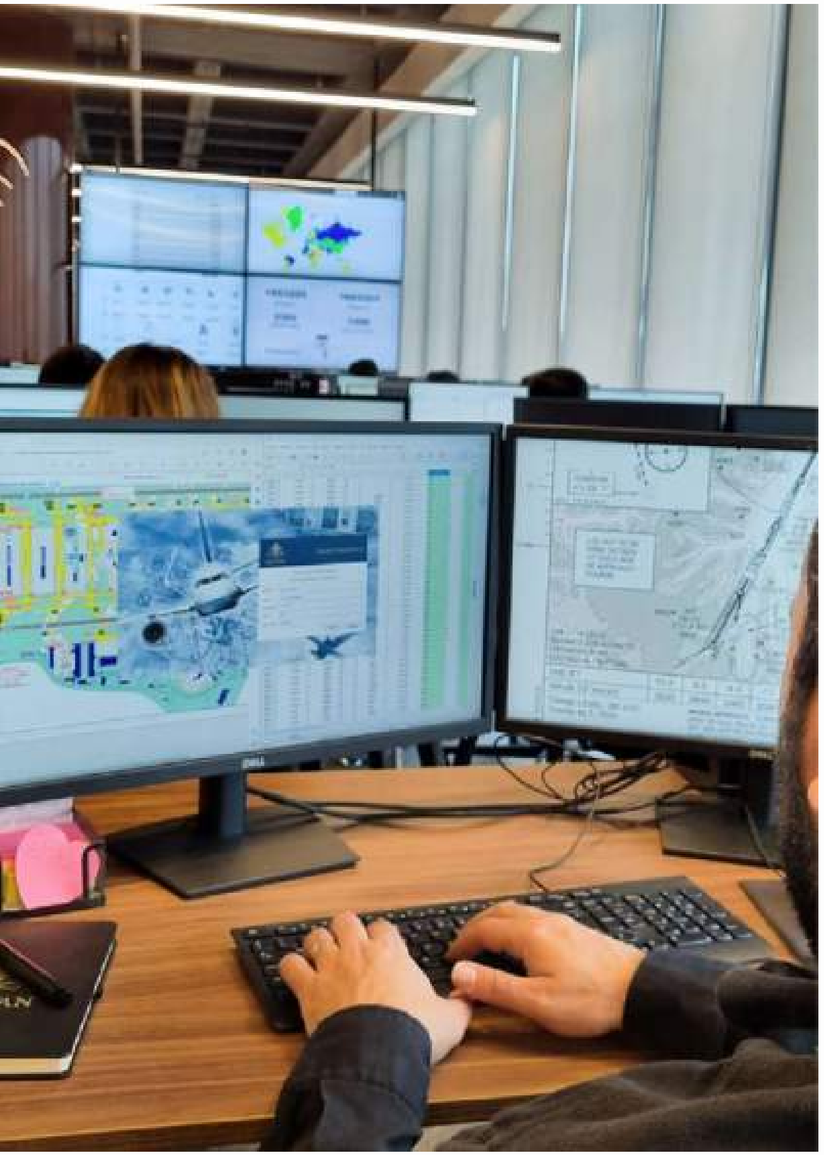
MILOps DATA
by KEYVAN

Trusted Data, Mission Accomplished





About Us

KEYVANAviation isaglobally recognized provider of certified aeronautical navigation data and aviation intelligence solutions. With a mission to support safe and efficient flight operations, KEYVAN Aviation delivers high-quality, up-to-date navigation databases and aeronautical information services tailored for airlines, aircraft operators, OEMs, simulator companies, and airspace authorities.

As an EUROCAE ED-76A and ED-77 (RTCA DO-200B , DO-201) compliant data provider, KEYVAN Aviation is fully certified under EASA regulations (Type 1 DAT Provider : FAA LOA Type 1) and operates in accordance with EU Regulation 373/2017, ensuring that its data management and processing meet the highest international aviation standards. Our comprehensive quality management system is aligned with ISO 9001:2015, enabling precise control over every stage of the data lifecycle, from acquisition and validation to formatting and delivery.

Our navigation data is processed using advanced systems and rigorous validation procedures, including full compliance with the ARINC 424 standard, to ensure seamless integration with flight management systems and simulation platforms. Every dataset undergoes strict quality assurance checks, traceability audits, and integrity verification to guarantee consistency, accuracy, and regulatory compliance.

At KEYVAN Aviation, customer satisfaction is at the heart of everything we do. We work closely with our clients to understand their operational needs and deliver customized data solutions that enhance safety, performance, and decision-making. By combining innovation with robust regulatory compliance, KEYVAN Aviation stands as a trusted partner in today’s dynamic air navigation environment.

