

# News letter



## J-SAR, a new product from IFAD

Joint Search And Rescue Trainer (J-SAR) is a new training system where rescue operations are trained in a simulated environment. J-SAR responds to a need from Joint Rescue Coordination Centers (JRCCs) or Maritime Rescue Coordination Centers (MRCCs) and focuses on the operational units or headquarters, carrying out rescue operations at sea, or in the air.

With J-SAR, all roles in the rescue centers' situation rooms are trained so that operators can receive realistic training in planning, coordination and execution of rescue operations. The J-SAR solution is developed on basis of IFAD's tactical maritime training solution INTS, which is aimed at naval units and training of tactical operations. Based on this, a J-SAR solution has been developed that is focused on training personnel and units carrying out rescue operations.

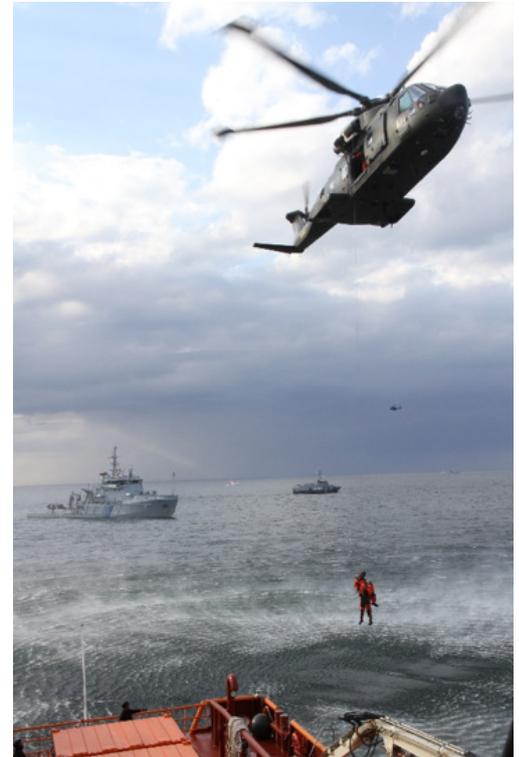


Photo: The Danish Defence photo Gallery



## CAE USA extends contract

Based on many years of successful cooperation, CAE USA has chosen to expand its cooperation with IFAD.

In 2015, CAE USA selected IFAD as a subcontractor for In-country Contractor, Operation and Maintenance Services (COMS) of the Seahawk MH-60R simulator that is operational in Karup. The simulator has worked extremely satisfactorily over the first five years, with an uptime of 99.5%.

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CAE USA has awarded a new 5-year COMS contract to IFAD in 2021. This contract, which is part of CAE USA's industrial cooperation projects in Denmark have been approved by the Danish Business Authority (DBA).



*"The partnership with CAE USA represents a solid, long-term business opportunity for IFAD. We work together with one of the world's leading simulation and training companies and will have the opportunity to provide solutions for the benefit of the Danish Defence", says Benny Graff Mortensen, CEO of IFAD.*

IFAD has also under a separate CAE contract, expanded INTS with helicopter-specific functionalities. This version is part of the Seahawk simulator's instructor station and is used, among other things, to build, execute and monitor scenarios.

In January 2022, CAE USA awarded a second contract to IFAD for further extensions of the INTS product.

### **About the Danish Maritime Helicopter Program**

The Danish Armed Forces has acquired maritime MH-60R Seahawk helicopters. As part of the package a 'full-mission, full-motion' simulator for training pilots and sensor operators was acquired. CAE USA, a subsidiary of CAE Inc. based in Montreal, Canada, develops, manufactures and sells the MH-60R simulator.



