



PRESS RELEASE

Madrid, 7 March 2018

DSNA, Groupe ADP and Thales present HOLOGARDE a unique long-range solution for protecting sensitive sites from malicious drones

Drone traffic in the vicinity of airports is growing exponentially. The European Aviation Safety Agency (EASA), identified in its latest report over 1,400 drone incidents in Europe during 2016, compared to 606 incidents between 2011 and 2015. Airports, like other sensitive sites, are locations for which safety and security must be of the utmost importance.

In response to this imminent need to protect sensitive sites, DSNA, Groupe ADP, and Thales have decided to pool together their expertise for the development of the solution HOLOGARDE, presented during the World Air Traffic Management Congress held in Madrid on March 7, 2018.

The HOLOGARDE solution is currently deployed at Paris-Charles de Gaulle airport, one of the 10 largest airports in the world, after a successful experimental installation at the International Paris Air Show at Paris-Le Bourget in June 2017, which saw the detection, tracking and identification of 131 test drones at a distance of 5 km during the week-long event.

Beyond the pioneering technology, HOLOGARDE relies on the partnership between these key stakeholders representing industry, air navigation services and airport operations to provide diverse perspective to the solution's multidimensional ConOps. The result of this collaborative work: a solution tested, enhanced and proven by working closely with end users, available for delivery to clients worldwide before the end of 2018.

"The agile and robust development process of HOLOGARDE integrates next-generation sensors into an innovative control system. HOLOGARDE leverages the expertise of air navigation together with our industry and airport partners, to deliver an operational solution capable of protecting against undesired drone intrusions," explained Maurice Georges, Director DSNA.

"The development of drones for complex use is an opportunity, as shown by their daily use at Groupe ADP within the airports we manage (inspection of runways, aircraft bridges, thermographic analysis, monitoring of technical galleries, etc.) Their development, especially in proximity to sensitive areas like runways, nevertheless presents risks that must be controlled. HOLOGARDE positions us at the forefront of global innovation in aeronautics, combining the expertise of Groupe ADP and French civil aviation, with the technology of Thales and Toulousian start-up Innov'ATM," highlighted Edward Arkwright, Deputy CEO for Groupe ADP.

"We help our customers deal with the intrusion of malicious drones within the complex environment of their infrastructures, enabling quick, effective decisions at every decisive moment. Thales's takeover of Aveillant last November allows the solution HOLOGARDE to integrate world-leading technology in the field of holographic radar. We are working today to further increase the range of HOLOGARDE both with our radar and means of neutralization," indicated Serge Adrian, Thales Senior Vice President for surface radar activities.

For more information, please visit: www.hologarde.com

About DSNA

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DSNA (Direction des Services de la Navigation Aérienne), the French Air Navigation Service Provider, handled 3.1 million flights in 2017 and recorded the traffic peak day record in Europe: 11,016 flights on 7 July 2017.

Key Data: 5 ACCs & 75 Control Towers & 3 overseas regional structures / Staff: 7,500

About Groupe ADP

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Groupe ADP develops and manages airports, including Paris-Charles de Gaulle, Paris-Orly and Paris-Le Bourget. In 2017, the group handled through its brand Paris Aéroport more than 101 million passengers and 2.3 million metric tonnes of freight and mail at Paris-Charles de Gaulle and Paris-Orly, and more than 127 million passengers in airports abroad through its subsidiary ADP International. Boasting an exceptional geographic location and a major catchment area, the Group is pursuing its strategy of adapting and modernizing its terminal facilities and upgrading quality of services; the group also intends to develop its retail and real estate businesses. In 2017, group revenue stood at €3,617 million and net income at €571 million.

Registered office: [1, rue de France, 93 290 Tremblay-en-France](https://www.adp.fr/en/locations). Aéroports de Paris is a public limited company (Société Anonyme) with share capital of €296,881,806. Registered in the Bobigny Trade and Company Register under no. [552 016 628](https://www.adp.fr/en/locations).

www.groupeadp.fr

About Thales

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The people we all rely on to make the world go round – they rely on Thales. Our customers come to us with big ambitions: to make life better, to keep us safer.

Combining a unique diversity of expertise, talents and cultures, our architects design and deliver extraordinary high technology solutions. Solutions that make tomorrow possible, today. From the bottom of the oceans to the depth of space and cyberspace, we help our customers think smarter and act faster - mastering ever greater complexity and every decisive moment along the way.

With 64,000 employees in 56 countries, Thales reported sales of €14.9 billion in 2016.

About Innov'ATM

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Innov'ATM is a startup company from Toulouse which was created in 2014 to offer solutions to optimise air traffic management and airport resources, as well as solutions for the integrations of drones into the airspace. Using Artificial Intelligence algorithms, Innov'ATM created SkyKeeper Suite®, a modular solution which provides tools to support the decision making process in different operational contexts and which has participated in the realization of Hologarde and Hologuide. In 2017, Innov'ATM deployed it's coupled AMAN/DMAN tool for Geneva Airport for skyguide within the context of the SESAR 2020 project, as well as an ATFCM tool for the Paris CDG airport, allowing the optimisation of air traffic on approach.