

**LETTER OF REQUEST FOR PRICE AND AVAILABILITY  
FOR IN COUNTRY REPROGRAMMING CAPABILITY FOR F-16 OFP  
FOR TURKISH AIR FORCE**

**General**

Turkey is a member of NATO and a close ally of the USA and a strategic partner. Turkey has been greatly contributing to the world peace and combatting terrorism globally with its geographical position, the operations it has been carrying out, the abilities it has both nationally and as an ally of the USA. Having the requested capabilities will enhance Turkey's ability to continue contributing to these purposes.

**Type of Request**

Letter of Request (LOR) for Price and Availability (P&A)

**Items Requested**

1. Upgrade of current MMC hardware to 7000Axx for two hundred (200 ea) F-16 Blok-40/50/50+
2. Upgrade of PO-III/IV F-16 OFP software to M6.x baseline
3. In Country Reprogramming (ICR) capability for above mentioned M6.x software
4. Upgrade of current Flight Mission Planning System (FMPS), if required after this effort
5. Familiarization, technical documentation update, spares, support equipment for the above mentioned upgrades

**Capabilities Required**

The capabilities are defined below will be implemented in two phase. The price and availability data for each phase will be provided separately.

**1. Phase 1 M6.x Software**

- a. M6.x software capabilities (including Small Diameter Bomb (SDB) with Universal Armament Interface (UAI), Auto GCAS)
- b. AESA Radar capability as an option

**2. Phase 2 ICR Capabilities**

TurAF would like to have avionics integration and certification capabilities for F-16 aircraft. During any integration process, following activities should be done;

- a. The avionics system design, modification, analysis and test (System Integration Laboratory (SIL), ground and flight tests etc.),
- b. Aircraft's Group-A design, modification and test,
- c. Operational Flight Programs (OFP)/Software Development,
- d. Electromagnetic Interference/Compatibility (EMI/EMC) Test,
- e. Electrical load analysis for new systems,
- f. Store certification analysis and tests.

To accomplish above activities, TurAF requests following capabilities;

- a. Software/OFP (ver. M6.x) development capability which includes:
  - (1) Modular Mission Computer (MMC) software/OFP modification capability,
  - (2) Programmable Display Generators (eCPDG and MPDG) software/OFP modification capability,
  - (3) Common Data Entry Electronic Unit (CDEEU) software/OFP modification capability,

- (4) Interface Blanker Units (IBU,AIBU and EIBU) software/OFP modification capability,
- (5) Data Transfer Equipments (DTE and ADTE) software/OFP modification capability (including Configuration Data Set for UAI weapons).
- b. Flight Control Computer for each F-16 Block 30/40/50/50+ software/OFP modification capability,
- c. Electrical Load Analysis capability,
- d. Antenna Analysis capability for each F-16 Block 30/40/50/50+,
- e. Aircraft level EMI/EMC test capability for each F-16 Block 30/40/50/50+ (anechoic chamber not needed),
- f. Electrical Grup-A Design, Modification and Test Capability for each F-16 Block 30/40/50/50+,
- g. Integrated Test Station (ITS) and ITS hardware and software modification capability,
- h. Software Test Station hardware and software modification capability,
- i. OFP formatting capability for AIS test station,
- j. Capability for preparing draft Technical Orders,
- k. Capability for environmental conditions qualification of aircraft avionic modifications on F-16 aircraft, including;
- (1) Information on environmental conditions requirements (temperature, vibration, acceleration, etc.) for avionics installation regions (avionic compartments, cockpit) for Block 30/40/50/50+,
- (2) Information on qualification procedures (analysis, test, etc) performed in USAF F-16 upgrade programs.
- l. Capability for external store certification, including;
- (1) Information on structural, aerodynamic and aeroelastic differences between Blocks (30/40/50/50+) having effect on store carrying characteristics,
- (2) Guidelines of certification procedures performed in USAF F-16 store integration projects.

For each capability listed above, TurAF requests following items be provided;

- a. Engineering Environment (documentation, software, source codes, hardware, etc.),
- b. In-Class and On-the-Job familiarization,
- c. Follow-on support for all deliveries.

**3. Current Capabilities:**

All current capabilities will be retained unless modified or replaced by this effort.

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Colonel

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