

Real-Time Situational Awareness to Streamline
Operations & Save Costs

NEC Airport Analytics

Air travel is booming! As more vacationers and business travelers choose to fly to their destinations, airports and airlines need solutions to streamline operations and save costs. At the same time, passenger safety and security remain top priorities.

In collaboration with Emu Analytics, NEC Airport Analytics enables dynamic, real-time situational awareness of airside airport operations. The solution consolidates data sources to provide widely accessible insights for monitoring, alerting and rapid decision-making.

Emu Analytics specializes in real-time geospatial and temporal analytics applications, including cloud-based Digital Twins of real-time transport operations and infrastructure.



Key Solution Features

Streamline operations

By integrating diverse data sources, NEC Airport Analytics delivers accessible insights for comprehensive monitoring, timely alerts and data-backed decisions for airside operations.

Historic analysis

Revisit historic points in time, to understand your airside operation's moving assets. Measure patterns of recurring behaviors over longer periods of time to reduce inefficiencies.

Analysis of airspace usage

Powerful tool for analyzing patterns of airspace usage by geography, time, aircraft types and more. Enable better evidence gathering and decisions around airspace management and change.



Typical baseline data sources include:

- Live (GPS) flight movements from ADS-B data providers (such as Plane Finder and FlightAware Automatic Dependent Surveillance – Broadcast providers)
- Live (GPS) ground vehicle and Ground Support Equipment (GSE) locations from “the customer’s” existing vehicle telematics solutions
- Live airport operations data from the Airport Operational Database (AODB)

Benefits for Airlines

Airline users benefit from real-time situational awareness for airport operations, both at hubs and outstations. NEC Airline Analytics provides greater visibility and contextualized data to aid stand planning, turnaround and On Time Performance (OTP) decision-making, and more. The solution offers highly visual, accessible and sharable frontend application and a rich suite of data integration points, allowing backend data services to be added.



Benefits for Airports

In addition to the real-time view of airside operations, airports benefit from understanding historic patterns of apron usage, identifying pinch points, areas of irregular aircraft dwell times, off-stand holds, ground vehicle and taxiing aircraft journey paths and durations. NEC Airline Analytics enables sustainability and apron usage measurements, future infrastructure needs and potential siting and much more.

Contact Us

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