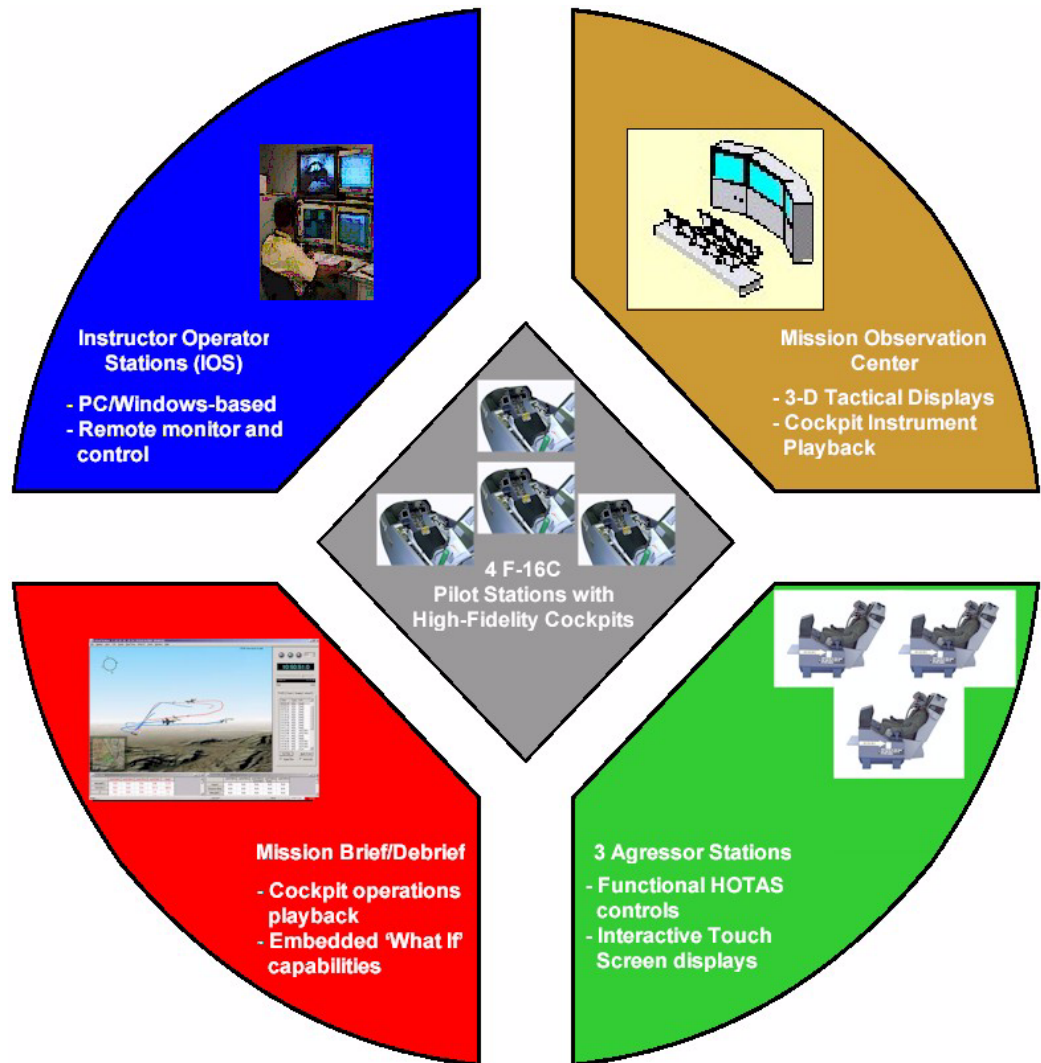


## Ajax - F-16C Strategic Training System



*The AJAX STS:  
affordable and effective  
distributed mission  
training.*



"Highly affordable, highly effective." Those are the two goals we had in mind when we designed the AJAX Strategic Training System (STS). AJAX provides a dramatic increase in training effectiveness. At the same time, AJAX uses the latest in COTS and PC-based technology to reduce the cost of acquisition and support.

Using high-fidelity F-16C simulators, AJAX provides realistic four-ship training in a distributed, interactive environment.

## Thor Strategic Training System

### F-16C Pilot Stations

The AJAX pilot stations consist of the proven systems used in our high-fidelity F-16 Pilot Training Systems (PTS). The PTS is a full mission trainer using the latest in COTS open architecture. Each pilot station provides a 360 x 70 degree Out The Window (OTW) display using nine high-performance Image Generator (IG) channels with a resolution of 2048 x 1536 pixels overall.



