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TECHNOLOGY

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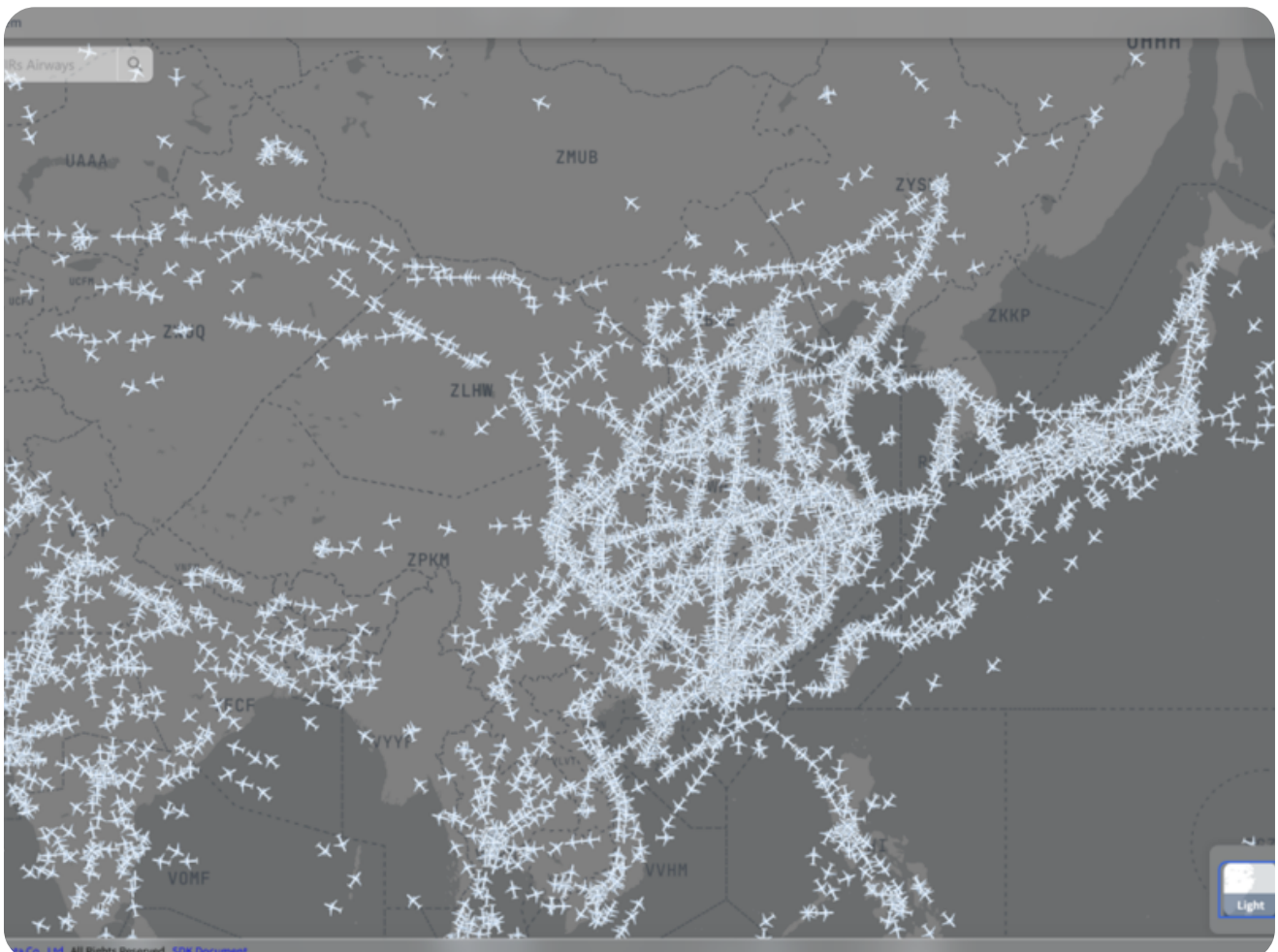


