N AVIATION EWSLETTER

EDITION 3 | 2024

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TRANSOFT SOLUTIONS

CONTINUING WITH A FORWARD FOCUS

Dear Readers, welcome to the third edition of our 2024 Newsletter. Q4 is here already, and we still have a few important events ahead, including ACI LAC and CANSO LAC. Like many of you, we are also preparing for 2025.

The International Civil Aviation Organization (ICAO) held its first Advanced Air Mobility (AAM) Symposium in Montréal, Canada, with the theme "AAM global harmonization and interoperability: Challenges and opportunities". A key outcome was ICAO's Global Call to Action for the safe, accelerated, and sustainable deployment of AAM technologies, and the importance of regulatory harmonization, cross-sector collaboration, and strategic infrastructure development.

In this issue, you will find articles on how Beca successfully used AviPLAN to reconfigure stands at Auckland Airport, and how DFS Deutsche Flugsicherung is using AirTOP WIZer to improve efficiency and operational insights. Page 5 further explores AirTOP WIZer ACC, looking at how it forecasts real-time air traffic demand and complexity, enabling users to anticipate conflicts and take early corrective action.

Please also note we offer tailored academic software licenses for students and universities under the Transoft Educational Program (TEP). I'd be happy to discuss how we can supply our professional software to support your current or former university associations.

Mark Rodrigues
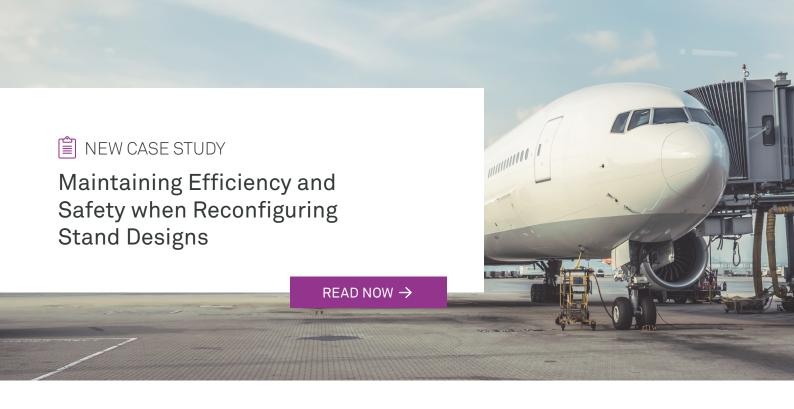*Vice President, Aviation*

WORD FROM PRODUCT MANAGEMENT

Since my last message, our product teams have deployed numerous AeroCENTRAL updates, finalized AirTOP 2024 update 3 - which included new functionality and improvements in most modules - and launched AviPLAN 2024 update 2 - which brought functionality and performance enhancements.

Several library updates for AviPLAN and Aircraft Data Viewer have also been released in the interim. Go to My Transoft Portal to download the latest version.

On the topic of Aircraft Data Viewer, as mentioned in the previous newsletter, we are investing in *Specifications*, an application on our AeroCENTRAL platform, to replace Aircraft Data Viewer. Active users are encouraged to move to Specifications for access to familiar features, along with numerous enhancements and online access. Please note, no further library updates will be issued for Aircraft Data Viewer as of 31 December 2024. For more information, contact your Account Manager.

AviPLAN and AeroSTRIPE releases, featuring new CAD compatibility and functionality enhancements, are on the horizon. Keep an eye on LinkedIn for these updates, upcoming events, and industry news.

James Renner
Director, Aviation Operations

Maintaining Efficiency and Safety when Reconfiguring Stand Designs

READ NOW →

Beca, one of Asia Pacific's largest independent advisory, design, and engineering consultancies, with over 4,000 employees across 25 global offices, was tasked with reconfiguring Stand 10 at Auckland Airport to accommodate larger aircraft.

The stand, originally designed for Code E planes, required reconfiguration to accommodate larger Code F aircraft. The challenge was fitting a second fixed link and aerobridge within limited space while maintaining service for smaller aircraft.

To address this challenge, Beca utilized AviPLAN software to ensure minimal impact on apron operations, ground services, and safety standards.
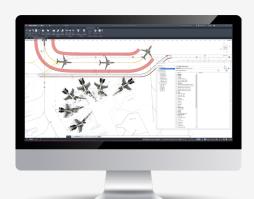
Beca modeled multiple design iterations, optimizing the stand's layout to ensure safety, efficiency, and compliance with regulatory

standards. The solution allowed for the seamless integration of a new passenger boarding bridge and fixed link, alongside existing infrastructure.