### Aggressor Stations

The AJAX aggressors can be computer generated or, using the three aggressor stations, experienced pilots can engage the trainees in simulated air-to-air combat. Each aggressor station consists of a functional HOTAS control system and interactive touch screen displays displaying the OTW display and functional ICP/MFDs. Aural and visual cueing are identical to the aircraft simulated. Available aggressor aircraft include F-16, F-15, F/A-18, F-4, A-4, AV8, Grippen, Mig-21, Mig-23, Mig-25, Mig-29, Su-24, Su-27, Mirage 2000, Predator UAV, Apache, Cobra, and Mi-24.

### Instructor Operator Stations (IOS)

Two IOS are included with the AJAX system. Each IOS can monitor or control any of the four F-16 pilot stations. In addition, any asset, threat or networked exercise can be controlled from either IOS. The IOS interface is Microsoft Windows and is object oriented with drag and drop support for controlling entities and scenarios. In addition, each IOS contains a robust AWACS control and Identify Friend Foe (IFF) interface with full broadcast control.

### Brief/Debrief Station

AJAX Brief/Debrief greatly enhances mission performance by reenacting mission activities using high fidelity 3-D graphics, allowing pilots and weapons officers to quickly identify and correct mistakes. Crucial flight information is also displayed, maximizing feedback lesson retention.

The AJAX Brief/Debrief station is extremely user-friendly, offering offline and real-time viewing, various viewpoints, flight video-audio-data synchronization linked to a single timeline, and advanced ACMI capabilities based on high resolution terrain.

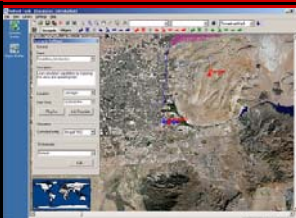
Additional benefits of the Brief/Debrief station include: improved situational awareness, cockpit operations playback, pilot's view monitoring and playback of Head Mounted Display, digital and analog video/audio/data playback, and embedded 'What If' capabilities.

### Mission Observation Center

A complete Mission Observation Center allows interested parties to view mission progress as well as monitor brief/debrief status. Additionally, duplicates of the pilot and aggressor station cockpit and visual displays are presented.

### Terrain and Navaid Databases

All databases include aerial and satellite imagery mapped onto real-world elevation data. You can produce your own terrain using the Terrain Author (TA) tool. After entering imagery and elevation data, TA converts the information into high-fidelity terrain.



## Thor Strategic Training System

### Distributed Mission Training (DMT)

DMT connectivity with AJAX allows the environment to host DMT training missions or connect to other DMT simulators. When AJAX hosts a DMT mission, a native Simulation Instruction tool allows AJAX instructors to set the parameters and mission goals of each training scenario. This control includes: - student monitoring, flight control over student aircraft, oral and/or written messages, outline avionics instruments in student cockpits, 2-D Map, ACMI viewing, record and playback for debriefing, and 'What If' capabilities.

### Knowledge Center

The Knowledge Center provides a database for all student reading material. The self-learning center affords users the opportunity to learn at their own pace. Providing all the benefits of eLearning with offline capabilities as well.

The Knowledge Center is comprised of:

- Library - a digital database of all books, manuals, and other relevant information.
- Tests - multiple-choice tests which can be mandatory, or self-tests for personal review.
- Tips - tips can range from anything such as NOTAMS prior to takeoff pointers to heads-up messages.
- Tutorials - Presentations presented concisely for the student with little spare time.
- Read & Sign - Required reading posted by the instructor which each student must complete and digitally sign.

### Scenario Builder

Scenario Builder allows either the instructor or student to choose the location and objects of a training scenario. By allowing the user to directly manipulate the simulation environment, AJAX places control directly in the hands of the user, increasing readiness, and making training far more effective and retentive.

With the Scenario Builder, you can determine all of a mission's variables including geographic coordinates, weather, time of day, and wind conditions.

### Object Builder

The Object Builder allows you to create, delete, duplicate, or manipulate any object in the AJAX library. Objects include aircraft, runways, buildings, weapons, ground threats, ships, etc.

### Common Questions About AJAX

Q: Is AJAX HLA certified and, if so, for what version?

A: Yes, HLA V1.3

Q: What blocks of F-16 are modeled?

A: F-16 radar, weapons, and countermeasures are fully implemented for block 40/42, MLU 40, and block 50/52.

Q: Is AJAX available under a fee-for-service arrangement?

A: Yes, AJAX can be purchased outright or under a fee-for-service agreement.

Q: Are there current government users of your systems?

A: Yes, USAF, USN, US ANG, ACC, AFRES, and AFSOC.

*For more information contact:*

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