



1.0 Introduction

Founded in 2001 ITI Solutions Inc. (ITI) offers substantial engineering, sensors integration, acquisition logistics management integration, technical expertise, and management capabilities to support Department of State, Department of Homeland Security and AFNORTH missions. ITI is an SBA 8(a) and CVE certified Service-Disabled Veteran and Minority-Owned Small Business with corporate offices located in San Antonio, TX. ITI is a provider of high-quality

Key Highlights
<ul style="list-style-type: none"> • Highly relevant experience providing Acquisition logistics, integration, and management Services. • SBA 8(a) and Service-Disabled Veteran-Owned Small Disadvantaged Business • Provider of logistical support and sensor operators training in support of C-26 operations in LATAM.

acquisition logistics, integration and management services to Government customers worldwide.

ITI Solutions Information:

Area	Data
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Small Business Status:	8 (a), SDVOSB
Solicitation Role:	Prime Contractor
NAICS Codes:	541330 , 541930, 541512, 561990, 611420, 611512, 611519, 611710

2.0 Corporate Experience:

2.1 Overview

Since 2001, ITI has been involved in the C-26 Airborne Surveillance program in Colombia sponsored by the International Narcotics and Law Enforcement (INL) Bureau of the US State Department, in support of the Colombian Anti-Narcotics Police and in Mexico in support of NORTHCOM under the Counter Narcoterrorism Technology Program Office (CNTPO) program in support of the Mexican Air Force, at the Santa Lucia Air Base, Mexico. ITI personnel have been involved in the development of all operational aspects of this program including researching the marketplace for Commercial off the Shelf (COTS) intelligence collection payloads, equipment of several different airborne surveillance platforms, performing targeted hearability surveys in foreign countries, developing Concept of Operations, system integration, testing and acceptance; developing payload information databases, and providing around the clock maintenance to different US government sponsored programs payloads at overseas locations.



Due to our extensive corporate experience in the Intelligence Operations Field, ITI has been selected by DOS and DOD to research and recommend intelligence collection system (payloads) to be installed on Host Nation Aircraft. Payload research highlights include;

- Engineering Analysis
- Installation Data Package Development (IDP)
- Design, Testing and Acceptance
- Assessed COTS Surveillance systems for integration into US State Department C-26 platform and Schweitzer Surveillance platform for the US Department of Defense
- Assessed systems including FLIR, Cellular Intercept, Intercept and Direction Finding, Data/Mission Management systems, Maritime Radar, and Communications Systems.
- Provided Payload assessment report and final selection recommendations to US State Department for C-26 Surveillance platforms

2.1.1 Maintenance and Operational Support

In-Country, around the clock Payload maintenance and operational support services have been integrated within ITI's Engineering and IT (Information Technology) Services. These services include routine in-country maintenance, as well as Repair and Return support, including ITAR processing for all systems, being shipped to and from the US. Some of the systems maintained by ITI, Include;

- Imagery Sensors (Forward Looking Infrared (FLIR, Wescam), Down Looking Cameras
- Signals Collection and Direction Finding (DF) – L3 (Dragonfly), DRT Systems, Harris, etc.
- Communications Equipment – (Line of Sight, Beyond Line of Sight)
- Data Storage and Retrieval – AETIOS DMS

2.1.2 Risk Mitigation

Our process focuses on continuous risk awareness with emphasis on root cause identification and mitigation tracking to reduce cost while maximizing efficiency. An example of this approach is the use of a **Software Integration Lab (SIL)** to reduce the risks and costs associated with the integration of new COTS ISR technology into existing GOTS equipment through mitigation, monitoring, controlling, and reporting of every task.

2.1.3 Training

ITI has also been involved in training and development of intelligence sensor operators and analysts from four different countries as part of INL sponsored programs as well as the maintenance of related equipment. As part of these programs we offered, introductory and



advanced training programs to include the development of English and Spanish courses to be taught in US and overseas locations. Some of the training areas include; Operations and Communications Security, Radio Wave Propagation, cellular communications theory, and SIGINT and IMINT Analysis among others. Operational training subjects include Airborne Mission Planning, Intelligence Analysis, Collection Management Fundamentals, and many other Intelligence subject specific areas. Training programs are divided into theory based and operational subject areas. Theory based introductory areas include subjects such as Operations and communications security, radio wave propagation, and cellular communications theory, among other C4ISR areas. Operational training subjects include airborne mission planning, collection management fundamentals, and many other subject specific areas. Some of the highlights of our training services include:

