM aircrafts.

For the E99 air surveillance aircraft, which caters to the SIVAM program (Amazon Surveillance System), Atech will develop in partnership with Saab the built-in mission system as well as the land systems for planning, briefing, debriefing and mission analysis. As for the P-3AM, the sea surveillance aircraft features the built-in mission system and other support and planning systems for land missions—in that case, in collaboration with EADS CASA.

“Our expertise in the defense segment allows us to offer solutions with the most advanced technologies in sync with the needs of national and foreign Armed Forces. Atech is responsible for developing the entire Brazilian system for air traffic management and national defense. It already exports a variety of solutions, which makes us one of the main companies in the defense industry around the world,” concludes Vinicius Meng, from the Defense Business Development division of Atech.

About Atech (www.atech.com.br) — A well-known Brazilian system developer and integrator, Atech has always focused on innovation in order to help transform Brazil. With its unique expertise in system engineering and technologies for situational awareness and decision-making support, Atech develops innovative solutions in the segments of air traffic, command and control systems, built-in systems, intelligence, cyber security, instrumentation and control systems, simulators and logistics. Certified as a Strategic Defense Company (EED) by the Brazilian Ministry of Defense, Atech develops dual technologies, offering a wide range of products and services for both Defense and civilian segments.