Joint Terminal Control Training & Rehearsal System (JTC TRS)

Lt Col Dan Hodgkiss
Organization: 677 AESG/TO
Phone: 937-255-3801
Email: daniel.hodgkiss@wpafb.af.mil
Date: 15 May 2007

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# JTC TRS

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## Description

- The Joint Terminal Control Training & Rehearsal System (JTC TRS) is a mission simulation system that has joint applicability for training Terminal Attack Control (TAC) personnel in all services
- Basic Requirement System must train: Terminal Attack Control; Fire Support Coordination; Air Traffic Control (Landing Zone: Take-Off, Taxi, Landing, Park, Drop Zones: Paratroops, Cargo) and Mission Rehearsal
- Multiple configurations to meet student type and location needs (Fixed, Portable, Dome)
- Over 80 potential trainers at more than 35 CAF locations + plus other services

## Acquisition Strategy

- Contract vehicle: TBD
- Competition Environment: TBD based on market research
- Number of awards: TBD based on market research

## Funding

- Funds include 3600, 3080 and 3400.
- Program is partially funded in FY08 POM with plans to fully fund in FY10 POM. Full program requirement is currently estimated at $75M for CAF assets only. New estimate reqd.

## Program Office Point of Contact

<table>
<thead>
<tr>
<th>Name:</th>
<th>Major Michael Conway</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization:</td>
<td>677 AESG/TO</td>
</tr>
<tr>
<td>Phone:</td>
<td>937-255-8799</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:Charlene.Jeong@wpafba.f.mil">Charlene.Jeong@wpafba.f.mil</a></td>
</tr>
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## Procurement Authority Point of Contact

<table>
<thead>
<tr>
<th>Name:</th>
<th>Ms. Charlene Jeong</th>
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</thead>
<tbody>
<tr>
<td>Organization:</td>
<td>677 AESG/TO</td>
</tr>
<tr>
<td>Phone:</td>
<td>937-255-4955</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:Charlene.Jeong@wpafba.f.mil">Charlene.Jeong@wpafba.f.mil</a></td>
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</table>

## Period of Performance

- FY08 – FY12 with potential to FY16

## Data Status

- Mixture of government owned and proprietary contractor data

## Milestones

<table>
<thead>
<tr>
<th>Industry day – 24 May 2007</th>
<th>Draft RFP – Late Summer 2007</th>
<th>RFP – Fall 2007</th>
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<tbody>
<tr>
<td>Contract Award – FY09/Q2</td>
<td>First delivery – FY09/Q1</td>
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</tbody>
</table>
Joint Theater Air Ground Simulation System (JTAGSS)

Lt Col Dan Hodgkiss
Organization: 677 AESG/TO
Phone: 937-255-3801
Email: daniel.hodgkiss@wpafb.af.mil
Date: 15 May 2007

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# JTAGSS

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## Description
- USAF JCAS virtual & constructive sim system; link to USA C2 systems for recurring Joint Fires training
- Stimulate actual C2 systems using simulation w/common terrain databases
- Network ASOC & TACP trainers with Fire Support Cell and Airspace C2 for combined battle staff training
- Network JTAC trainer for coordinated virtual Joint Fires training
- Train joint team on JCAS process; use intelligent agents to fill C2 functional gaps where appropriate
- Review and performance measurement AAR capability

## Acquisition Strategy
- Contract type: TBD based on market research
- Competitive Environment: TBD based on market research
- Number of Awards: TBD based on strategy

## Funding
- Currently unfunded. To be addressed in FY10 POM

## Program Office Point of Contact
| Name:          | Major Michael Conway |
| Organization:  | 677 AESG/TO          |
| Phone:         | 937-255-8799         |
| Email:         | Michael.Conway@wpafb.af.mil |

## Procurement Authority Point of Contact
| Name:          | Ms. Charlene Jeong   |
| Organization:  | 677 AESG/TO          |
| Phone:         | 937-255-4955         |
| Email:         | Charlene.Jeong@wpafba.f.mil |

## Period of Performance
- TBD. Will probably not start any earlier than FY10.

## Milestones
- FY10 - Connect JTAC and CAS aircraft trainers with ASOC training system (JTAGSS) and USA FSC & AC2
- FY11 - Add AOC to training network
- FY12 - Full Live-Virtual-Constructive Joint Fires training capability in a Joint National Training Capability environment

## Data Status
- TBD
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**F-15C Mission Training Center (MTC)**

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### Description

- The F-15C MTC program consists of simulation system capability provided through the use of a MTC that contains high fidelity cockpits, instructor/operator stations, brief/debrief capabilities, threat stations, command and control stations, a realistic combat environment and DMO Network capability. The ACC aircrews may perform any or all functions identified in the Master Training Task List associated with flying solo or multi-ship missions from mission planning through mission debrief. The capability to simulate all functions associated with all aspects of full spectrum F-15C training and wartime missions are present.

