

# CF-18 ACMI

## Air Combat Training System

Providing Advanced ACMI Training for Canadian Forces

The Canadian Forces' Air Combat Maneuvering Instrumentation System (CF-18 ACMI) provides enhanced air combat training capabilities for Canada's Exercise "Maple Flag" – one of the world's largest multinational, joint air combat exercises held annually at the Cold Lake Air Weapons Range. The system also supports daily squadron-level operations.

The CF-18 ACMI system incorporates advanced rangeless GPS technology, a capability that allows pilots to train in any available airspace without reliance on a fixed range.



*The mobile pods contain avionics that track and record aircraft events and position..*



The system also features aircraft position and simulated air-to-air, air-to-ground, and ground-to-air weapons employment with GPS accuracy and realtime monitoring capabilities.

The CF-18 ACMI integrates rangeless capability with an electronic warfare system. The Surface Threat Electronic Warfare (STEW) system simulates surface-to-air missiles and other ground-to-air threats.

The main components of the CF-18 ACMI system are the instrumentation pods loaded onto aircraft – much like an actual missile – and display systems that provide the tactical aircraft picture. The mobile pods contain avionics that track and record aircraft events and position. The display system, called the Individual Combat Aircrew Display System (ICADS™), allows personnel to control, track and monitor the exercises in real time as well as post-mission debriefs.

The Cubic ACMI is displayed in an amphitheater-type debrief setting with a movie theater-size screen. This allows over 100 pilots and aircrew members to debrief in a common setting. Cubic installed the Canadian Forces' first ACMI in 1982. In 2001, Cubic installed the current rangeless system at both 4 Wing in Cold Lake and at Bagotville.