KEYVAN Aviation also holding ISO27001 , ISO15504 , and follow the DO-330 for the tools and software requirement .

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Board Members



MEHMET KEYVAN
Chairman of the Board & CEO

Mehmet Keyvan is the Founder, Chairman, and CEO of KEYVAN Aviation, an Istanbul-based aeronautical data company. Under his leadership, KEYVAN Aviation became the first company in Türkiye—and one of only four companies worldwide—to obtain EASA approved Type 1 DAT Provider certification for processing and delivering aeronautical and navigation data for use in aircraft avionics and navigation systems. Before founding KEYVAN Aviation, Mehmet built more than 25 years of experience as an avionics engineer and technical consultant. Throughout his career, he collaborated with leading aviation brands and aircraft manufacturers, contributing to the installation, integration, and development of advanced avionics systems.

Mehmet Keyvan is a member of GIYAD (Association Of Young Executives And Business People – Turkey) , TUSIAD (Turkish Industry and Business Association – the biggest and strongest Business Association in Turkey), TURKONFED (Turkish Enterprise and Business Confederation), and globally SC-217 (Aeronautical Databases committee , established 2008, is developing Standard for Processing Aeronautical Databases), SC-216 (Aeronautical Systems Security committee, established 2007, to develop airworthiness security methods and considerations), HIB (Services Exporters' Association), ACI (Airports Council International- Europe) and active member of ACI Technical, Operation & Safety Committee , ACI ECONOMICS Committee and Forbes Business Council.



HASAN KÜÇÜKAKYÜZ
Vice President of the Board

Hasan Küçükakyüz, Vice President of the Board at KEYVAN Aviation, is a retired Air Force General and former Commander of the Turkish Air Force.
Hasan Küçükakyüz is a distinguished commander and aviation leader, recognized for the senior responsibilities he assumed at the highest levels of Turkish military aviation and for his exceptional career spanning more than 44 years. After graduating from the Turkish Air Force Academy in 1978, Küçükakyüz served at various levels of the Turkish Air Force, undertaking significant responsibilities in piloting, squadron command, operations, training, inspection, and strategic management. Throughout his career, he held several critical positions, including Commander of the Air Training Command and Commander of the Combatant Air Force and Air Missile Defence Command. From 2017 to 2022, he served as the 32nd Commander of the Turkish Air Force. Over the course of his 44-year flying career, Küçükakyüz logged more than 5,529 flight hours across 29 different aircraft types.

He has been awarded the NATO Medal, the Turkish Armed Forces Distinguished Service Medal, the Turkish Armed Forces Medal of Honour, and Pakistan's Nishan-e-Imtiaz.



MUSTAFA HACIKERIMOĞLU
Vice President of the Board

Mustafa Hacıkerimoğlu, Vice President of the Board at KEYVAN Aviation.
Mustafa Hacıkerimoğlu is a distinguished and visionary Turkish business leader, recognized for his diversified investments and extensive experience across multiple industries. With a broad investment portfolio spanning aviation services, automotive, construction, energy, healthcare, insurance, and hospitality, he leads a dynamic and multi-sector business structure.
Driven by strategic insight, a strong entrepreneurial vision, and a management philosophy centered on sustainable growth, Hacıkerimoğlu has created lasting value through investments across different regions.

His business approach places particular emphasis on corporate development, innovative business models, long-term value creation, and meaningful contributions to employment, regional development, and the wider economy.

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QUALITY

Dedicated to aviation safety and never compromising on the quality ofthe services provided to its customers, KEYVAN Aviation continuously follows global standards and regulations. KEYVAN Aviation Quality System is based on ISO 9001 and all departments of the company are subject to regular internal and external audits to ensure the effectiveness of our quality system. The Aviation Database produced by KEYVAN Aviation is prepared in accordance with the requirements of EU Regulation 2017/373, Standard ED-76A (DO-200B) and ED-77 (DO-201B). KEYVAN Aviation has Quality Management System (ISO 9001), Information Security Management System (ISO 27001), Software Process Improvement and Capability dEtermination (SPICE) ISO 15504 certification, and EASA Approved Type 1 Aviation and Navigation Data Production (LOA TYPE 1 DAT Provider) certificates.



EASA Type 1 DAT Provider Certificate





ISO 9001 Certificate



ISO 27001 Certificate



ISO/IEC 15504 Spice
Organizational Maturity Certificate



ISO/IEC/IEEE 12207 Software
Life Cycle Certificate



Ministry of Industry and Technology of
the Republic of Türkiye
Public Information
Authorization Certificate



Ministry of Industry and
Technology of the Republic of
Türkiye - Software Authorization
Certificate



Ministry of National Defence –
General Directorate of Military
Factories – Approved Supplier
Certificate



EYDEP Certificate – Industrial Competence and
Capability Assessment Certificate

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Defense Industry Compliance Documents for KEYVAN Aeronautical Data Integration



Customer Data Quality Requirements (DQR) For processing Aeronautical information

Doc.-No. KY.NAV.CDQR.ASL
Revision 00
Date 23 September 2022
Page 1 of 44

EASA.A.OA.DAT.033

aselsan

This document prepared by Aeronautical Data Production Manager and Approved by Quality SMS Director with reference to the ASELSAN A.S. Packing tools requirements.

