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Collaborative Combat Effectors Demonstration

MBDA showcases ORCHESTRIKE at Paris Air Show 2023

During the 2023 edition of Paris Air Show, MBDA will be demonstrating its collaborative combat effectors solution, ORCHESTRIKE. For the first time in Europe, an interactive demonstrator will allow military users to immerse themselves in a unique simulated raid using network enabled effectors, linked to each other, reacting live to the developments of a tactical situation.

MBDA is actively developing the technologies to deliver collaborative effectors. These involve connectivity, software architecture and algorithms, including Artificial Intelligence with human in the loop. MBDA remains the only European company capable of integrating these technologies into missile systems thanks to decades of expertise. ORCHESTRIKE is the MBDA brand for this unique capability.

Collaborative effectors are missile systems capable of sharing information about the battlespace as they approach targets, coordinating their actions to overmatch adversaries. Collaboration between each element of a pack of effectors delivering surface attack is key to overcoming enemy air defences, enhancing survivability of effectors and increasing efficiency on targets. Packs of collaborative effectors acting as one will constitute an essential part of the “Common Armament Layer” of future combat air systems.

The ORCHESTRIKE Collaborative Combat Effectors demonstrator at Paris Air Show 2023 embeds spectators in a live simulated raid by connected effectors, which includes glide and powered missiles and expendable Remote Carriers working closely together. The demonstration highlights three essential collaborative functions: pop-up threat avoidance, collaborative targeting, and automatic target reallocation.

The demonstrator will also compare real time the operational benefits brought by the pack of collaborative effectors against a pack of unconnected effectors, demonstrating how ORCHESTRIKE makes a difference in the combat space.

About MBDA

MBDA is a unique multi-national European company, a world-leader in the field of missile systems, playing a key role in keeping our nations safe. Created in the spirit of international partnership, MBDA and its X employees work together to support the national sovereignty of France, Germany, Italy, Spain and the UK, and other allied countries worldwide. As an incubator for innovation, MBDA is the only European group capable of designing and manufacturing missile systems to meet the full range of current and future operational requirements of the three armed forces (land, sea and air). MBDA is jointly owned by Airbus (37.5%), BAE Systems (37.5%) and Leonardo (25%) jointly own MBDA.

Press Contact:**Julien Watelet**

Tel: +33 (0)1 71 54 22 24

Mobile: +33 (0)6 85 22 08 74

julien.watelet@mbda-systems.com