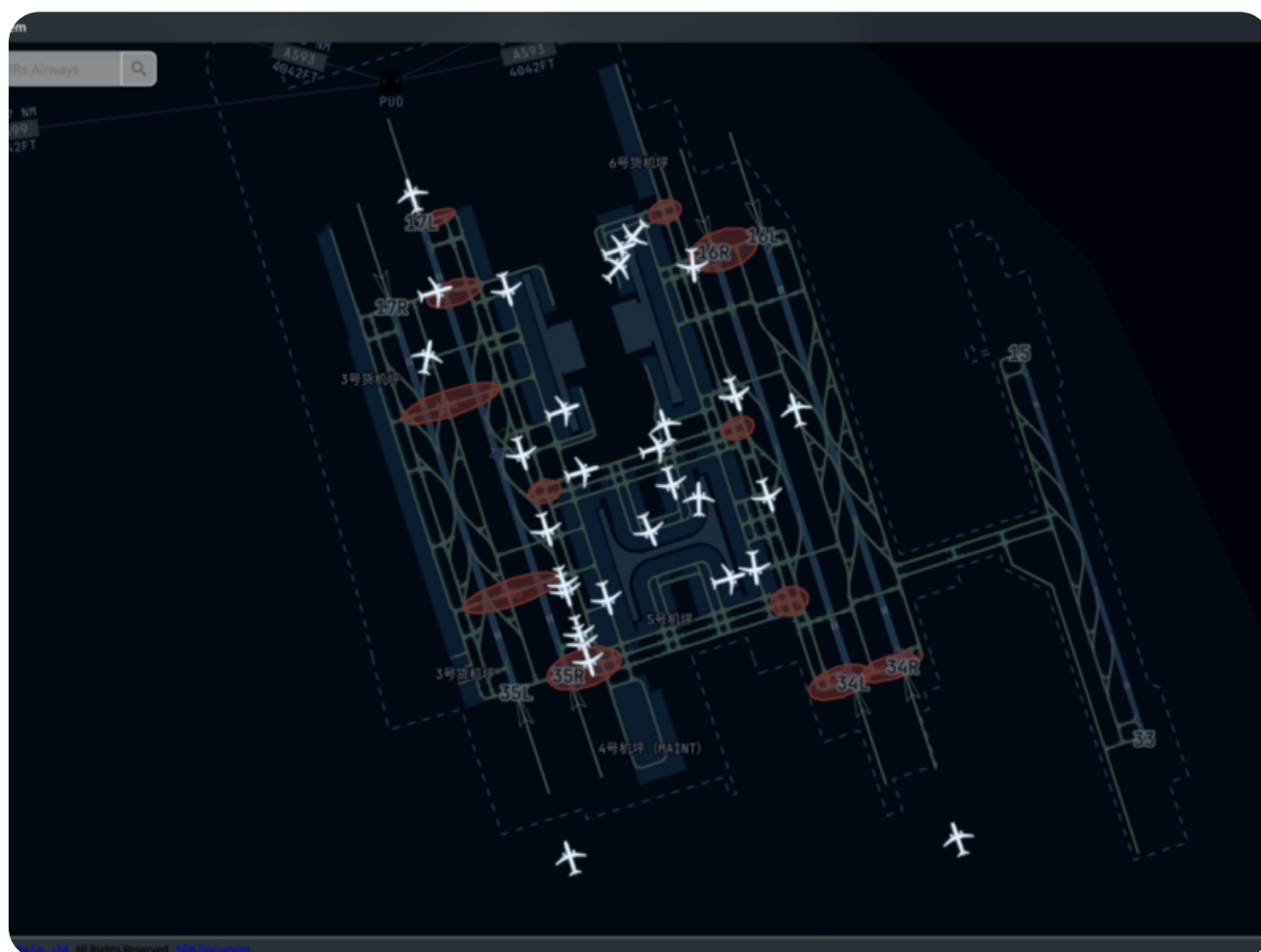
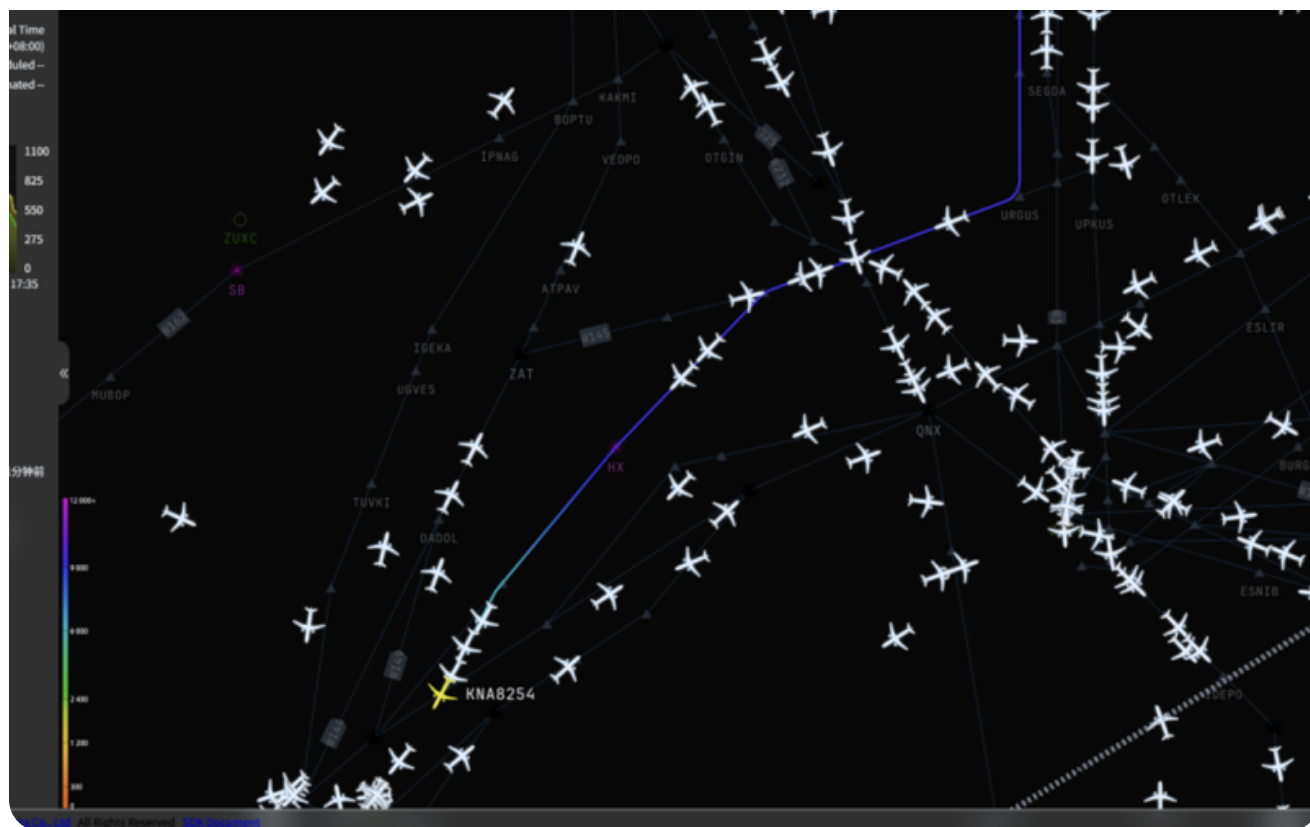
On December 30, 2025, ZDH officially launched its advanced ADS-B Aviation Data Service. By leveraging a globally distributed ADS-B receiver network and ZDH's proprietary high-precision mapping engine, the platform now provides real-time ingestion, visualization, and analysis of global flight data with sub-second refresh rates.

