XD Tyton™

Secure software updates for iPhone and iPad devices in mission-critical, classified networks.

Key Features

- → The only solution able to help securely enable cloud-based software updates for iPhones and iPads in air-gapped networks
- → Enables iOS and iPadOS devices to update securely when XD Tyton is deployed in High-Risk Network (HRN) mode.
- → Single, easy-to-use cockpit interface for managing update and authorization workflows for iPhone and iPad devices
- → Helps agencies support U.S. Government Raise the Bar requirements for high threat network connectivity when used with a compatible HTN CDS
- → Integrates with compatible COTS Mobile Device Management solutions to help secure provisioning, monitoring, and management of iPhones and iPads
- → Flexible configuration options for deployment as a complete solution or integration within existing architectures for diverse operational use cases

Building on more than a quarter-century of cross domain excellence, Owl's XD Tyton™ is a breakthrough solution that securely enables the transfer of cloud-based iOS™ and iPadOS™ software updates for iPhone™ and iPad™ devices operating in classified networks. The only solution of its kind, XD Tyton helps agencies establish controlled, security-enforced access to iOS and iPadOS for users in high-risk environments while preserving mission network defenses and leveraging the intuitive experience and long-term reliability of Apple's platforms.

Securing iOS and iPadOS Updates Across High-Risk Network Boundaries

The XD Tyton solution functions as a software-based protocol adapter that helps safeguard update and authorization workflows. When deployed in High-Risk Network (HRN) mode, XD Tyton uses its application servers and the surrounding cross-domain infrastructure to help secure iOS and iPadOS software update traffic for iPhone and iPad devices as it traverses high-risk network boundaries. It routes requests through a pair of application servers (one on the trusted network and one on the untrusted network) to securely receive, filter, and transfer software update packets. This architecture enables iPhones and iPads to obtain software updates in a way that mirrors commercial environments while respecting strict cross-domain controls.

With XD Tyton, agencies can provide iPhone and iPad users with the autonomy they expect and the user experience they prefer, while helping to protect sensitive missions with centralized control. XD Tyton supports consistent deployment of iOS and iPadOS software updates, and helps sustain secure, long-term use of iPhones and iPads in air-gapped environments.

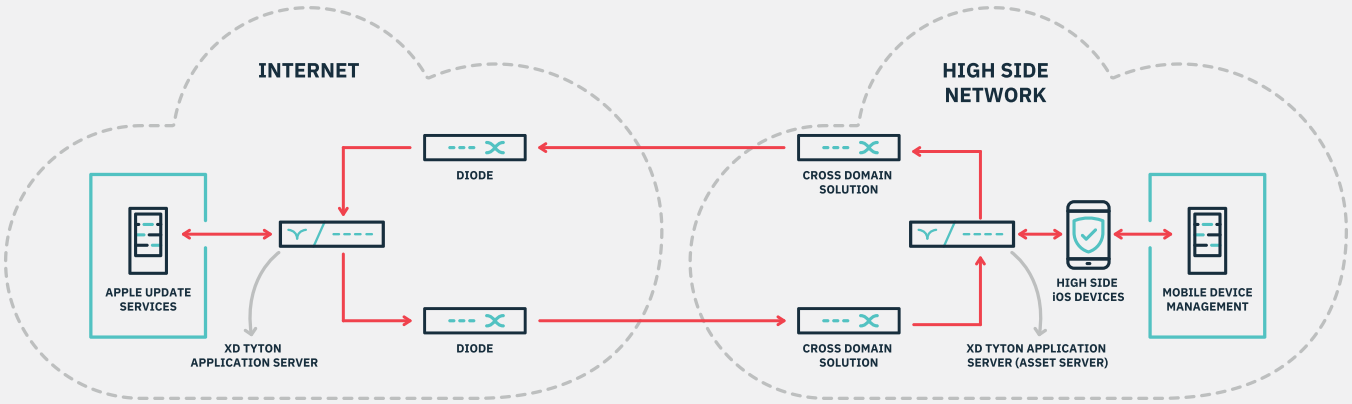
Better Together: Supporting HTN Connections & Centralized MDM

When XD Tyton is integrated with a compatible, U.S. Government-certified High Threat Network (HTN) Cross Domain Solution (CDS), agencies can meet the U.S. Government's Raise the Bar (RTB) program requirements for HTN connectivity and achieve protection from cyber threats from insecure networks.

By integrating XD Tyton with a compatible Mobile Device Management (MDM) solution for the enforcement of security policies, management of device settings, distribution of apps, and enablement of remote actions, agencies can realize secure, centralized management of all mobile devices.

How It Works

Typically, the process of receiving iOS and iPadOS updates includes the device detecting an available update, requesting and downloading the update file over public internet, seeking authorization to proceed with installation and once approved, completing the update. The below diagram illustrates how XD Tyton is introduced via low-side and high-side application servers on either side of a compatible HTN CDS. This architecture enables the secure roundtrip update data packets as XML, securing seamless iOS and iPadOS device updates that mirror the commercial environment data.



XD Tyton™ Solution Components

Owl XD Tyton Application

Critical for the handling of protocols required for iOS and iPadOS updates, the XD Tyton application is an all-in-one appliance that leverages 2x 1U COTS servers (one for high side, one for low side) an Asset Server (which sits on the high side server) and Owl's proprietary software.

RTB-Compliant HTN CDS

A compatible HTN CDS - like Owl Cyber Defense's HTN CDS - implements the required hardware-enforced data transfer and provides further filtering and inspection.

COTS MDM Solution

Deployed to centrally secure, monitor, and manage mobile devices, a compatible Mobile Device Management solution ensures data is protected and streamlines management of mobile devices in your environment.

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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