

IFAD develops and markets training solutions for mission-critical defense applications.



# IFACTS

FORWARD AIR CONTROLLER TRAINER



*IFACTS* (IFAD Forward Air Controller Training Solution) is a deployable, PC-based solution that enables Close Air Support procedure training - *Anywhere and Anytime*.

### ***Cost-effective training***

The *IFACTS* solution helps military services to cope with a growing demand for mission ready ground commanders.

Traditionally forward air controllers have been forced to rely only on expensive and limited real-life training. With *IFACTS* training effectiveness is increased, and operational costs, impact on the environment and reliance on the weather is reduced.

### ***Realistic CAS training***

With *IFACTS* training activities are enabled, which would otherwise be impossible to practice, except for in actual combat.

Forward air controllers exercise realistic true-to-life scenarios, e.g. Convoy Escort, Show of Force, Talk-On and Engagements. High and Low Level CAS procedures are rehearsed in all weather conditions - day or night.

**IFACTS**  
FORWARD AIR CONTROLLER TRAINER



## ***Simulation-based Close Air Support training***

*IFACTS* is a deployable, PC-based system for training and practicing the direction of close air support, providing a synthetic environment within which the Forward Air Controller can control aircraft missions using simulated equipment and communications. The *IFACTS* solution can be established either in the classroom environment or deployed. It can be stand-alone or networked for complete Tactical Air Control Parties (TACP).

## ***Individual or collective training***

*IFACTS* provides users with the capability to train Close Air Support mission TTP (Tactics, Techniques and Procedures) at a wide range of levels from individual FACs up to complete CAS teams.

## ***Day and Night CAS training***

The *IFACTS* solution provides for day as well as night CAS training. The solution's FAC and pilot stations both support night CAS training with simulated equipment such as IR pointers, head strobes, smoke grenades, thermal vision and night vision goggles. The Forward Air Controller uses IR Pointer procedures to mark the target. In the pilots view the IR pointer beam is seen on the ground. IR Head strobe light shows the position of the FAC. In addition the pilot has a view of the target area through his targeting POD. The Forward Air Controller receives Targeting POD images from the aircraft as a ROVER feed.

## ***Simulated equipment***

*IFACTS* has simulated equipment for target identification and designation, e.g. GPS, ground laser target designators, laser range finders, binoculars, NVG, compass, thermal equipment and ROVER. By using this equipment the FAC can carry out high level as well as low level Close Air Support procedures, i.e. analyse the situation, identify targets, do measurements, produce 9-liners, communicate with the pilots, carry out talk-on's or lead-in's, mark targets, and do laser guided weapon control. All simulated equipment can easily be replaced by new equipment the customer might want to introduce, e.g. newer versions or other types of laser targeting equipment etc.

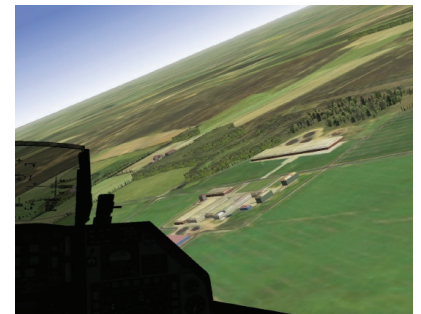
## ***Pilot-in-the-Loop ('Instructor pilots' and real pilots)***

The *IFACTS* solution can be used with the *IFACTS* 'Easy-to-Fly' aircraft controlled by the instructor who acts as a pilot; or it can be used with a real pilot controlling a flight simulator connected to *IFACTS*, or it can be used in a combination with both. The 'Easy-to-Fly' pilot station makes a large number of aircraft available to the operator ('pilot'), e.g. single or 4-ship formations. Each aircraft can be defined by the instructor with its own individual configuration and control. All 'Easy-to-Fly' aircraft have realistic flight and weapon delivery characteristics. The Forward Air Controller and the pilots communicate via a simulated radio communication system (IRAS Comm).



## Interoperability

*IFACTS* is a flexible solution that is available in many different configurations. Building on modern interoperability technology *IFACTS* provides networked training, locally as well as geographically distributed. Systems communicate over LAN and WAN connections. *IFACTS* is based on the interoperability protocols HLA and DIS. This technology enables you to have several FAC stations and/or pilot stations working together simultaneously in a distributed network configuration and networked with other 3rd party solutions. It offers rapid integration of systems at a low risk to the customer.



## 3rd Party solutions

*IFACTS* works with several 3rd party solutions including flight simulators, armoured vehicle simulators (e.g. Steel Beasts), battle management systems (e.g. Sitaware), and battlefield simulators (e.g. VRForces and JCATS). Computer Generated Forces (CGFs) are used to control other units, e.g. enemy units, including people, vehicles, helicopters, aircraft and tanks.



## COTS and standard technology

The *IFACTS* solution makes use of standard technology and COTS (Commercial Off The Shelf) thereby providing for flexibility, scalability and low-risk to the customers.

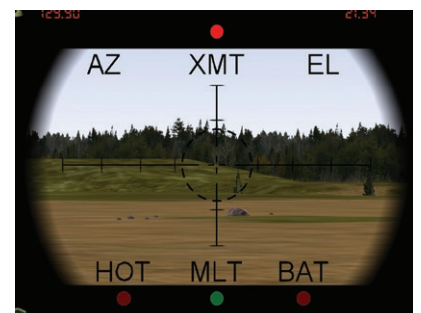


## Close Air Support standards

*IFACTS* meets requirements from combat experienced FACs, and enables training in accordance with CAS standards, such as NATO STANAG 3797 and US JP 3-09.

## Innovative solution

This innovative solution is part of IFADs customer-focussed approach to successful mission critical training.





## ***About us***

IFAD is a professional provider of

- Simulation & training solutions
- Networked simulation solutions
- Customer specific training solutions

to Defence and Homeland Security markets.

## ***Our values***

### **Knowledge**

IFAD is an 25 years old knowledge-based company located in Odense, Denmark. The company is 100 % Danish owned.

### **Leadership**

IFAD was founded on quality, technical excellence, and leadership. Building on 25+ years of innovation, IFAD assists companies and organizations world-wide in getting the best out of their mission critical software applications and human training programs.

### **Motivation**

IFAD is recognized as a very loyal, motivated and competent partner supplying quality solutions and products that meet or exceed our customers' expectations.

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