

**INVITATION FOR BID – “Aircraft Microwave Mobile Ground Receive (RX) Systems”  
Specifications**

Commonwealth of Pennsylvania, Office of Attorney General  
Harrisburg, Pennsylvania

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**I. GENERAL INFORMATION**

**1. Purpose**

This Invitation for Bid (“IFB”) is designed to provide prospective bidders with information on requirements associated with the procurement of an ‘Aircraft Microwave Mobile Ground Receive (RX) System.’

**2. Authority**

The Office of Attorney General (“OAG” or “ISSUING OFFICE”) is as an independent, executive, administrative department of the Commonwealth. 71 P.S. 732-201. Thus, under the Commonwealth Procurement Code (“CODE”), the OAG is authorized to act as its own purchasing agency when procuring services, renting machinery and equipment, and licensing specialized computer software, 62 Pa.C.S. § 301(c)(5), and, when the Department of General Services (“DGS”) delegates specific procurement authority to the OAG.

**3. Procurement Overview**

The OAG has identified a need for a ‘Aircraft Microwave Mobile Ground Receive (RX) System’ which is capable of integration with its existing<sup>1</sup> Aircraft Microwave Video Downlink Transmission equipment installed on the OAG’s aircraft (a Cessna Grand Caravan EX). Thus, through this procurement, the OAG intends to award a contract to a responsible and responsive bidder and invites those interested and able to satisfy the Specifications (more fully described in [Section II](#)) to submit a response to this IFB.

**4. Issuing Officer**

The sole point of contact concerning this IFB will be Alecia Peddigree (“ISSUING OFFICER”) who may be contacted via email at [apeddigree@attorneygeneral.gov](mailto:apeddigree@attorneygeneral.gov). Any violation of this condition may be cause for rejection of the offending bid, or rescission of any contract awarded hereunder.

**5. Bid Submission**

The sole method of submitting bids under this IFB will be electronically through the PA Supplier Portal ([www.pasupplierportal.state.pa.us](http://www.pasupplierportal.state.pa.us)). NOTE: An electronic bid reflecting “Held” or “Saved” status is not a complete submitted electronic bid, and thus would not be considered for a bid award.

Bids submitted by any other means (including, but not limited to, faxed, mailed, or emailed bids) will be rejected. No responsibility will be attached to any employee of the OAG for the premature opening of, or the failure to open, a bid not properly addressed and identified, or for any reason whatsoever.

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<sup>1</sup> The OAG’s existing downlink equipment is a Troll SkyLink Mini S Compact High-Gain Antenna System which is configured for Upper C band 6430 – 6521 GHz. Current system data sheet: <https://trollsystems.com/wp-content/uploads/2022/05/MiniS-Data-Sheet.pdf>

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**6. Bid Deadline**

The deadline for submission of a qualifying bid is Friday, April 12<sup>th</sup>, 2024, at 3:00pm EST. Bids submitted after this closing date and time will not be considered for award.

**7. Bid Contents**

As further detailed in the specifications below, all of the following documentation must be completed, provided, and submitted with any bid submission for a contractor to qualify for any bid award:

- a. **PowerPoint Presentation** (Detailed in Section III.2, below)
- b. **Documentation of Bidder’s active registration with US DOJ’s System for Award Management (SAM)<sup>2</sup>** (Detailed in Section III.7, below)
- c. **Lobbying Certification Form**
- d. **Domestic Workforce Utilization Certification Form**
- e. **GSPUR-89 Reciprocal Limitations Form**

**Failure to submit any of the above documentation will result in the bid being rejected. The submission of any documentation other than what is listed above may result in the bid being rejected.**

**8. Bid Results**

Bidders can obtain bid results by accessing <https://www.emarketplace.state.pa.us/>.

**9. CONTRACT AWARD AND TERM:**

Contracts will be evaluated based on a lump sum award and, if a determination to proceed is made, will be awarded to the lowest responsible and responsive bidder. Any contract award will thereafter commence upon execution of a purchase order by the OAG given to the winning bidder.