Customer Name	ASELSAN A.S.
Document Reference No.	KY.NAV.CDQR.ASL
Revision	00
Release date	23 September 2022

Prepared By:	Verified By:	Approved By:
Serkan Pusat	Metin Cinbirli	Mehmet Kayvan
Customer Approval : ASELSAN A.S.	Name / Position: Yüksel SERDAR, Avionic System Design Director	Signature: Mustafa ÖZDEMİR, Avionics Systems Program Director

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LEGAL STATUS

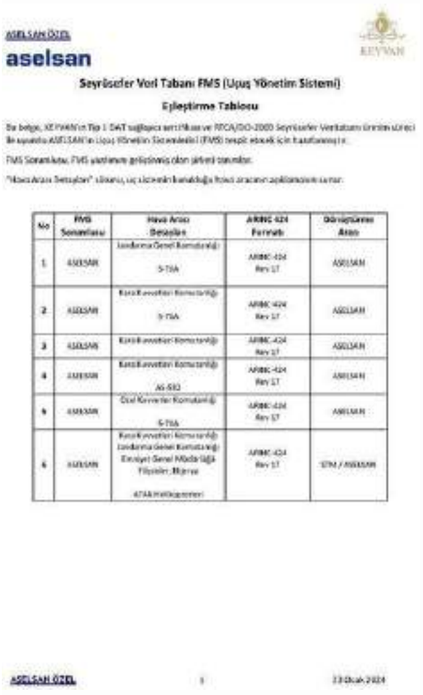
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ASELSAN ÖZEL

aselsan

Seyrüsefer Veri Tabanı FMS (Uçuş Yönetim Sistemi)

Eşleştirme Tablosu

Bu belge, KEYVAN'ın Tip 1 DAT sağlayıcı sertifikası ve ARINC/ISO-2009 Seyrüsefer Veritabanı Üretim süreci ile uyumlu ASELSAN'ın Uçuş Yönetim Sistemleri (FMS) tespit etmek için hazırlanmıştır.

FMS Sorumluluğu, FMS yazılımını geliştirmeyi ve/veya satmayı kapsamaz.

"Hava Aracı Sorumluluğu" sütunu, uçuş sırasında kullanıcıya hangi aracının yapılandırılacağını belirtir.

No	FMS Sorumluluğu	Hava Aracı Detayları	ARINC 424 Formatı	Dönüştürme Aracı
1	ASELSAN	Jandarma Genel Komutanlığı S-70A	ARINC 424 Rev 17	ASELSAN
2	ASELSAN	Kara Kuvvetleri Komutanlığı S-70A	ARINC 424 Rev 17	ASELSAN
3	ASELSAN	Kara Kuvvetleri Komutanlığı	ARINC 424 Rev 17	ASELSAN
4	ASELSAN	Kara Kuvvetleri Komutanlığı AS-532	ARINC 424 Rev 17	ASELSAN
5	ASELSAN	Özel Kuvvetler Komutanlığı S-70A	ARINC 424 Rev 17	ASELSAN
6	ASELSAN	Kara Kuvvetleri Komutanlığı Jandarma Genel Komutanlığı Emniyet Genel Müdürlüğü Filolar: Bilgi ve ATAK Helikopterleri	ARINC 424 Rev 17	STM / ASELSAN



Customer Data Quality Requirements (DQR) For processing Aeronautical information

Doc.-No. KY.NAV.CDQR.TUR
Revision 00
Date 10 January 2024
Page 1 of 44

EASA.A.OA.DAT.033

TURKISH AEROSPACE

This document prepared by Aeronautical Data Production Manager and Approved by Quality SMS Director with reference to the Türk Havacılık ve Uzay Sanayii A.Ş. Packing tools requirements.

Customer Name	Türk Havacılık ve Uzay Sanayii A.Ş.
Document Reference No.	KY.NAV.CDQR.TUS
Revision	00
Release date	10 January 2024

Prepared By:	Verified By:	Approved By:
Serkan Pusat	Metin Cinbirli	Mehmet Kayvan

Customer Approval : Türk Havacılık ve Uzay Sanayii A.Ş.

