

Joint Terminal Control Training & Rehearsal System (JTC TRS)



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U.S. AIR FORCE

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 reqrd.

Program Office Point of Contact

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Procurement Authority Point of Contact

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Period of Performance

- FY08 – FY12 with potential to FY16

Data Status

- Mixture of government owned and proprietary contractor data

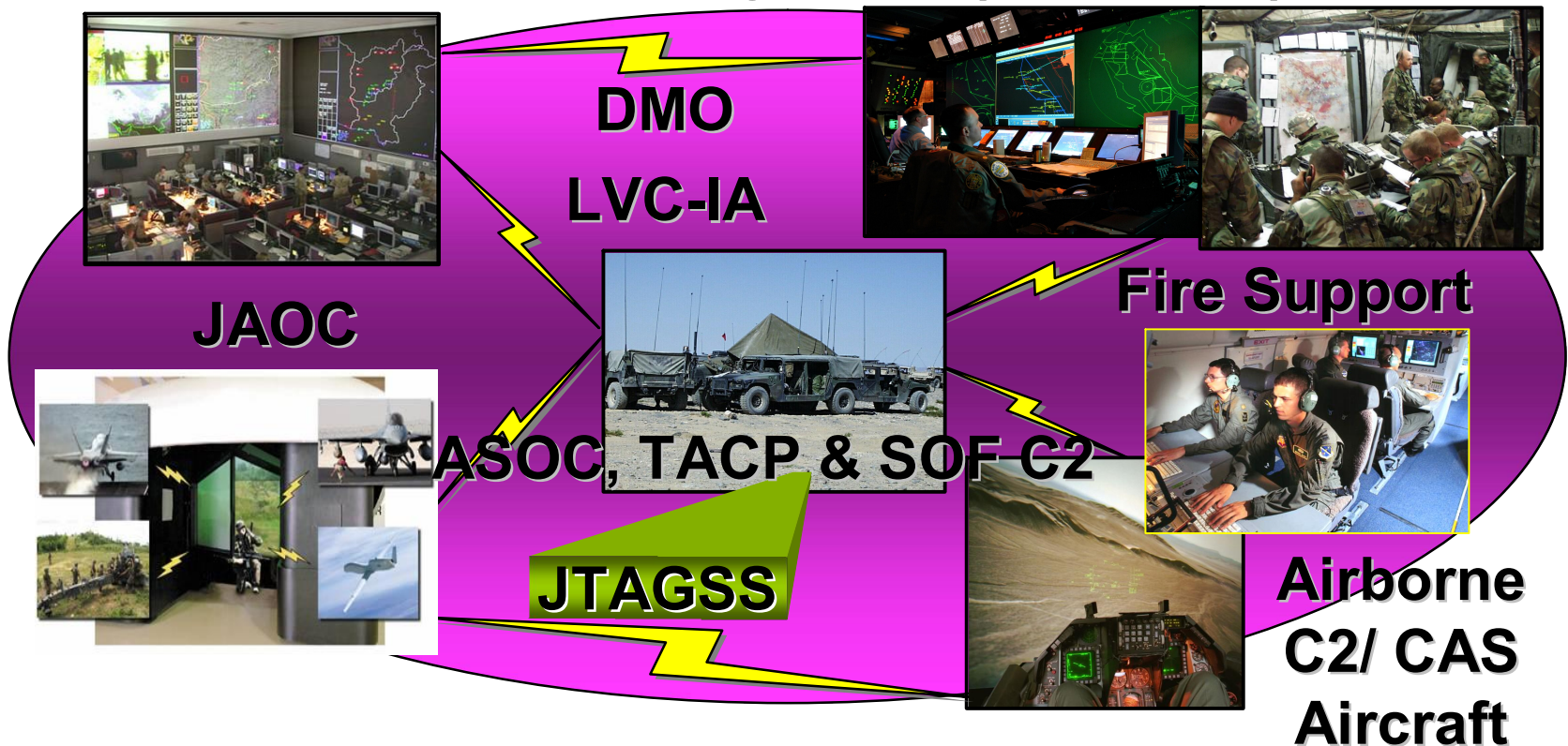
Milestones

Industry day – 24 May 2007
Contract Award – FY09/Q2

Draft RFP – Late Summer 2007
First delivery – FY09/Q1

RFP – Fall 2007

Joint Theater Air Ground Simulation System (JTAGSS)



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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**