- Airborne Surveillance:
 - Operations support/training development and delivery for US State and DOD-sponsored programs
- Signals and Imagery Analysis:
 - Training development and delivery for DOS and DOD for four Different Latin American Countries

2.1.4 Research & Development

One of ITI's biggest accomplishments has been the development of the AETIOS Data Management System. The DM system was developed to support CN/CT airborne operations in Colombia by the Colombian National Police. The DMS is a fully scalable server system installed on the airborne platform which collects incompatible data from several sources such as FLIR video, digital pictures, audio, DF information and SRI and categorizes and stores this data in a common format while appending navigation information to the data. The end product of this process can be defined as "Fully Geo-Referenced Mission" data which is especially helpful for the post-mission process. Once the data is stored in the DMS, the mission crew can access it from their workstation for review. This addition to the aircraft provides crew members with the required information to make command and Situational Awareness decisions while the mission is underway. Although AETIOS was first developed as an airborne operations server, its design has been improved to accommodate ground analyst's requirements. Several tools have been added to the core components of the DMS to improve the efficiency of analysts. One of these tools provides the capability for "Geospatial Mission Search" where analysis personnel can search the entire database for information relevant to a specific region. This is an interactive tool where the analyst selects a region on a digital map, and the DMS system will return all available data for that region.



2.1.5 Programs

Programs Background			
Country	Project	Synopsis	OEM
Colombia	Intelligence Surveillance and Reconnaissance Platforms (ISRAP). See Fig 1. Colombia National Police C-26 (ISRAP)	Sensor Operator program that provided students the skills necessary to collect, process, analyze and disseminate desired target communications. It consisted of two phases; a US component focusing on theory-based instruction, and a second component which will include operational hands-on instruction, conducted in Colombia.	FLIR, ASIT (L3), ADS Systems, DMS (ITI)
Trinidad	Dragonfly System upgrades, Sensor System and Analyst training	Sensor Operator program that provided students the skills necessary to collect, process, analyze and disseminate desired target communications. It consisted of two phases; a US component focusing on theory-based instruction, and a second component which will include operational hands-on instruction, to be conducted in Trinidad.	FLIR (Star Safire II), ADAM, Telephonic APS 143 Radar
Mexico (FAM)		Provide familiarization training in the use of the sensors.	FLIR (Star Safire II), ADAM, Telephonic APS 143 Radar,
Mexico (FAM)	Counter Narcoterrorism Technology Program Office (CNTPO) TORP 151: Mexican C-26 Engineering Analysis and Parts Buy	Conduct survey, for Sensors, upgrade recommendations Perform an engineering assessment and evaluate the material condition of the airframes, avionics systems, power plants, and mission systems (EO/IR and Radar) of four (4) Mexican Government-owned C-26	FLIR (Star Safire II), ADAM, Telephonic APS 143-B Radar,



		Fairchild Metro liner aircraft located in Santa Lucia, Mexico. The Contractor SHALL evaluate the entire aircraft, with special attention to avionics and aircraft mission systems obsolescence issues.	
Mexico (FAM)	Counter Narcoterrorism Technology Program Office (CNTPO) (Fig. 2) TORP 184 Mexican C-26 Repair, Upgrade, Procurement, and Assessment	Propose, procure, and test a real-time surveillance system that provides integrated data collection from onboard sensors, systems integration, tactical navigation, and in-flight reporting functions and installs on one (1) Mexican c-26 aircraft to replace an obsolete ADAM VII system.	FLIR (380-HD), DMS (ITI), Delta Encoders, Falcon View, Tachyon AXIOM 9300
Mexico (Police)	Air Fleet Management Program	ITI developed a “Sensor Operator Training Course” for the Mexican Procuraduría General Pilots of the Schweizer 333 Light Observation Helicopter Border Surveillance Program. ITI contracted and provided off-duty San Antonio Police Department pilots to conduct FLIR Sensor Operator training on the WESCAM 12D. Training was provided in Mexico City and Acapulco, Mexico. ITI evaluated the effectiveness of training and grasp of course materials by preparing and conducting end of course testing. ITI provided training reports and training course summaries to the customer.	WESCAM MX-12D Camera



Fig 1. Colombia National Police C-26 (ISRAP)



Fig 2. Mexican Air Force C-26 (CNTPO)