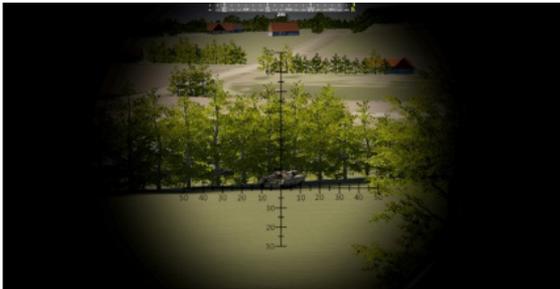
### **IFACTS2 release**

IFACTS has been updated with a new "Gaming engine". The previous 'engine' provided some graphic challenges in terms of landscape visibility and usability of observation tools. The new version, called IFACTS2, has a much better and more realistic graphics on the user interface and a noticeably better user experience.



With the new product, landscapes, environments and infrastructure are much more realistic in terms and appearance. For example, shadows, vegetation, trees, effects and animated towers on tanks etc. appear much clearer, more realistic and effective.

In addition, it is now significantly easier to deliver new terrain and develop on landscapes, buildings, vehicles, ships, aircraft and drones, etc.



Photos: Screenshots from IFADTS2

## ***New Functionality***

IFADTS2 is implemented with a Unity engine. The product, with several improvements, development of new functionality, and a division into separate pilot and JTAC station, was released to the market by the end of 2021.

## ***Portugal buys DART F-16 Simulator***

The Portuguese Air Force (PRTAF) has awarded a contract to IFAD for the purchase of a new tactical F-16 simulator training center. Together with the subcontractor Arenalogic ApS (AL), IFAD has been selected as provider of the Deployable Affordable Readiness Trainer (DART). DART is a combined F-16 and JTAC/GCI training center aimed to support the Portuguese defense forces in training and training their

- F-16 pilots in tactical Air-to-Air (A/A) and Air-to-Ground (A/G) operations
- Joint Terminal Attack Controllers (JTAC) in Close Air Support (CAS) operations
- Ground Controlled Intercept (GCI) personnel in Air-Battle-Management operations.

IFAD and AL have jointly developed DART for the Royal Danish Air Force (RDAF), where the system has been in successful operation for several years. PRTAF has purchased the DART system as a standard solution with additions based on specific PRTAF needs (a DART-PT version). The system is delivered in the fourth quarter of 2022 and will be followed by a support and development phase in 2023.

### **Facts about the DART-PT version:**

- 4 F-16 Air Combat Trainer simulators (F-16 ACT)
- 2 F-16 instructor stations (F-INSTR, IoS)
- 2 JTAC training systems (IFACTS2)
- Radio simulator solutions (IRAS-PRO)
- Gateways (ISIM Bridge)

### **DART-PT comes with:**

- 4 "Cave" visual systems
- 4 specially designed cockpits
- 4 hands-on-throttle-and-stick (HOTAS)
- 4 "Helmet Mounted Cueing and Sighting" (JHMCS) "head tracking" systems
- Various PCs, monitors, headsets, etc.



### **DART provides realistic and effective mission-oriented training**

- Tactical F-16 pilot training (basic and advanced, as well as A/A and A/G)
- Simulation of all Portuguese F-16 weapon systems (A/A and A/G)
- Simulation of Litening G4 ATGP "targeting pod"
- Link-16 simulation
- Enables joint training with JTACs and joint operations (GCI) in real time
- Enables co-training with other simulator centers across geography
- Enables co-training with real aircraft and real GCI stations using LVC (Live-Virtual-Constructive)
- Training with Night Vision Google (NVG) and JHMCS.

In connection with the order from PRTAF, Benny Graff Mortensen, CEO of IFAD stated:

*"This is an important order for us. We very much look forward to cooperation with the Portuguese Air Force. We are committed to maintaining our technology and expertise for the benefit of our military users, and we are confident that we will meet PRTAF's need for a groundbreaking F-16 simulator training system."*



*Photos: Courtesy of the RDAF*

### ***DART - a competitive F-16 training solution***

DART is a fully developed F-16 tactical training system with the possibility of national adaptations. The DART solution is now available on the international market for current and future F-16 user nations. The system is highly competitive in terms of training value, functionality and price..

### ***Contact IFAD TS A/S***

Representatives from the user environment are at all times welcome to contact us in relation to the exchange of ideas and proposals for improving all our products.

If there are posts for the newsletter, it is also very welcome.

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