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Period of Performance

- **TBD. Will probably not start any earlier than FY10.**

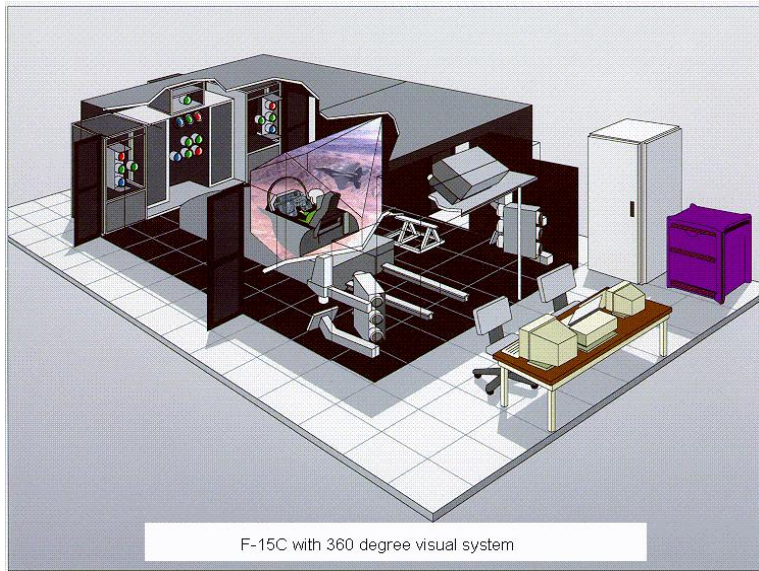
Data Status

- **TBD**

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**

F-15C Mission Training Center (MTC)



F-15C with 360 degree visual system



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F-15C Mission Training Center (MTC)

[This page For Any Procurement Development]

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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

Funding

- Estimate \$412M over life of contract

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Period of Performance

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

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)



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F-15C Mission Training Center (MTC)

[This page For New System Development]

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Summary of Program Requirements <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• Meet ACC Master Training Task List and Roadmap• Immersive Training Environment• Full Spectrum Training Capability
New Technologies/Capabilities Anticipated <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• Immersive Training Environment<ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• 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

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Period of Performance

- Total effort potential – 10 years

Data Status

- TBD

Milestones

- Industry day – Late May/Early June
- Contract award – Mid CY08



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F-16 MTC Follow-On



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Summary of Program Requirements <ul style="list-style-type: none">• Networked 4-ship systems at 8 sites – subject to change as acquisition strategy evolves• Comprehensive concurrency/concurrency mgmt, including planned aircraft updates, threats, geospatial features• Scenario generation, instructor/operator, brief/debrief, virtual threat stations• Interoperable within CAF DMO via DMON• Contractor Logistics Support (CLS) including<ul style="list-style-type: none">• Site operations and maintenance• Contractor-facility TSSC	Training Analysis/Requirements Results <ul style="list-style-type: none">• Fully immersive, concurrent pilot training environment• Training requirements determined by TCRA based on:<ul style="list-style-type: none">• Planned updates defined by F-16 MTC roadmap• Training tasks defined by ACC-maintained and evolved Training Task List (TTL)• TCRA updates upon contract changes
New Technologies/Capabilities Anticipated <ul style="list-style-type: none">• 360° FOV OTW visual with all-aspect, 20/20 acuity• Warfighter Readiness Assessment and Performance Measurement Tracking System (WRAPMTS) interfaces• Threat simulation source data provided from NASIC Threat Modeling and Analysis Program (TMAP) models (as available)	Critical Performance Issues/Risks <ul style="list-style-type: none">• High fidelity, real-time F-16 Blk 40/50 combat simulation<ul style="list-style-type: none">• Cockpit controls, displays, avionics/sensors, weapons/stores, NVG• Realistic and robust battlespace environment – synthetic forces, natural and cultural geospatial features, with correlated multi-spectral perceptions• High system availability through sound reliability and maintainability design – high system mean time between essential function failure (MTBEFF)• CAF DMO Interoperability
Additional Information <p>Government desires innovative solutions to achieve efficiencies in :</p> <ul style="list-style-type: none">• Development activities, providing exceptional insight into program status and risk management• CLS activities including contractor-managed spares repair and replenishment• Configuration management and concurrency• Technical data package development and maintenance for recompetition support• RFP will include Draft SOW, SCRD (Draft RFP will be released subsequent to industry day discussions)	