Confirmed By: Oğuz Gungör	Confirmed By: Mehmet Güven Oltay	Approved By: Güney Yeke
Signature	Signature	Signature

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Navigasyon Veritabanı – OFP İçeriğine Tabiiyet

Bu belge KEYVAN Havacılık'tan "Tip 1 DAT sağlayıcı sertifikası" başvurusu kapsamında sunulmuştur ve KY.CAU.DO-202K sayılı "Navigasyon Veritabanı Üretim Süreci" tarafından düzenlenmektedir. Uçuşlar MAYDB (Navigasyon Veritabanı) verilerinin proje özel sayısal verilerle tamamlanması amacıyla hazırlanmıştır.

OFP (Operational Flight Program / Harekât Uçuş Yazılımı) Sorumluluk Sınırı, OFP geliştirmesi şöleri tasarımlamaktadır.

Operasyonel Hava Sahası Yönetimi sistemi, sağlanan veriyi OFP tarafından istenen formata dönüştürmek MAYDB üretim sistemi Olan Görev Planlama Sistemlerine/veya OFP sistemlerinin geliştirildiği Simülatörlere Yapılan değişiklikten şöleri tasarımlamaktadır.

Sıra	OFP Sorumluluğu	Entegrasyon Sorumluluğu	Hava Aracı	ARINC424 Rev.	Dönüştürme Aracı Sorumluluğu
1	TUSAŞ	TUSAŞ	C-130	ARINC424-18	STM
2	ASELSAN / TUSAŞ (Kayan Hatlar)	TUSAŞ	F-16	ARINC424-20	HAVELSAN
3	ASELSAN	TUSAŞ	MORUS*	ARINC424-18, ARINC424-22	TUSAŞ

Değerlendirme Sonuçları

1) Yeniden edilen 00.15.0003 - 30.15.0003 sertifikası kapsamında geçerli olan C-130 ERZİNE projesine ilişkin olarak Yer Görev Planlama Sistemine Ait yazılım testleri Gözlemlenmiş olup, oluşturulan NAVDB verisinin hem FMS (Uçuş Yönetim Sistemi) hem de MAP (Kayan Harita) sistemlerinde hatasız bir şekilde çalıştığı gözlemlenmiştir.

2) Diğer FMS projeleri kapsamında, KEYVAN verisi uçuş testleri için başarı hanta veri yapılarına uyumlu için başarı ile kullanılmıştır.

3) Sağlanan veri mühendislik değerlendirmesi sonucunda OFP'ne entegrasyon ve test için kullanılmıştır. Sağlanan veriler ilgili ARINC revizyonu ile uyumlu olduğu görülmüştür.



TASNİF DIŞI - TİCARİ GİZLİ
07.26..2025

STM

Seyrüsefer Veritabanı FocusFlite™ Görev Planlama Yazılımları ile Uyum Durumu

Bu belge, KEYVAN firmasının ürettiği Seyrüsefer Veritabanının, FocusFlite™ Görev Planlama Yazılımları ile uyumluluğunu tespit etmek için hazırlanmıştır.

STM tarafından geliştirilen FocusFlite™ Görev Planlama Yazılımları, ASELSAN'ın üst yükleniciliğini yaptığı ATAK, Jandarma Helikopter Modernizasyonu (JHM) ve HETS Tablet projeleri kapsamında ARINC-424 Rev.18 standardı ile uyumlu olarak aktif kullanılmaktadır.

KEYVAN tarafından 19.02.2026 tarihinde tarafımıza sağlanan Seyrüsefer Veritabanı (ARINC-424 Rev18) FocusFlite™ Görev Planlama yazılımları ile üst seviye mühendislik testlerine tabi tutulmuş; bu kapsamda ilgili dosya başarı ile içeri aktarımı yapılmış ve seyrüsefer veritabanı içinde yer alan kalmanların yazılım ekranlarında görüldüğü gözlemlenmiştir.

Not:

İşbu belge, KEYVAN tarafından sağlanan seyrüsefer veritabanının içeriğinin tamlığı konusunda bir tespit içermemektedir.

TASNİF DIŞI - TİCARİ GİZLİ

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MILOps DATA by KEYVAN

KEYVAN offering Aeronautical and Navigation Database-processed and coded Solutions for Military Governmental Operations.

Enroute restriction, limitation, Controlled airspace, Restricted Airspaces, Special Activity areas, Danger, Military, prohibited zones and all required data for safe operation included. The database is ready for avionics manufacturers to generate the loadable NavDB files for **VIP aircraft, VIP Helicopters, Police, Ambulance and special force helicopter fleets, Military, Transportation, Trainers and Tankers Aircraft.** KEYVAN's Team can include special procedures related to operation and training routes and procedures into the tailored database and deliver them to customers in a secure system.

