News

30 years of innovation – shaping the future of aviation IT

- Lufthansa Systems combines three decades of experience with forward-looking technology

- From cloud-based operations to AI-driven efficiency – Lufthansa Systems sets new standards in aviation IT

- The future of aviation IT is intelligent, connected, and automated

Raunheim, 7th August 2025. For 30 years, Lufthansa Systems has been at the forefront of aviation IT, driving digital transformation and enabling airlines to become smarter and more efficient. Founded in 1995 to elevate Lufthansa's IT operations, the company quickly became a driving force in the digital evolution of the aviation sector. Today, its impressive product portfolio supports many critical airline business processes on the flight deck, in the cabin, and on the ground, serving more than 350 customers worldwide across all sizes and business models.

Lufthansa Systems continues to lead with cutting-edge technologies that address the most pressing challenges in aviation. They meet these requirements by utilizing advanced technologies and developing solutions designed to enhance airline operations' predictability and efficiency.

The paperless flight deck is now a reality – and without Lufthansa Systems, who introduced digital navigation charts back in 2004, it wouldn't be. Lido Flight 4D Integrated Flight Support (IFS) continues to optimize routes, enhancing efficiency while contributing to sustainability goals by reducing fuel consumption and CO_2 emissions. As the industry embraces new distribution models, Lufthansa Systems is setting new standards by redefining financial processes. SIRAX/ONE Order allows airlines to seamlessly integrate revenue accounting into an order-focused environment, simplifying financial management and enhancing transparency. The smart operations control assistant NetLine/Ops++ aiOCC uses reinforcement learning to enable real-time disruption management, helping airlines minimize delays and optimize resources. Another recent innovation generates profitable flight schedules from scratch or refines existing ones, allowing the airline to adapt to volatile market conditions and maximize network profitability swiftly.

"For 30 years, Lufthansa Systems has been shaping aviation IT with cutting-edge solutions. From AI-driven operational control to seamless financial processes and optimized flight planning, our technology has helped airlines to navigate a fast-changing industry. The future of aviation IT is intelligent, connected, and automated – and Lufthansa Systems is leading the way," said Stefanie Neumann, CEO of Lufthansa Systems.

Cloud-based infrastructure and intelligent IT solutions drive the innovation strategy of Lufthansa Systems. By enabling optimized flight planning, digitalized processes, and scalable cloud solutions, airlines reduce their environmental footprint while ensuring operational flexibility. The Global Aviation Cloud offers a highly secure and scalable

environment for mission-critical applications, built on partnerships with Google Cloud and Microsoft Azure. This multi-cloud approach enables seamless deployment across diverse airline systems, reducing environmental impact while enhancing operational flexibility.

As sustainability becomes a defining factor in aviation, smart IT solutions play a critical role – from AI-driven route optimization to digitalized workflows and cloud-based efficiencies that reduce hardware dependency.

"We need a holistic approach to aviation technology: The demand for integrated solutions is growing as airlines shift from solving isolated departmental challenges to enhancing cross-functional collaboration. Our iterative, agile approach to development is key to driving innovation and ensuring technology meets real-world needs faster and more effectively," said Neumann. "AI still has its limitations, but its potential is vast – and the next decade will see it play an even more critical role in shaping the future of aviation. That's why Lufthansa Systems is investing heavily in cloud-based solutions, AI-driven decision-making, and real-time operational control systems to drive this transformation."

About Lufthansa Systems

Lufthansa Systems GmbH, the leading airline IT provider, has been shaping the future of digital aviation for 30 years. Helping airlines unlock their full potential, the company combines profound industry know-how with advanced technological expertise. A subsidiary of the Lufthansa Group, the company offers its more than 350 customers worldwide a portfolio with often market-leading products that cover all airline business processes – on the flight deck, in the cabin, and on the ground. Lufthansa Systems is committed to improving its own environmental footprint and that of its airline customers of all sizes and business models. Headquartered in Raunheim near Frankfurt/Main, Germany, Lufthansa Systems employs around 3,000 people at its locations in 16 countries. www.LHsystems.com

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