Learn more about the project by reading the full case study.

> **❝** We were able to accommodate a new aircraft into an existing restricted operation while simultaneously improving the safety of the stand **❞**
>
> *Wayne Napier, Associate Civil Engineering – Airports, Beca*

READ FULL CASE STUDY →

Parking stand simulation and visualization with AviPLAN

AviPLAN is a complete CAD software solution for safe and accurate airside planning and design. It can be used to model revisions to apron layouts, develop complex stands with multiple boarding bridges, design taxiways and fillets, and generate detailed ground markings. The software can assess safety clearances, jet blast impact, and operational efficiency.

LEARN MORE →

AVIPLAN | BOOK ONLINE TRAINING

Don't miss the opportunity to book an AviPLAN online training course this fall. Choose one or both of the courses below covering key aspects of AviPLAN software and theory.

The *Aircraft Path Simulation and Parking* course introduces you to aircraft and vehicle path simulation, jet blast impact, and parking commands. The *Contact and Remote Stand Planning* course equips you with essential skills and knowledge to optimize the airside planning process.

See the dates below and click on the corresponding arrows for more details and to register.

Aircraft Path Simulation and Parking
November 12-13, 2024 | 2-hour sessions each day
8:30 AM ET | 10:30 AM BRT | 1:30 PM GMT | 2:30 PM CET | 5:30 PM GST

⇨

Contact and Remote Stand Planning
November 19-20, 2024 | 2-hour sessions each day
8:30 AM ET | 10:30 AM BRT | 1:30 PM GMT | 2:30 PM CET | 5:30 PM GST

⇨

Watch for future online course dates or book a private session today.

Whether you're a novice or an experienced user, our online AviPLAN training courses provide you with a convenient and affordable way to get the most out of your software. Follow us on LinkedIn to see when online training courses are coming up.

FOLLOW US ON LINKEDIN →

For your convenience, we also provide private online training courses. Get in touch if you are interested in booking private training for your organization.

CONTACT US →

AirTOP | IMPROVING THE AIR TRAFFIC FLOW

Flight delays are a growing challenge as air traffic increases. With over 12 million flights predicted in Europe by 2030, efficient airspace management is more crucial than ever.

This is where AirTOP WIZer ACC comes in.

The software uses real-time data (see diagram), that enables Air Navigation Service Providers (ANSPs) to make informed decisions on how to safely and efficiently manage air traffic in an Area Control Center (ACC).

During fast-time simulations, AirTOP WIZer repeatedly calculates the future air situation, logging relevant events for each flight and controller workload.

"*The tool takes a snapshot of the current reality every minute and constantly updates the simulator with this new picture, so we get a new set of results at whatever frequency we need*," explains Transoft's Senior Product Manager, Pier Ferraris.

By providing real-time forecasts of air traffic demand and complexity, the tool enables Flow Managers to anticipate bottlenecks or potential conflicts so they can take corrective actions before issues arise.
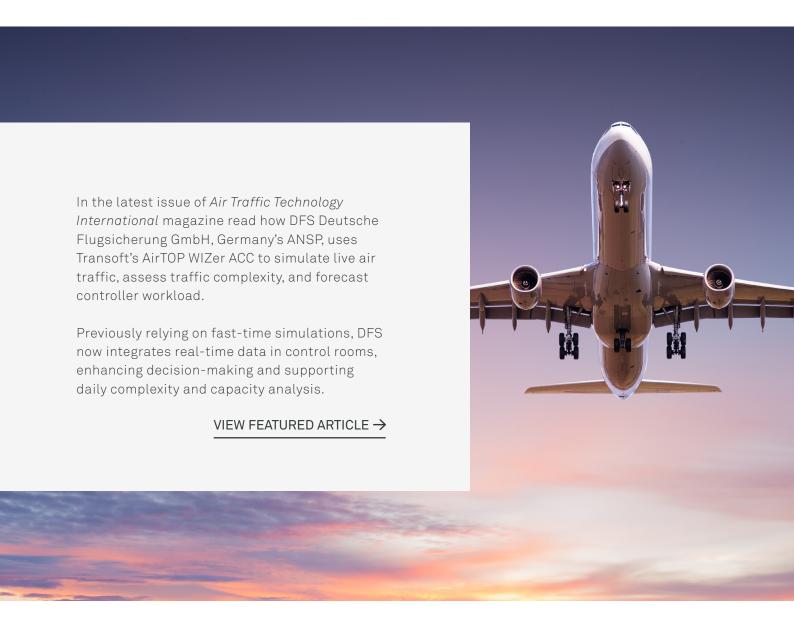
Learn more about this and AirTOP WIZer ACC's capabilities by reading the full blog post.
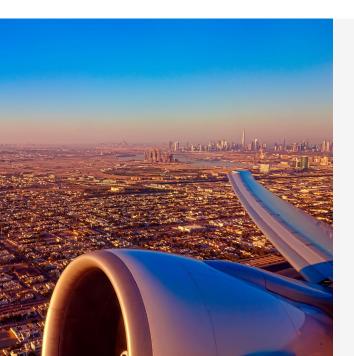
READ NEW BLOG POST →