**II. SPECIFICATIONS**

**1. Procurement Background**

The OAG has a dedicated Aviation Unit which leverages unique capabilities to provide professional aerial law enforcement and specialized missions of tactical support, surveillance, observation, search, and transportation for our agents and all other local, state, and federal agencies. Common Mission sets and Operations undertaken by the Aviation Unit include: Surveillance/evidence collection; Buy-follow; Buy-bust; Controlled Delivery; Search Warrants; Vehicle Tracking; Eradication/Indoor Grows; Training; Transportation; Civil Unrest; Natural Disasters; *and*, Homeland Security. These

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<sup>2</sup> Questions concerning Registration with SAM registration should be directed to the Federal Services Desk (FSD) (<https://sam.gov/content/about/contact>).

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missions employ the OAG’s fixed wing Cessna Grand Caravan EX and various tactical equipment presently installed therein—including certain ‘Aircraft Microwave Video Downlink’ transmission equipment.<sup>3</sup>

The OAG has identified a need for the procurement of an ‘Aircraft Microwave Mobile Ground Receive (RX) System’ (“SYSTEM”) which integrates with its existing Aircraft Microwave Video Downlink System equipment installed on its Cessna Grand Caravan EX. The SYSTEM’s primary purpose will be to enhance existing capabilities through the provision of the real-time broadcast of live videos from the aircraft to the portable receiver site and thereby enhance real time situational awareness for all levels of ground personnel involved in the operation. Access to the live video streams provides ground personnel with valuable intelligence—enhancing their ability to make tactical decisions which can improve safety of the officers and general public, prevent property damage, and improve the operational efficiency for missions involving the OAG’s Aircraft.

**2. Statement of Work/Deliverables**

**A. Fully-enclosed, Mobile Ground Receive (RX) Antenna System [Quantity: 1]**

This deliverable shall include the following equipment meeting the following technical specifications:

- Mobile, small, lightweight panel antenna system
- 6-Channel UHF Receivers
  - Frequency: 6.4 GHz to 6.5 GHz
  - Gain: 15 dBi
- Six (6) 6.5 GHz Block Down Converters
  - Frequency: 6415 MHz – 6535 MHz
  - LQ: 6175 MHz, 33dB Gain
  - Output: 395-515 MHz
- Six (6) Filters:
  - 6415-6545 MHz
- System Processor
- Power over Ethernet (PoE)
- 120-240 VAC Power
- Ruggedized Connectors
- Flight Case Enclosure

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**B. Peripheral Equipment and Cabling**

These deliverables shall include the following equipment and meet the following technical specifications:

- Custom, Ruggedized Mobile Gateway for Mission Command with Antenna System Control System [Quantity: 1]
  - Must permit Local Viewing and Antenna System Control
  - Must include Control Driver for Antenna
- Heavy Duty Tripod, Adapter head, mounting hardware, with travel case [Quantity: 1]
- POE Ethernet Spool [Length: 200'; Type: CAT 5e; Outdoor, Ruggedized Shielded twisted Pair with Ruggedized connectors and four-port switch] with Flight Case Enclosure [Quantity: 1]
- IP Decoder (Stand-Alone) with B-Crypt decryption (direct connection to receiver), Echo Transport Stream (B-Crypt, clear, unicast or multicast) and Control Driver (Remote channel control from ESP interface) [Quantity: 1]
  - 1080P Output Resolution
  - Output type: HDMI
  - Input type: Ethernet
  - Control: USB Keyboard

**C. Downlink System Software-as-a-Service License/Subscription [3-yr Initial Term]**

This deliverable shall include the following software meeting the following technical specifications:

- Defense Grade Online Portal
  - Streaming of downlink video;
  - Supports 250 users.
  - HTTPS security on all streams
  - Supports iOS, Android, Windows, Linux
  - Supports multiple resolutions/quality.
  - Supports G3, LTE, Wi-Fi connections.
  - Administrator management of access privileges [*i.e.* User; Time of Day; Events; Groups]
  - Up 1TB of user outbound data per month (20 continuous users, @ 1Mbps, 4 hours a day, 30 days a month)
  - Allows 16 Maximum Video Inputs and 4 Maximum Simultaneous Outbound Streams.
  - Acceptance of standard Commonwealth IT Terms and Conditions.

