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Eve Air Mobility Presents Vector and Provides Updates on the Urban ATM Software Development

The company has been developing next-generation Urban Air Traffic Management solutions to enable integrated Advanced Air Mobility operations.

GENEVA, Switzerland — Mar. 19, 2024 — Eve Air Mobility (“Eve”) (NYSE: EVEX; EVEXW) has released today at the Airspace World in Geneva the name of its Urban Air Traffic Management (Urban ATM) software and provided updates on the solution’s development. Vector will be an agnostic software solution designed to safely address the unique air traffic and network management challenges of current and future Advanced Air Mobility (AAM) operations, focusing on fleet and vertiport operators, and future service providers for AAM, including Air Navigation Service Providers (ANSPs). The company is advancing towards an operational version of the software which customers can test and trial to help progress the market.

“Electric vertical take-off and landing (eVTOL) aircraft flights will become an established transportation mode for communities worldwide. Eve expects first deliveries and entry into service as soon as 2026 and has been addressing the airspace and Air Traffic Management (ATM) challenges to support the introduction and growth of the market in a harmonized and safe way. Vector will streamline AAM operations from day 1, coordinating all stakeholders involved to enhance safety, optimize performance, and maximize resource usage,” said Johann Bordais, Eve’s CEO.

Vector will allow eVTOLs to be integrated with other aircraft flying in low-level urban airspace from day 1 of operations and provide the automation needed to enable Urban Air Mobility (UAM) market scalability. To date, Eve has 14 (fourteen) customers for the solution, including fleet operators, vertiports and airspace and flow management providers. With Vector, eVTOL operators will make their operations more efficient; vertiports will manage resource availability with all operation stakeholders involved; and ANSPs and Providers of Services (PSU) for UAM will optimize the airspace and air traffic network for all users.

In November 2023, [Eve partnered with Flexjet to conduct a simulation to validate and refine Vector’s capabilities](#) under real-scenario conditions and better understand the software’s commercial viability and applications. The simulation took place in the UK and involved 18 flights across eight aerodromes, exercising 26 different routes with alternative landing locations to test the standby flight plan functionality. The team also tested delays at departure and destination with impacts on incoming flights, flight cancellations due to airspace and weather constraints, and in-flight emergencies, including alternative landing location requests.

The Eve-Flexjet simulation has found gaps between current ATM systems and those required to support UAM operations from Day 1, such as the lack of integration between fleet and vertiport operator systems to coordinate eVTOL flights safely and efficiently. Therefore, Eve is prioritizing the development of services that address these gaps, including integrated flight planning with airspace and vertiport resource availability; management of alternate landing locations built into the flight planning to support the endurance limitations of electric aircraft; and conformance management to inform stakeholders when flights deviate from their plan and may affect other flights.

“Flight dispatchers are responsible for nearly all aspects of an operation, which requires extensive decision-making and tracking abilities. Urban ATM services can support these activities in preparation for AAM operations through increased levels of automation and an integrated view of the relevant information tied to a specific flight. Eve has been actively incorporating features, including feedback received through user testing, into Vector to ensure the value of its services translates directly to the end users”, added Brenden Hedblom, Eve’s head of traffic management solutions.

As Vector matures, Eve continues to pursue additional opportunities to trial the solution with its customers and partners. Testing it in real-world scenarios is the best way to ensure the services provide optimal value. The company expects this year to advance towards an operational version of the software which customers can test and trial to help advance the market and prepare the UAM ecosystem for initial operations.

Image: <https://eve.imagerelay.com/fl/0bf11739ca74463dacc8e60268642b5a>

Watch Vector’s video here:

<https://eve.imagerelay.com/share/b294b27ed3c149dbbdbc734ebb0fcf4e>

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About Eve Air Mobility

Eve is dedicated to accelerating the Urban Air Mobility ecosystem. Benefitting from a start-up mindset, backed by Embraer S.A.’s more than 50-year history of aerospace expertise, and with a singular focus, Eve is taking a holistic approach to progressing the UAM ecosystem, with an advanced eVTOL project, a comprehensive global services and support network and a unique air traffic management solution. Since May 10, 2022, Eve has been listed on the New York Stock Exchange, where its shares of common stock and public warrants trade under the tickers “EVEX” and “EVEXW.” For more information, please visit www.eveairmobility.com.

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