AirTOP WIZer ACC uses input data from various sources, including in-flight progress messages, live radar tracks, military airspace activation plans, wind and storm forecasts, the current sector opening scheme, and the current activated scenarios or regulations.

LIVE UPDATES

Flight Progress Messages

Radar Tracks

A-CDM Update

Weather Forecast

Rostering Tool

Military Configurations

**DATA FUSION
FAST-TIME SIMULATION**

AIRTOP | WIZER ACC

AIRTOP
Simulation Model

DECISION SUPPORT

- ACC Supervisor
- FMPS
- Tower Controllers
- Airport Operators

Forecast

What-If Analysis

Interested in learning more about AirTOP WIZer?
Get in touch for a product tour with a Transoft representative.

ENHANCING SIMULATIONS WITH REAL-TIME DATA

In the latest issue of *Air Traffic Technology International* magazine read how DFS Deutsche Flugsicherung GmbH, Germany's ANSP, uses Transoft's AirTOP WIZer ACC to simulate live air traffic, assess traffic complexity, and forecast controller workload.

Previously relying on fast-time simulations, DFS now integrates real-time data in control rooms, enhancing decision-making and supporting daily complexity and capacity analysis.

VIEW FEATURED ARTICLE →

EMPOWERING DUBAI'S AVIATION INDUSTRY

Dubai is an increasingly popular destination and has witnessed the rapid growth of its aviation infrastructure, with a further demand increase in air traffic expected in the coming years.

Discover how Dubai's leading ANSP (dans) is using fast-time simulation software to assist with plans to turn Dubai into a major aviation hub.

READ THE FULL ARTICLE →

AEROCENTRAL | STREAMLINE AIRSIDE OPERATIONS

AeroCENTRAL is a platform designed to streamline airside planning and operations by enabling efficient sharing of infrastructural and operational data among stakeholders. It eliminates the need for multiple data sources, reduces duplication, and minimizes the risk of data loss or errors.
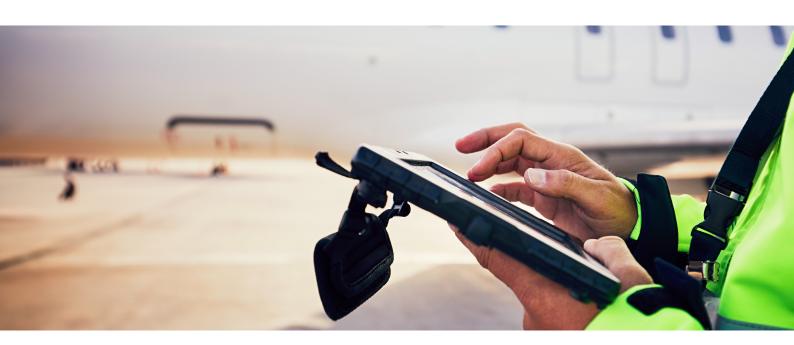
The platform allows users to integrate existing data with additional technical information from various systems, such as airside configurations, turnaround procedures, and GIS databases.

> " AeroCENTRAL provides faster, more reliable data access, enhancing efficiency and increased safety in apron operations "

Matthias Hildebrandt
Product Manager, Transoft

DISCOVER AEROCENTRAL →

ON-DEMAND WEBINAR

Watch the AeroCENTRAL webinar for an insightful introduction to the AeroCENTRAL Stand Guide application and discover how this tool streamlines the sharing of key information to enhance airside operational efficiency.

