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North America Flight Planning Software Market Report (2021–2031) by Scope, Segmentation, Dynamics, and Competitive Analysis

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Abstracts

The North American flight planning software market was valued at approximately $202.71 million in 2023 and is projected to grow to $360.48 million by 2031, reflecting a compound annual growth rate (CAGR) of 7.5% during this period.

Growth Drivers in the Market

The aviation sector has experienced rapid maturation, marked by a significant increase in aircraft production and deliveries. This trend indicates a robust demand for flight planning software, particularly as commercial aviation is expected to expand due to rising air travel and aircraft numbers. The demand for flight planning software is further fueled by the increasing orders for narrow-body aircraft globally. Despite challenges posed by the COVID-19 pandemic and geopolitical tensions, the desire for travel has surged, leading to a rise in operations at secondary and tertiary airports. Airlines are now looking to expand their routes to smaller city airports, which in turn increases the need for effective flight planning solutions.

In 2022 and 2023, both Boeing and Airbus reported a significant uptick in orders for narrow-body aircraft. According to Airbus's order and delivery database, commercial aircraft orders rose from 820 in 2022 to 2,094 in 2023. Additionally, deliveries of narrow-body aircraft, such as the A220, A319, A320, and A321, have outpaced those of wide-body models like the A330 and A350 in 2023.

Aircraft Orders and Deliveries

Airbus forecasts that between 2023 and 2042, approximately 40,850 new passenger

and cargo aircraft will be delivered, with 32,630 being single-aisle aircraft and 8,220 wide-body aircraft. The demand for freight aircraft is also expected to rise, with projections of 2,510 aircraft needed, including 920 newly built during this period. This increase in aircraft orders and deliveries is a key driver for the flight planning software market.

Market Overview

The North American flight planning software market is primarily driven by the expansion of aircraft fleets in the region, particularly in the US, Canada, and Mexico. The aviation industry is a significant contributor to the US economy, accounting for 5% of the GDP and generating $1.37 trillion in 2023, according to Airlines for America. The growth in air passenger traffic and government initiatives to expand aircraft fleets in both defense and commercial sectors are expected to further boost the demand for flight management solutions, including flight planning software.

As of 2023, North America had over 8,000 operational commercial aircraft, a number projected to reach around 10,000 by 2033. This substantial fleet size will likely increase the demand for flight planning software, which is essential for applications such as flight route optimization, scheduling, fuel efficiency, and weather forecasting. Additionally, heightened regulations regarding traveler safety and security in the region are contributing to the growth of the flight planning software market.

Market Segmentation

The North American flight planning software market is segmented by deployment, application, component, and country:

- Deployment: The market is divided into cloud and on-premise solutions, with the cloud segment holding a larger share in 2023.

- Component: The market is categorized into software and services, with software dominating the market share.

- Application: Key segments include logistics and cargo, airport operations, private airlines, commercial airlines, flight schools, and military & defense, with commercial airlines leading in market share.

Country: The market is segmented into the US, Canada, and Mexico, with the US holding the largest share in 2023.

Key Players in the Market

Prominent companies in the North American flight planning software market include CAE Inc., Collins Aerospace, NAV Flight Services LLC, Jeppesen Sanderson, Inc., Sabre Corp, NAVBLUE, FSS GmbH, Laminaar Aviation Infotech Pte Ltd, Chetu Inc., AIMS INTL DWC LLC, eTT Aviation, ForeFlight LLC, Amadeus IT Group SA, Universal Weather and Aviation, Inc., Airsupport A/S, Deutsche Lufthansa AG, and RocketRoute Ltd. These companies are at the forefront of providing innovative flight planning solutions to meet the growing demands of the aviation industry.

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