USE CASE

Simpler, Safer Flying with Electronic Flight Bags

Streamline and secure EFB management for air-gapped environments

Summary

Challenge

Bulky paper manuals and disconnected devices increase cockpit SWaP, delay pre-flight, and risk human error.

Solution

XD Tyton secures iOS and iPadOS-based EFBs, enabling real-time updates and streamlined operations.

Outcome

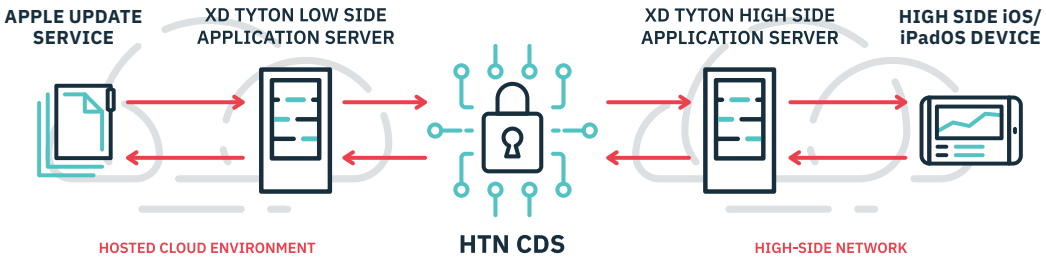
Reduced SWaP, enhanced data integrity, real-time updates, and compliance with DoD standards.

When Electronic Flight Bag Options Fall Short of the Mission

Flight crews have traditionally struggled with bulky, outdated paper manuals or disconnected commercial devices that lack secure access to mission data, especially for sensitive operations. This increases Space, Weight, and Power (SWaP) in the cockpit and forces pilots to manually re-enter critical data between flight planning systems and the aircraft, slowing pre-flight and raising the risk of human error. These inefficiencies delay departure, limit real-time situational awareness, and constrain responsiveness during high-consequence missions. An electronic flight bag (EFB)—a digital, typically tablet-based system—can replace paper charts, manuals, and performance calculations, giving pilots faster, more organized, and up-to-date operational information in the cockpit. However, many operators still haven't been able to deploy these capabilities on iPhone® and iPad® devices in their most security-sensitive environments.

Reduce Cockpit Burden and Error with XD Tyton™

Owl XD Tyton is a breakthrough solution that provides an approved secure gateway for iOS® and iPadOS® into air-gapped networks. XD Tyton is the first and only platform to deliver a secure way to manage and deploy classified iOS-based Electronic Flight Bags within defense aviation environments. It enables real-time, over-the-air updates to flight applications and mission data, eliminating manual entry and the risk of data spillage. By replacing paper manuals and disconnected devices with a compliant, lightweight solution, XD Tyton streamlines cockpit operations, reduces SWaP, and ensures that crews have timely access to accurate, classified information. The system enforces Raise the Bar standards and Zero Trust protocols, supporting operational agility and data integrity throughout sensitive missions.



OWL XD TYTON ARCHITECTURE

Results/Outcomes

→ **Reduced Cockpit SWaP:** Replaces heavy paper manuals and redundant hardware with a single, lightweight secure iOS device.

→ **Data Integrity:** Eliminates manual data entry errors by enabling secure digital transfer of flight plans and mission data.

→ **Real-Time Updates:** Facilitates secure over-the-air updates for flight charts, manuals, and mission-critical applications.

→ **Operational Agility:** Streamlines pre-flight procedures, allowing aircrews to deploy faster with the most current intelligence.

→ **Compliance Assurance:** Meets rigorous DoD security standards for operating commercial mobile devices in classified environments.

→ **Commercial-Grade Security at Scale:** Instead of relying on fragmented mobile platforms, XD Tyton leverages the same Apple servers and technology used by commercial customers, delivering constant software updates and the latest security protections from a leading mobile device provider.

XD Tyton™: Revolutionizing Secure Mobility

Owl's XD Tyton™, the first secure gateway for iPhone & iPad in closed networks, enables iOS and iPadOS devices to update securely within air-gapped environments by facilitating secure over-the-air (OTA) updates to keep iPhones and iPads protected, compliant, and mission-ready. When deployed alongside a compliant commercial High Threat Network (HTN) Cross Domain Solution (CDS), the integrated architecture meets the U.S. Government's Raise the Bar (RTB) and Commercial Solutions for Classified (CSfC) program requirements. XD Tyton can also integrate with Mobile Device Management (MDM) solutions for centralized device provisioning, policy enforcement, and streamlined management. XD Tyton, the first and only solution to secure closed and high risk networks, delivers connected and compliant mobility with iPhones and iPads performing critical missions spanning flight decks, field operations, and command centers.

OWL Cyber Defense™

Owl Cyber Defense Solutions, LLC, headquartered in Columbia, MD, leads the industry in data diode and cross-domain network cybersecurity solutions for faster, safer and smarter decision making. We create solutions tailored for high-risk sectors including the military, government and critical infrastructure. Our advanced technologies enable secure, near-instantaneous collaboration, bridging network barriers to protect critical missions. With a focus on scalability and interoperability, Owl ensures that organizations can maintain secure, reliable, and compliant communication channels against evolving cyber threats.

For more information on Owl, or to schedule a demo, visit **www.owlcyberdefense.com.**

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