KEYVAN's data and analytic solutions are set to support **governments' planning and operation needs on special flights, zone planning, operation and risk calculations**. By having the most detailed and completed aeronautical and navigation data coverage included with Civil and military data and the ability to integrate with civil airspace rules, restrictions, and controlled& detailed areas, Keyvan can support Special flight plannings requirements, airplane or helicopter databases and post- operation analytic solutions.

The database is available for **Flight Simulators, Training MFTDs, and EFB systems.**



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Database Overview

Global Coverage

Navigation, Airspace & Procedure Intelligence

Mission Planning & Simulation Support

	Worldwide Coverage of 195 Countries		106.111 Enroute Waypoints		13.016 Navaids
	32.608 Airports		111.195 Enroute Airways		474 TACAN-Only Navaid
	14.512 Heliports		268.014 Restrictive Airspace		339 GLS (T)
	9.492 Helipads		6.069 Special Activity Area		4.494 ILS
	1.615 Ultra-Light Sites (T)		309.917 FIR / UIR		429.108 Approaches
	Military		598.071 UC Airspace		228.462 SID's
	525 Water Airfields		5.4270 Holding Pattern		180.796 STAR'S
	42.707 Runways		2.160 Grid MORA		1013 Heliport Communications
	61.105 Airport Gates		145.861 Airport Terminal Waypoints		65.029 Communication
	Flight Planning Continuation		4.480 Airport Localizer Glides Lope		Simulator Continuation Reports

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Key Features

- Worldwide Navigation Database (ARINC 424)
- Flight Charts, Real-time NOTAM & METAR/TAF Data
- Global Aerodrome Mapping Database
- Electronic Flight Bag (EFB) Application
- Planning & Mission Planning Data
- Tailored Worldwide Flight Procedure Coding



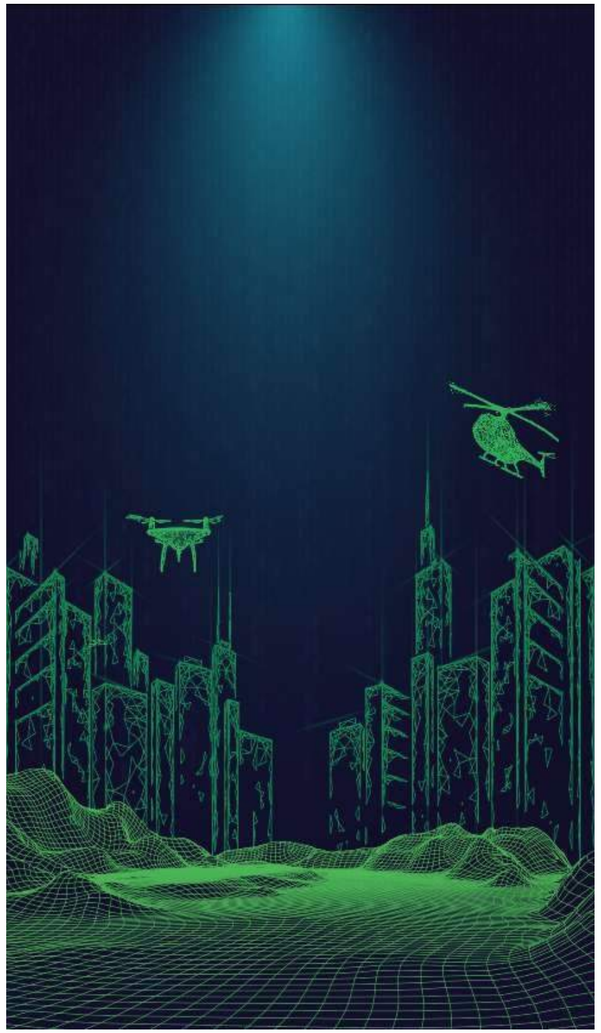
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DIGITALPilot

Applications

- Flight ManagementSystems(FMS) Flight and
- Route Analysis Systems Special
- Planning Applications
- Real-time Monitoring and Flight Simulators Flight
- Planning Systems and Applications
- Aircraft and Helicopter Electronic Flight Bag
- Systems Runway Data Required Systems
- Special Mission and Special Planning Applications
- Flight Procedure Design
- Data Visualization Solutions
- Compatibility with aircraft/helicopter systems
- Seamless integration with mission planning tools





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Secure Mission Tracking

Secure flight tracking is crucial in military operations, ensuring the safety, coordination, and success of missions. Military aircrafts must operate in highly dynamic and often hostile environments, where effective monitoring and control are essential. A secure flight tracking system provides real-time data on aircraft location, speed, and trajectory, which is vital for operational planning, coordination, and response to evolving situations.