WATCH NOW →

TRANSOFT EDUCATIONAL PROGRAM

The Transoft Educational Program (TEP) helps connect academic theory with practical experience by providing students and universities access to Transoft's software tools.

Professors and institutions can request tailored licenses for students and for classroom use. Over 50 universities in 20 countries use Transoft's products in their curriculum. Get in touch to learn more about the program.

LEARN MORE →

UPCOMING EVENTS

ACC 46th Annual Conference
October 21-23 | Scottsdale, AZ, USA

ACTA Global
November 5-7 | Washington, DC, USA

ACI LAC Annual Conference & Exhibition
November 10-12 | Guadalajara, Mexico

AAA National Conference and Industry Expo
November 19-21 | Brisbane, Australia

CANSO LAC
December 2-4 | Port of Spain, Trinidad and Tobago

EVENTS ROUND-UP

Guohui (Nemo) Li and Chao Zhao in the booth at inter airport China, 2024

Early in September, Guohui (Nemo) Li, Product Manager, and Chao Zhao, Civil Technologist from Transoft's Shanghai office represented the company at inter airport China 2024. The exhibition attracts a diverse range of industry professionals from airports, airport authorities, engineering consultancies, and design institutes.

As an exhibitor, Transoft showcased its cutting-edge solutions, connected with attendees about the challenges airports face today, and discussed how Transoft's software can help.

The team had the opportunity to present at the event's forum, where they introduced AeroCENTRAL, the new cloud-based platform designed to streamline data sharing between airport planning and operations. The presentation was well-received, generating significant interest in the platform. Nemo and Chao also shared insights on the future of airport operations and how Transoft's technology is driving digital transformation.

Overall, inter airport China 2024 was a productive event, offering valuable networking opportunities and providing a platform for Transoft to share its vision for the future of airport operations. We look forward to building on these relationships and supporting the growth of the aviation industry in China.

ACI-NA Annual Conference & Exhibition

On September 7-10, Mark Rodrigues, VP of Aviation at Transoft Solutions, and Vignesh Dhiwaghar, Account Manager, attended the ACI-NA Annual Conference & Exhibition in Grand Rapids, Michigan. They were there to showcase Transoft's innovative solutions that support airport operations and technologies.

Mark Rodrigues and Vignesh Dhiwaghar at the ACI-NA Conference & Exhibition in Grand Rapids →
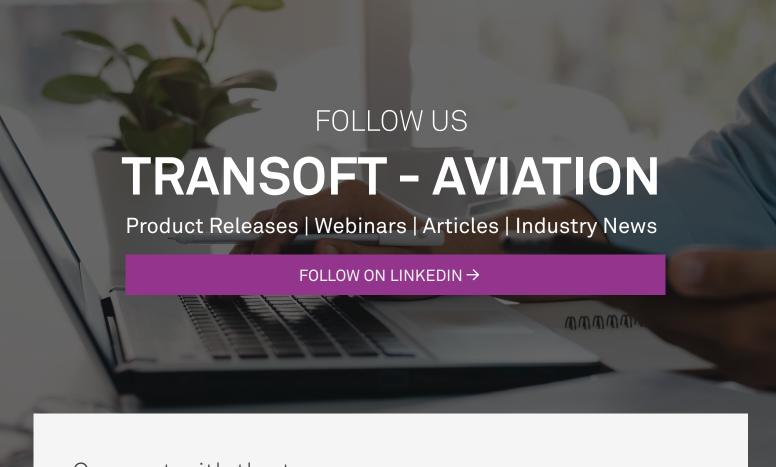
TELL US YOUR STORIES

We are always excited to hear about the innovative ways that users are utilizing our software. If you have worked on an interesting project or have a unique use case that you believe would be valuable to share with others, we would love to hear about it.

If you are interested in sharing your experience, please let us know. We look forward to the possibility of highlighting your achievements!

SHARE A PROJECT →

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Connect with the team

Email us at infoaviation@transoftsolutions.com

Regional Offices

Europe, Middle East & Africa	Americas	Asia Pacific
infoeu@transoftsolutions.com	info@transoftsolutions.com	infoapac@transoftsolutions.com
+31 10 258 78 78	+1 604.244.8387	+61 2 8067 8414

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