This new service transforms raw broadcast data into actionable intelligence, offering a comprehensive suite of features designed for modern aviation stakeholders:

01. Dynamic Global Flight Visualization

The platform supports the seamless loading and display of tens of thousands of concurrent flights, ensuring a lag-free experience even during peak global traffic. Key visualization capabilities include:







- **Surface Operations:** Integrated ground taxi dynamics overlaid on high-fidelity AMM (Airport Moving Map) data.
- **Profile Analytics:** Linked vertical altitude and speed profiles synchronized with 2D/3D map views.
- **Trajectory Rendering:** Advanced color-gradient rendering based on altitude, with full historical trajectory playback.

02. Empowering Operational Decision-Making

Beyond simple tracking, ZDH's ADS-B services provide the backbone for critical business and safety analysis:

Traffic Surveillance

Real-time monitoring for en-route, terminal, and runway approach phases.

Fleet Management

Enhanced tools for dispatching, deviation monitoring, delay analysis, and abnormal flight alerts.

Airspace Security

Automated alerts for restricted areas or temporary airspace incursions, and proactive situational awareness for strategic re-routing.

03. Standardized Integration & SDK Support

To minimize development complexity, ZDH offers a standardized ADS-B Data API and SDK. This allows organizations to rapidly integrate their own ADS-B data streams into the ZDH ecosystem without the need for low-level parsing or complex rendering development.

The standardized framework enables users to build bespoke operational monitoring systems tailored to their specific mission requirements—



Experience the future of aviation situational awareness. Visit the platform at aips.siniswift.com or consult our technical specialists for a customized integration plan:

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