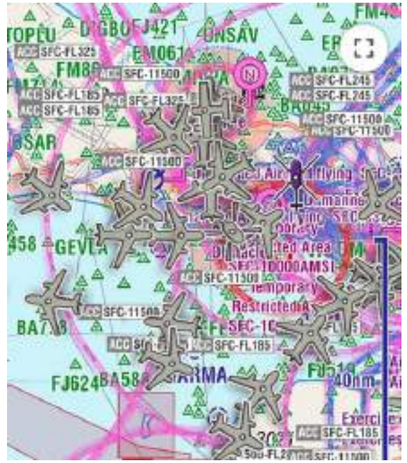
Moreover, during joint operations involving multiple branches or allied forces, secure flight tracking fosters interoperability and synchronization. It ensures that all units, whether air, ground, or naval, are on the same page regarding the position and movements of friendly forces, thus enhancing overall mission effectiveness and minimizing the chances of miscommunication or coordination errors.

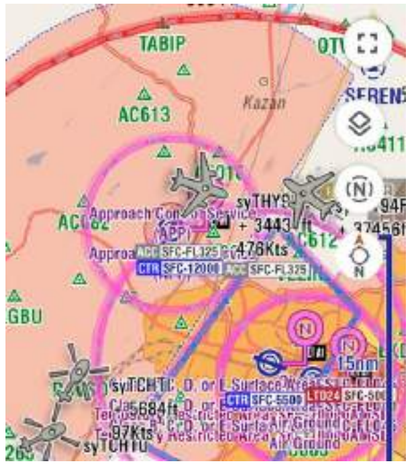


KEYVAN’s Operation Tracking System provides a critical advantages:

- Protecting Sensitive Operations
- Preventing Unauthorized Access
- Enhancing Operational Control
- Ensuring Data Integrity & Compliance







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Terrain Data

KEYVAN Aviation’s Terrain Data Services provide detailed elevation insights and geographic intelligence to enhance flight safety and operational planning. KEYVAN’s high-accuracy terrain data enhances situational awareness and ensures safe flight operations worldwide.

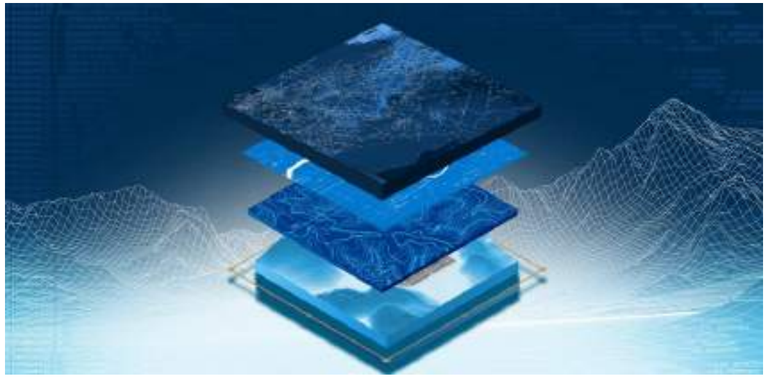
Comprehensive Elevation Data: Covers land variations, water bodies, forests, and mountainous regions critical for aviation operations.
Dedicated for Helicopter & Low-Level Operations: Tailored for helicopters, eVTOL (drones), rescue, humanitarian, and special missions.
Beyond Airport Boundaries: Unlike conventional databases, KEYVAN TOD ensures terrain awareness across urban, rural, and remote areas.
Regulatory Compliance: Fully adheres to ICAO Annex 15, EASA, EUROCONTROL, and FAA standards.
Regular Updates for Accuracy: Continuously refreshed with satellite imagery and official data sources for real- time reliability.

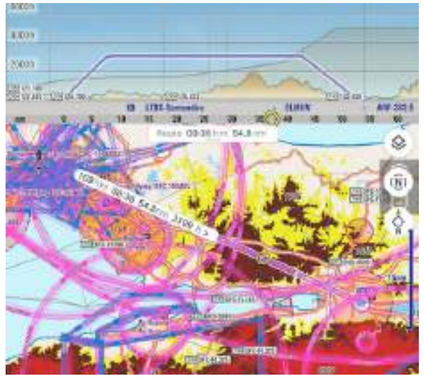
Obstacle Data

KEYVAN Aviation’s Obstacle Data Services provide high-precision obstacle mapping to support safe and compliant flight operations. Regularly updated with verified satellite data, KEYVAN’s Obstacle Database enhances flight safety and operational reliability.

Man-Made & Natural Obstacle Identification: Includes buildings, communication towers, wind turbines, bridges, cranes, and temporary obstructions.
Comprehensive Database for Flight Safety: Designed to enhance navigation, terrain avoidance, and regulatory compliance.
Detailed Obstacle Attributes:

- Obstacle Type: Classification (e.g., tower, building, bridge, wind turbine, crane).
- Geographic Coordinates: Precise latitude/longitude location.
- Elevation MSL (Mean Sea Level) & Height AGL (Above Ground Level).
- Coordinate Datum: Geodetic reference system for accurate positioning.
- Lighting Information: Identifies aviation warning lights where applicable.
- Vertical & Horizontal Accuracy: Ensures precise obstacle placement.