### Acquisition Strategy

- Competition
- Source Selection for Development, Production, CLS

### Program Office Point of Contact

<table>
<thead>
<tr>
<th>Name:</th>
<th>Arlington F. Harrer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization:</td>
<td>677 AESG/TO</td>
</tr>
<tr>
<td>Phone:</td>
<td>927-255-3748</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:arlington.harrer@wpafb.af.mil">arlington.harrer@wpafb.af.mil</a></td>
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### Procurement Authority Point of Contact

<table>
<thead>
<tr>
<th>Name:</th>
<th>Greg Hall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization:</td>
<td>677 AESG/TO</td>
</tr>
<tr>
<td>Phone:</td>
<td>937-255-2571</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:greg.hall@wpafb.af.mil">greg.hall@wpafb.af.mil</a></td>
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</table>

### Period of Performance

- Development, Production, CLS – 8/08-08/13 with options

### Funding

- Estimate $412M over life of contract

### Data Status

- Government use and releasability rights on program data
- No proprietary data
- Anticipate data purchase/licensing/classification requirements

### Milestones

- Industry Day – Dec 07, Draft RFP – 3/08, RFP release - 6/08, Award - 8/08 (dates are approximations)
### Summary of Program Requirements

- A high fidelity, simulated combat environment integrated with simulations of all avionics and weapons systems, programmed or interactive threat aircraft, gunnery, air-to-air and surface-to-air missiles, electronic countermeasures, communications networks, command and control structures, atmospherics, and DMO Network capability. Types of devices – cockpits, instructor/operator station, brief/debrief.
- Anticipated Installations - Langley AFB (2 ship + 2 ship opt), Elmendorf AFB (4 ship), RAF Lakenheath (2 ship + 2 ship opt), Kadena AB (4 ship)

### Training Analysis/Requirements Results

- Meet ACC Master Training Task List and Roadmap
- Immersive Training Environment
- Full Spectrum Training Capability

### New Technologies/Capabilities Anticipated

- Visual system capable of displaying eye limiting resolution
- Motion cueing for buffet & G’s
- Intelligent Virtual/Constructive Entities (IV/CE)
- F-15C Roadmap requirements

### Critical Performance Issues/Risks

- Immersive Training Environment
  - Visual & NVIS Cues
  - Physical Cues (AOA Buffet, Cockpit, HOTAS etc.)
  - Aural Cues
- DMO Interoperability and Standard Compliance
- Aircraft and DMO Standards Concurrency
- Participation in DMO Standards Development
- Thorough Brief/Debrief Capability
- Risks: IV/CE, Visuals

### Additional Information

- Developing F-15C MTC documentation
- Emphasize Hardware-Software Integration, Engineering Verification Testing, On-site Validation Testing
- Traditional acquisition procurement approach may be changed if public law restricting simulator service contracts is altered
- Desire innovative solutions to lower costs, shorten development cycle, minimize Gov’t staffing
F-16 Mission Training System (MTC)
Follow-On

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# F-16 MTC Follow-On

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## Description

The F-16 MTC Follow-On Program will acquire high-fidelity training systems that facilitate F-16 Block 40/42 and 50/52 personnel training at all levels ranging from individual events in a single ship mode of operation to large-scale, theater specific, composite force combat mission training and rehearsal in a distributed training environment. The Program will further acquire Contractor Logistics Support (CLS) to maintain the MTCs in a fully operational status and concurrent configuration.

## Acquisition Strategy

- Competitive, Full & Open
- Single Award
- US companies only
- FAR Part 15, IDIQ

## Funding

- Estimated program value - $600M (2008-2018)

## Program Office Point of Contact

Name: Capt Belka  
Organization: 677 AESG/TO  
Phone: 937-255-3693  
Email: jaquenette.belka@wpafb.af.mil

## Procurement Authority Point of Contact

Name: TBD  
Organization: 677 AESG/TO  
Phone: 937-255-3697  
Email: TBD

## Period of Performance

- Total effort potential – 10 years

## Data Status

- TBD

## Milestones

- Industry day – Late May/Early June
- Contract award – Mid CY08
# F-16 MTC Follow-On

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## Summary of Program Requirements

<table>
<thead>
<tr>
<th>Training Analysis/Requirements Results</th>
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<tbody>
<tr>
<td>- Fully immersive, concurrent pilot training environment</td>
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<tr>
<td>- Training requirements determined by TCRA based on:</td>
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<tr>
<td>- Planned updates defined by F-16 MTC roadmap</td>
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<tr>
<td>- Training tasks defined by ACC-maintained and evolved Training Task List (TTL)</td>
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<tr>
<td>- TCRA updates upon contract changes</td>
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<table>
<thead>
<tr>
<th>Critical Performance Issues/Risks</th>
</tr>
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<tbody>
<tr>
<td>- High fidelity, real-time F-16 Blk 40/50 combat simulation</td>
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<tr>
<td>- Cockpit controls, displays, avionics/sensors, weapons/stores, NVG</td>
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<tr>
<td>- Realistic and robust battlespace environment – synthetic forces, natural and cultural geospatial features, with correlated multi-spectral perceptions</td>
</tr>
<tr>
<td>- High system availability through sound reliability and maintainability design – high system mean time between essential function failure (MTBEFF)</td>
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<tr>
<td>- CAF DMO Interoperability</td>
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<tr>
<th>New Technologies/Capabilities Anticipated</th>
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<tbody>
<tr>
<td>- 360° FOV OTW visual with all-aspect, 20/20 acuity</td>
</tr>
<tr>
<td>- Warfighter Readiness Assessment and Performance Measurement Tracking System (WRAPMTS) interfaces</td>
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<tr>
<td>- Threat simulation source data provided from NASIC Threat Modeling and Analysis Program (TMAP) models (as available)</td>
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<th>Additional Information</th>
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<tr>
<td>Government desires innovative solutions to achieve efficiencies in:</td>
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<tr>
<td>- Development activities, providing exceptional insight into program status and risk management</td>
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<tr>
<td>- CLS activities including contractor-managed spares repair and replenishment</td>
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<tr>
<td>- Configuration management and concurrency</td>
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<tr>
<td>- Technical data package development and maintenance for recompetition support</td>
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<tr>
<td>- RFP will include Draft SOW, SCRD (Draft RFP will be released subsequent to industry day discussions)</td>
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