

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE J	PAGE OF PAGES 1 4
2. AMENDMENT/MODIFICATION NO. 0001	3. EFFECTIVE DATE 15-Apr-2011	4. REQUISITION/PURCHASE REQ. NO. WF7LKT10380400		5. PROJECT NO.(If applicable)
6. ISSUED BY REGIONAL CONTRACTING OFFICE (RCO) BOGOTA CARRERA 45 NO. 24B-27 USMILGP CONTRACTING BOGOTA	CODE W913FT	7. ADMINISTERED BY (If other than item 6) See Item 6		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)		X	9A. AMENDMENT OF SOLICITATION NO. W913FT-11-R-0021	
		X	9B. DATED (SEE ITEM 11) 04-Apr-2011	
			10A. MOD. OF CONTRACT/ORDER NO.	
			10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
12. ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)				
a. This amendment is issued to respond to questions from prospective offerors and revise specifications.				
b. Proposal submission due date remains unchanged.				
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
		TEL:	EMAIL:	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)		15-Apr-2011

SECTION SF 30 BLOCK 14 CONTINUATION PAGE**SUMMARY OF CHANGES****SECTION SF 30 - BLOCK 14 CONTINUATION PAGE****The following have been added by full text:**

W913FT-11-R-0021
Questions and Answers
Video Indexing and Recording System

- 1) Question: What is the demarcation with respect to the VIRS system, i.e., will the feeds already be encoded in an MPEG2/MPEG4 TS with embedded KLV?

Response: VIRS can take in either analog video and ScanEagle ESD metadata (direct from a ScanEagle GCS), or MPEG-2/MPEG-4 over IP with embedded KLV. If the input is analog, it encodes the video into MPEG4 and metadata into KLV producing an MPEG-2 TS with embedded KLV

- 2) Question: What type of encoders will be used?

Response: HaiVision Barracuda (chassis with 6 blades – 1 per video input stream)

- 3) Question: Does the entire solution need to be web-based, which will necessitate on the fly transcoding and a delay in the video feeds getting to the system users? Or is it acceptable to have a fat client tool for the initial collection, tagging and archiving and a web-based tool for search and playback of archived video feeds?

Response: It is highly preferable for the entire solution to not be web-based, as web-based solutions are not suitable for real-time exploitation due to their inherent high latency and the reduced quality of the video imagery. For example, in order to maximize operational utility, the system should support the ability for system users to view the live video with a latency of less than 500ms seconds from the GCS, support the ability to re-stream the video at different bit rates, and support the ability to play back (review) archived video at 16 times or greater than normal play speed. Some of these important functions are problematic with a web based solution.

In order to meet these types of requirements, recommend a thick client with a very low latency video display for real-time tagging and exploitation of the video.

REVISED SPECIFICATIONS**SPECIFICATIONS SHEET FOR
VIDEO INDEXING AND RECORDING SYSTEM
REVISED 13 APRIL 2011**

The contractor shall provide a 6-Feed Video Indexing and Recording System (VIRS) with four each Video Viewer (VV) software programs. This system will be installed and connected to the existing ScanEagle Unmanned Aircraft System (UAS) Ground Control Station (GCS) at La Macarena, Meta, Colombia. Connectivity and installation will be accomplished separately and is not included as part of this requirement.

The VIRS and VV software shall meet the following technical criteria:

- 6-feed Video Indexing and Recording System (VIRS)
- 4 each Video Viewer (VV) software programs.
- The VIRS shall accept video feeds with KLV Key-Length-Value metadata, store that information, and display that video with KLV for the User.
- The VIRS shall be capable of multicasting the video feeds to other users for them to be able to view the video with KLV information on their VV.
- The VIRS shall support 24TB (Terabytes) of video and KLV storage.
- The VIRS shall be capable of storing the video and KLV at two compression levels: one shall be the native or input compression and one shall be a System Administrator selectable rate down to 128Kps (Kilobytes Per Second)
- Must be web based and support standard based browsers (ex. Internet Explorer or Mozilla FireFox).
- Must have the ability to set up and operate the VIRS system remotely on the network.
- Must provide access controls, providing and limiting access to the data within the system.
- Must fully support federation with other similar systems. The ability to configure the system to limit access to sites within a federated network is required
- Must be able to playback content retrieved from the system with no need for additional software to be installed on the client machine.
- Must provide key search and discovery tools for the operator. These shall include:
 - Geospatial
 - Text Based
 - Keywords
 - Operator
 - Platform
 - Flight Chat
 - Time & Date

- The user interface must provide operators with map based searching. Features shall include:
 - a) Draw an area of interest for a search.
 - b) Draw a radius for a search

- Must support archiving and playing back the following video and metadata standards:
 - a. MPEG-2 – (Moving Pictures Expert Group-2), Main Profile (ISO/IEC 13818-2)
 - b. MPEG-2 Transport Stream (ISO/IEC 138180-1)
 - c. H.264/ AVC Video, Base and Main Profile (ISO/IEC 14996-10)
 - d. KLV Universal Data Set (MISB EG 0104.6)
 - e. KLV Local Data Set (MISB Standard 0601.3)
 - f. ESD Metadata

- Must support the ability to transcode video on the fly based on an operator's request. Profiles must include the following codec's:
 - a) MPEG-2
 - b) H.264
 - c) MPEG-4
 - d) MPEG-1

- Must support both Multicast and Unicast delivery of video.

- Must support the ability to generate NITF (National Imagery Transmission Format) 2.1 - compliant images from a source as an operator is viewing it.

- Must support the ability for operator annotations to be added to a video asset.

- Must record video and metadata

- Must support the ability to ingest chat within an IRC (Internet Relay Chat) room associated with the flight.

- Must support the ability to view the video footprint on a map while watching live and recorded feeds.

- Must be able to estimate the geo-location of the center target seen in the imagery.

- Must be able to add mark up to snapshots.

(End of Summary of Changes)