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DIGITALPilot

Plug-and-Play Implementation No Hardware Modifications Required

The KEYVAN Electronic Flight Bag (DIGITALPilot-DPilot) Appprovides real-time, mission-critical data to military pilots and operators, enhancing flight safety, operational efficiency, and decision making. Designed as a plug-and-play solution, it integrates seamlessly into existing military flight operations without requiring any hardware modifications.

This ensures:

Zero infrastructure costs:
No additional hardware installation or avionics changes required.

Immediate deployment:
Quick and secure software integration for military fleets.

Enhanced situational awareness:
Real-time aeronautical data, military charts, and mission-specific updates.

Secure and reliable:
Military-grade encryption for flight data and mission planning.



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Tailored Military Flight Procedure Coding

Our custom solutions are crafted to ensure compatibility with advanced military avionics and to support precise navigation under diverse operational conditions. By integrating cutting-edge technology and comprehensive data, our coding processes are capable of handling the unique challenges presented by military flight missions.

This includes generating flight procedures that accommodate the special requirements of tactical maneuvers, low-altitude flights, and operations in restricted airspace.

Each set of procedures is meticulously verified to comply with both national and international military aviation standards, ensuring that they provide the highest levels of safety and operational security.



Worldwide

SID, STAR,APPROACH Charts in digital or GEO PDF format.



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Digital Flight Charts

KEYVAN Aviation offering flight charts including with Hi and Low level airways charts , flight procedure charts (SID , STAR , APPROACH) in GEO PDF format and digital format.

The charts produced according to the specific standards and requirements and our team designed charts layout according to the pilot most required and interested template.

Avoiding to add unnecessary data , test and graphic elements on the map will help the pilot for comfortable usage from our generated charts.



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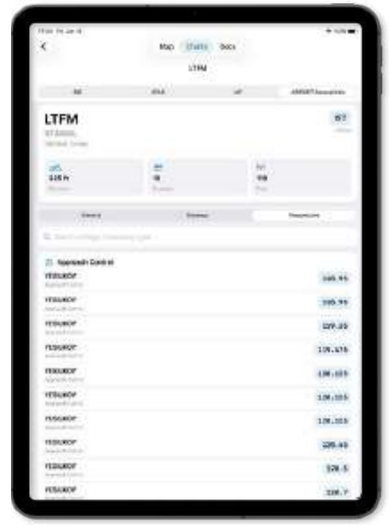
DIGITALPilot

Aeronautical Charts











METAR / TAF Charts









Digital NOTAMS





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Aeronautical Navigation Database For Government & Military



Special Activity Area
Database includes designated zones for military and governmental special activities.
Supports detailed planning and coordination for secure operations.



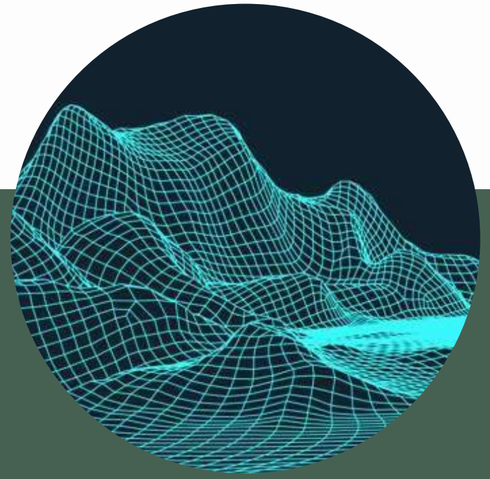
Restrictive Airspace
Entries detail areas with access limitations to enhance operational security.
Critical for safeguarding high-security operations and tactical missions.



TACAN-ONLY Navaids
Specific TACAN-only data entries for military precision in navigation.
Integral for operations requiring exact navigational guidance.

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Data Requirements For Successful Military & Government Operations



Obstacle & Terrain Data

Obstacle Data: Identifies Man-made Structures, Natural Features and Temporary Obstructions for safe navigation.

Terrain Data: Details on land elevation variations, information on bodies of water, forests, and other terrain features that may influence flight safety and operational planning.



Military Navigation Data

Strategic Airspace Management: Detailed information on Controlled, Restricted, and Special Military Airspaces crucial for operational security.

Communication Channels: Assigned frequencies and secure communication lines for coordination during complex missions.



Advanced Aviation Weather and NOTAM Data

Meteorological Insights (METAR/TAF): Delivers real-time meteorological terminal aviation routine weather reports (METAR) and terminal aerodrome forecasts (TAF), critical for operational planning and safety.

