

CAESkyDeploy

Overview

In the fight against wildfires, and to prevent forest fires from spreading, early detection is crucial. Fire detection pilots play an essential role in this effort, often flying solo for hours to scan large areas of forest for the first sign of a fire. The role of the pilot is to confirm the exact location of the fire using GPS coordinates.

CAE SkyDeploy helps pilots concentrate on their tasks, providing accurate, timely in-flight information and precise search capabilities to enable them to concentrate on the search.

CAE SkyDeploy

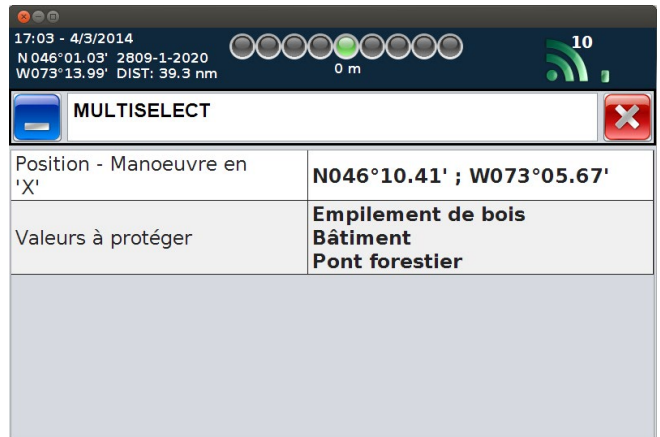
A scalable mission management and satellite communication system (Iridium Certus constellation), CAE SkyDeploy can be used for

- air-ground-air communication
- fleet monitoring,
- voice communication
- data transfer

The system allows the pilot or observer to document and report, in real-time using custom-designed reports, airborne observations such as weather conditions, ground situations, fire conditions, infrastructures to protect, detect, locate and communicate.

CAE SkyDeploy can be used on the ground by forest firefighters or intervention groups, in addition to traditional communication systems. CAE SkyDeploy offers route management, user-defined ground observation reports, and aircraft positioning capabilities.

The system is designed to help aircrews and ground control personnel make timely decisions based on real-time data.



CAE SkyDeploy Features

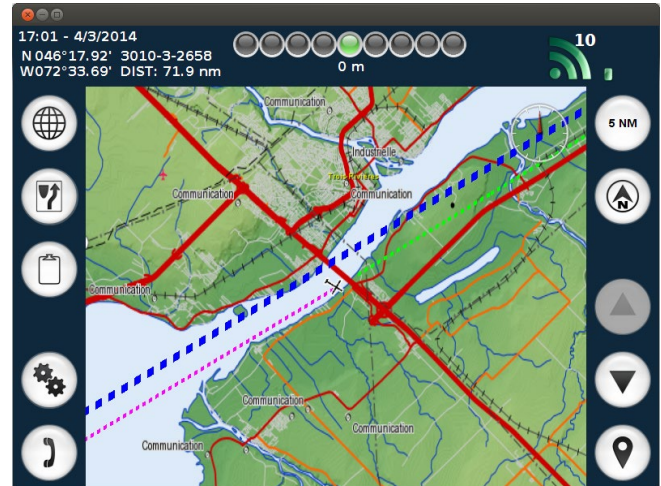
- Command and Control system (C2) for aircraft fleet, personnel on ground, situational awareness
- Multi-function computer system
- Assisted event/observation report generation and transmission
- Iridium Certus constellation-based satellite phone
- Commercial Off-the-shelves (COTS) components
- Highly flexible and scalable mission management and communication system
- Increased mission capability by adding sensors
- Adaptable to most fleets of manned aircraft (No STC required)
- Multi-scale moving map

CAESkyDeploy enables improved situational awareness to the command center for effective and efficient planning and response.

CAE SkyDeploy Benefits

Proven, low-cost mission management and satellite communication system:

- Voice and data, bi-directional
- Real-time position reporting
- Accurate and detailed reporting
- Easy to use with accurate location marking
- Satellite phone system provides global communication coverage



Experience and Applications

CAE SkyDeploy was originally designed for the Société de protection des forêts contre le feu (SOPFEU) in Quebec, Canada, for its fleet of 29 wildfire detection aircraft to provide reliable and real-time position information on new wildfires, once reported.



With CAE SkyDeploy's scalable moving map display, the aircrew can precisely follow the displayed search pattern and receive in-flight search pattern updates from the ground control center. The system has a built-in function for accurately marking the location of wildfires or smoke and menu-driven reports are automatically transmitted via Satcom to the ground control center.

Other applications of CAE SkyDeploy could include search and rescue patterns, fisheries patrols to send reports on each fishing vessel encountered, iceberg tracking and reporting, or usage in any mobile application (air, sea, or ground) to transmit information from remote areas to a central control location.

CAE SkyDeploy - an essential tool in the fight against wildfires.