MISSION PLANNING SYSTEMS

Delivering a Full Range of Integrated Planning Services
The Boeing team provides a full range of mission planning services. We have extensive experience helping customers achieve readiness for traditional military missions, while also leveraging our capabilities to help them prepare for new planning challenges in military, humanitarian, and civilian applications.

Our core strength is integrating customer-owned hardware with state-of-the-art, Boeing-designed software. We are proud of our history of providing complete mission planning solutions—on-time and on-budget.

We are proud of our history of providing complete mission planning solutions—on-time and on-budget.
Committed to the Future of Mission Planning

Drawing from decades of Mission Planning experience and the resources of the Boeing enterprise, we are committed to developing the next generation of Mission Planning technology:

- Our understanding of aircraft and weapons planning, coupled with our support of Joint Mission Planning System (JMPS), will help the Air Force fully integrate and automate its force level planning system.
- Our experience with the Army Ground Systems will help us develop future command and control systems.
- Our background with unmanned aerial vehicles prepares us to transition mission planning activities to the Unmanned Aerial Vehicle (UAV) community.
- Boeing’s experience with battle networks such as NIPRNET, SIPRNET, Link-16, SINCGARS, as well as commercial aircraft communication systems, will help realize an integrated solution for homeland and border security.
A History of Mission Planning Success

Using the U.S. Air Force Mission Support System (AFMSS) Portable Flight Planning System (PFPS) or Joint Mission Planning System (JMPS), Boeing provides complete mission planning systems. Our team supports bombers, fighters, weapons systems unmanned air vehicles, special mission aircraft, and training aircraft including:

- B-2 & B-52
- F/A-18, EA-18G, F-15
- Joint Direct Attack Munition (JDAM), Small Diameter Bomb (SDB)
- Tomahawk Missile, Standoff Land Attack Missile Expanded Response (SLAM ER)
- P-8A
- P-3
- A-160 & S-100
Over 35 Years of Mission Planning Innovation


- International Flight Planning System (FliteStar/JetPlanner/MilPlanner)
- Tomahawk Mission Planning System (TMPS)/Afloat Planning System (APS)
- Military Aircraft Planning System (MAPS)/Deployable Aircraft Planning System (DAPS)
- Strategic/Conventional Mission Planning and Preparation System (SMDPS/CMPPS)
- Missle Planning System
- AEW&C MilPlanner
- Int’l C-17 MilPlanner
- Navy Portable Flight Planning Software (N PFPS)
- Air Force Mission Support System (AFMSS) A/W/Es
- C-130 Avionics Modernization Program Mission Planning
- Aircrew Readiness System
- AFMSS Core
- UAV Mission Planning/Control
- JMDPS Development, UPC Migration, Framework
- USAF VIPSAM Flight Planning
- Optimized Military Airlift Command (MAC) Computer Flight Planning
- AFMSS Core
- Optimized Military Airlift Command (MAC) Computer Flight Planning
- TOMPS Mission Planning Modules
Complete Bomber Mission Planning Systems

For 15 years, Boeing has successfully developed and delivered B-2 mission planning hardware, software, training and site support, on-time and within specification. We develop and deliver the mission planning system for the B-52 Avionics Mid-Life Improvement and Combat Network.

Communications Technology (CONECT) upgrades as well as and managing the development and delivery of the B-1 mission planning system on JMPS.

A History of Success with Tactical Aircraft

For nearly 25 years, Boeing has provided mission planning solutions for the F/A-18. We delivered F/A-18 mission planning solutions on the Tactical Automated Mission Planning System (TAMPS) and led the transition from TAMPS to the PC-based PFPS and JMPS products.

We continue to support and advance JMPS F/A-18 mission planning for the Navy, as well as many international customers. Boeing is the mission planning environment lead integrator for the advanced electronic attack capabilities of the EA-18G.

Since the 1980s, Boeing has been the prime contractor for mission planning systems for all domestic F-15 aircraft, as well as international F-15 variants. Boeing successfully integrated the U.S. Air Force migration of the F-15 Mission Planning System from the legacy Unix-based AFMSS to the PC-based JMPS.

We continue to advance mission planning solutions for F-15 JMPS for the latest Operational Flight Program suites and are the integrator for the F-15 Mission Planning Enterprise Contract (MPEC).
than 33 years. Tomahawk mission planning is currently fielded by the U.S. and British Navies and is integrated with the mission distribution system to provide an automated solution for mission planning and distribution that is focused on shipboard application.

Boeing has been responsible for developing mission planning for JDAM, SDB, SDB II, Harpoon and SLAM ER since the beginning of these programs. JDAM and SLAM ER mission planning applications have been successfully developed for international mission planning systems. Currently the team is developing a mission planning capability for the (MOP) weapon.

Boeing’s background with diverse weapon systems, from the Small Diameter Bomb (SDB), to the Massive Ordinance Penetrator (MOP), to complex missiles such as Tomahawk, Harpoon and SLAM ER, has provided us with a breadth of knowledge on these weapon systems and associated mission planning capabilities.

Our capabilities include route planning, launch region calculations, weapon simulations, image preparation for automatic target acquisition and network enabled weapon datalink planning.

Boeing has developed and sustained the Tomahawk Cruise Missile mission planning system for more than 33 years. Tomahawk mission planning is currently fielded by the U.S. and British Navies and is integrated with the mission distribution system to provide an automated solution for mission planning and distribution that is focused on shipboard application.

Boeing has been responsible for developing mission planning for JDAM, SDB, SDB II, Harpoon and SLAM ER since the beginning of these programs. JDAM and SLAM ER mission planning applications have been successfully developed for international mission planning systems. Currently the team is developing a mission planning capability for the (MOP) weapon.
Experienced with Unmanned Mission Planning Systems

Boeing is developing mission planning applications for Unmanned Air Systems (UAS) and has developed a prototype application for future unmanned systems that provide capabilities for planning contingency routes, takeoffs and departures from aircraft carriers using ship-relative waypoints. Boeing continues to develop and support UAS mission planning for the A-160 and S-100 systems.
Boeing was an early developer of aircraft and weapon-unique software for Portable Flight Planning System (PFPS). To support F/A-18 users on PFPS, Boeing developed the F/A-18 Data Loader, enabling loading of F/A-18 route and avionics information to a data cartridge for transfer to the aircraft and the F/A-18 Stores Calculator, which computed weight and drag information from user-supplied weapon load information.

For the JDAM, Boeing created the PFPS JDAM Weapon Planning Module which led users through the complete JDAM planning process, from input of initial conditions to validation of the weapon route.

Boeing also developed the mission planning system for the Comanche helicopter. The B-52 CONECT Mission Support System (COMSS) application resides on a PFPS PC and supports flight planning and map selection.
A wholly owned subsidiary of Boeing, Jeppesen provides its chart and navigational database libraries to all major militaries around the world. As military airlift, transport, and special mission requirements have evolved, military users operate more frequently in civil airspace environments as they conduct global humanitarian relief, peacekeeping, and combat operations, making the Jeppesen library a mission-critical requirement for the global military aviation community.

Jeppesen’s Electronic Flight Bag technology allows military operators to easily access Jeppesen’s library, moving maps in the en route and airport surface environments, allowing users to ensure that the right information is on the right flight deck for every mission. And Jeppesen’s MilPlanner is the militarized version of their commercial flight planning software that provides military users with a flight planning tool to effectively meet their strategic and deployment challenges.

Jeppesen’s 4-D route optimization engine enables military users to assure the highest level of mission completion while capturing significant fuel and time savings.