Real-Time NOTAM Updates: Provides international notices to airmen (NOTAMs) crucial for pre-flight and in-flight decision-making, ensuring awareness of temporary changes and hazards.

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Route Assignment and Airspace Management for Military and Government Operations



Tailored Flight Procedure Coding
Comprehensive coding of flight procedures for global aerodromes, focusing on military bases and government facilities.



Global Aerodrome Mapping Database
Extensive mapping of global aerodromes including military bases and government facilities.



Advanced Simulator Data
Realistic simulation data for comprehensive training on military aircraft and helicopters.

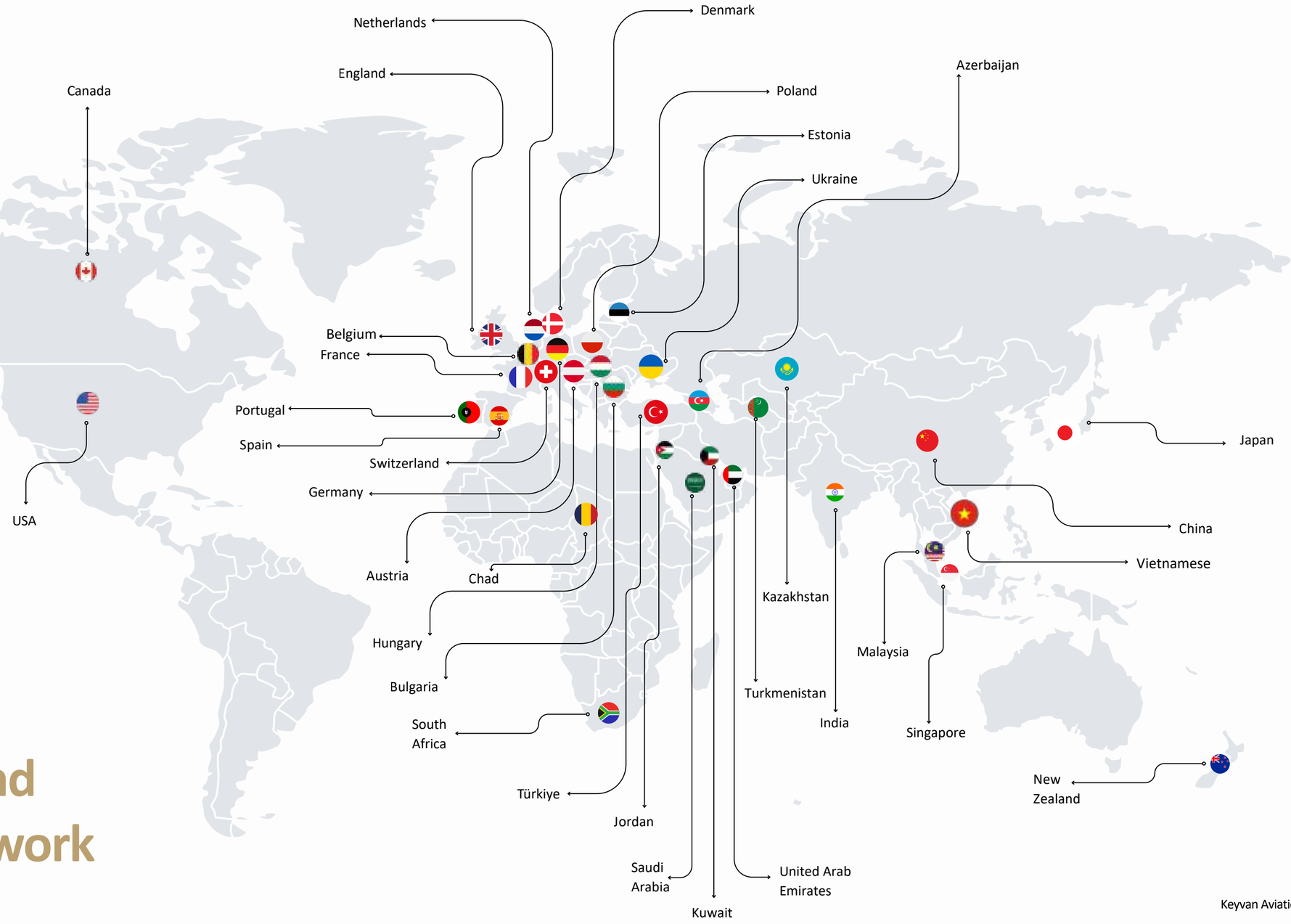


Integrated Flight and Mission Planning
Offers detailed flight and mission planning DATA tailored for military and government operations.

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MilOpsDATA by KEYVAN

THANK YOU

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