Flying Fox™

Detect PEDs with **zero** false positives

The U.S. Government has established policies, procedures and responsibilities for cyber security, assuring protected information and regulating the use of Portable Electronic Devices (PED) in restricted spaces, such as Sensitive Compartmented Information Facilities (SCIF). **Flying Fox helps you meet those requirements.**

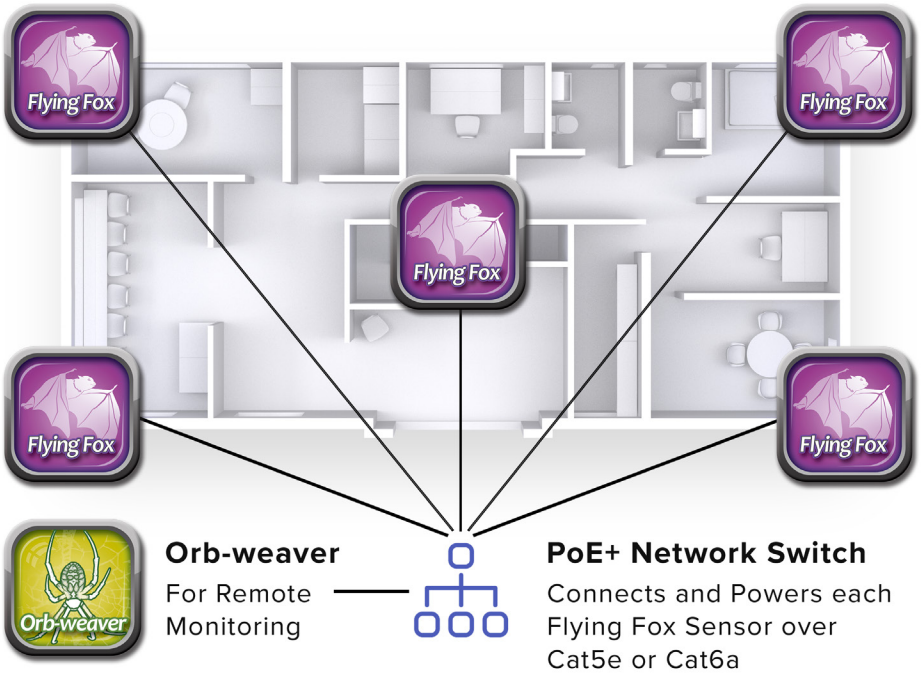
- Geolocation
- Cellular Band & Channel
- Cellular Provider
- Mobile ID During Access Request
- Signal Strength of Phone
- Timestamp

Epiq Solutions Flying Fox is an innovative sensor providing real-time passive detection, identification and location of nearby cellular, Bluetooth and Wi-Fi devices 24/7. Flying Fox is on the **DoD's Information Network Approved Product List (DoDIN APL)** and is in compliance with U.S. Government directives including U.S. Army **AR 380-28** and **DoD 8100.02**.

Flying Fox™ sensors were developed in collaboration with the Naval Research Lab's (NRL) Flying Squirrel* Program Office and provide unparalleled PASSIVE wireless device detection, identification, and location estimation capability.

Flying Fox leap-frogged all other cellular handset detection systems; our competition focuses on energy detection alone for detecting handsets without any verification that the detected signal is actually from a cellular device.

The Flying Fox demodulates and decodes the initial messages between a handset and tower. When Flying Fox indicates a phone is active, it is 100% sure.



Orb-weaver
For Remote Monitoring

PoE+ Network Switch
Connects and Powers each Flying Fox Sensor over Cat5e or Cat6a

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Flying Fox sensors operate with NRL's GOTS Orb-weaver software.

It provides unparalleled 24/7 passive monitoring, detection, identification, and location estimation of transmitting cellular, Bluetooth®, and Wi-Fi® devices.

Orb-Weaver is optimized for geolocation accuracy, and is available only to U.S. Government and Law Enforcement personnel.

What

- Dedicated Orb-Weaver wireless discovery network
- Uses multiple Flying Fox sensors throughout the monitoring area
- Sensors independently scan for wireless activity
- OA certified and accredited

Capabilities

- 24/7 Passive monitoring, detection and ID
- Detects, decodes cellular devices' Mobile Subscriber Identity
- Zero False-Positive detection
- Automatic cellular survey to determine cellular (2g/3g/4g) providers

Requirements (Why)

- DoD Directive 8100.02: Use of Commercial Wireless Devices, Services and Technologies in DoD GIG
- Army Regulation 380-28: Army Sensitive Compartmented Information Security Program
- DHS Management Directive 11021: Portable Electronic Devices In SCI Facilities

Reliability

- Flying Fox sensors were developed in collaboration with the Naval Research Lab's Flying Squirrel Program Office for unparalleled passive wireless device detection, ID and location estimation capability.
- The sensor demodulates and decodes initial messages between a handset and tower. When Flying Fox indicates a phone is active, it is 100% sure. Zero False Positives!

KEY SYSTEM DETAILS

- Detect, Identify, Locate radio transmissions from any cellular, Wi-Fi® and Bluetooth® devices
- Carrier and band agnostic (works with U.S. and international mobile providers)
- Advanced cellular processing capability supports 4G (LTE), 3G (UMTS/WCDMA), and 2G (GSM, CDMA2000)
- Future-proof software-defined radio (SDR) architecture
- Wi-Fi® capability supports 802.11 a/b/g/n for both 2.4 GHz and 5 GHz bands
- Integrated self-calibration feature for improved geolocation accuracy

KEY FLYING FOX SENSOR DETAILS

- Typical cellular detection sensitivity: -95 dBm
- Single RJ45 ethernet interface supporting IEEE (PoE+) for power and network connectivity
- Separate SMA interfaces for cellular and Wi-Fi® / Bluetooth® antennas
- Compact size: 6.5" x 4.2" x 1.5"
- Typical power consumption: 22W
- Internal fan for active cooling

**Flying Squirrel, a DoD wireless discovery and mapping application, is Government OffThe Shelf (GOTS) software developed by the Naval Research Laboratory, and is for use by US Government organizations for Official Use Only, including DoD, law enforcement and the Federal community.*