**D. Ancillary Services and Warranties**

This deliverable shall include ancillary services and warranties as follows:

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- Implementation and Project Services of Mobile Ground Receive (RX) System to include complete system drawing package, the setup of all included equipment, final system commissioning;
- Ongoing Support Services: 3 years of extended 24/7 service, live technical support & training for all deliverables of this IFB; unlimited service calls with a technician on-site within 3 business days of repair request if requested; technical and operational consultation services.
- Training Services: On-site system and operational training for agency personnel; Comprehensive and ongoing training to operate mission suite solution with maximum ease and efficiency; all training courses to be conducted at OAG Aviation Hangar, located at 240 Airport Road New Cumberland, PA 17070, with OAG equipment and offer a hands-on learning experience that includes an in-depth review of all equipment, system functionality, user interface, and routine maintenance procedures.
- Equipment Warranties: Valid transfers of OEM factory warranties from new equipment; All parts and labor to repair or replace defective components are covered by factory warranty plus expedited factory service from OEMs.
- Software Installation and Ongoing Support: Online portal one-time installation; installation and setup of Online defense grade portal service

### III. Other Requirements

#### 1. Vendor Registration

The bidder must be registered as a Vendor within the Commonwealth’s Supplier Relationship Manager (“SRM”) system.<sup>4</sup>

#### 2. Powerpoint Presentation

The bidder must provide a PowerPoint presentation to the Commonwealth of the Aircraft Microwave Video Downlink System in the bid response packet, explaining the following topics: (a) Presentation of the Bidder’s website; (b) Introduction to the program; (c) Demonstration of video capability resolution; (d) Demonstration of the recorded live video downlink usage; (e) Instructions on securely accessing live video.

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<sup>4</sup> Questions concerning SRM registration should be directed to the Commonwealth of Pennsylvania, Department of General Services by toll-free telephone at (877) 435-7363 or by e-mail to [RA\\_PSC\\_Supplier\\_Requests@pa.gov](mailto:RA_PSC_Supplier_Requests@pa.gov).

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**3. References/Qualifying Experience**

The bidder must list the individuals or organizations for whom they have provided Aircraft Microwave Video Downlink System services for a minimum of five years within the past ten years in the bid response packet.

**4. U.S. Location Required**

Bidder must have a physical location within the United States of America, which must be clearly stated in the bid response.

**5. Delivery**

Delivery is to be no later than May 14, 2024.

Delivery of any equipment will be to the following location:

Office of Attorney General – Aviation Section  
Attn: Ernest Carlson  
240 Airport Road  
New Cumberland, PA 17070

Delivery of any software must adhere to the Commonwealth’s ‘Contract Terms and Conditions for IT Supplies and Related Services, incorporated herein by reference.’ The Contractor is responsible for delivery or drop-shipment of Software to any location requested by the OAG and/or its contractors acting on behalf of the OAG. If the software is defective, or if the incorrect software is delivered, the Contractor must accept returns, without charge to the OAG.

**6. Tax.**

The OAG is exempt from all excise and sales taxes. Thus, no tax shall be included in the bid costs.

**7. SYSTEM FOR AWARD MANAGEMENT (SAM) REQUIREMENTS**

Prospective bidders must be Registered in the System for Award Management (SAM) at the time their bid is submitted, *see* FAR 52.204-7(a) and shall continue to be so registered throughout the Contract Term, *see* FAR 52.204-7(b)(1).