



INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO)  
ORGANIZACIÓN DE AVIACIÓN CIVIL INTERNACIONAL (OACI)

COMISIÓN LATINOAMERICANA DE AVIACIÓN CIVIL (CLAC)  
LATIN AMERICAN CIVIL AVIATION COMMISSION (LACAC)



**SECOND MEETING OF THE AVIATION SECURITY AND FACILITATION REGIONAL GROUP  
(AVSEC/FAL/RG/2)**

Antigua and Barbuda, 16 to 18 May 2012

AVSEC/FAL/RG/2 — WP/13  
09/05/12

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**Agenda Item 6                      Aviation Security (AVSEC) and Facilitation (FAL)**  
**6.2                      Report on FAL/AVSEC Equipment Acquisition Project**

**MODEL PROJECT FOR AVSEC/FAL EQUIPMENT ACQUISITION**

(Presented by the FAL/AVSEC Equipment Acquisition Project – Coordinated by Paraguay)

**SUMMARY**

This working paper presents a summary referred to needs for design guidelines for the acquisition of security and facilitation equipment to be used at the international airports in order to dispose essentially a model project that contributes to the States in adopting common criteria on the acquisition of equipment while considering the minimum criteria for acceptance of them.

It is considered that in order to develop this task is required, first of all, the corresponding model project which shall include information about security and facilitation equipment usually used.

In this respect, accompanies the information and the corresponding template (Appendix) in order to be analyzed for its timely implementation. The data provided were collected based on information available at the time of preparing this note.

**References:**

- Final Report of the First meeting of the ICAO/LACAC NAM/CAR/SAM Aviation Security and Facilitation Regional Group (AVSEC/FAL/RG/1) (Asunción, Paraguay, 25 to 27 May 2011).

<b>Strategic Objectives</b>	<i>This working paper is related to ICAO Strategic Objective B.</i>
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**1.                      Introduction**

1.1                      In the celebration of the First Meeting of the ICAO/LACAC NAM/CAR/SAM AVIATION SECURITY AND FACILITATION REGIONAL GROUP (AVSEC/FAL/RG/1), held in Asunción, Paraguay, on 25 to 27 May 2011, there were carried out among others, transfers of the terms of reference and tasks and it was denoted the need to establish updated guidelines for the implementation of equipment acquisition projects, designed to include security measures and simplification of procedures at airports in the field AVSEC and FAL, against acts of unlawful interference.

## 2. Discussion

2.1 The subject is important due to a constant evolution of the regional air transport that involves moving large numbers of passengers, cabin baggage, checked baggage and cargo to be inspected, for which it was recognized the need to generate a Model Project of equipment acquisition, in order to provide standardized processes and acquisition evaluation of these equipment.

2.2 The idea of having a document that includes standardized processes, would respond the following reasons:

- There are current unsatisfied needs or it is foreseen that they may exist in the future if measures are not taken on this respect.
- There are potentialities or sub exploited sources that may optimize and improve the current conditions.
- Need to complement or reinforce other activities or projects which are produced at the same place and with the same involved people.

2.3 It seems appropriate to consider a model project that would allow generalizing the technical requirements and yield of the technologies used in aviation security and facilitation (AVSEC/FAL), and promote cooperation in this field to be obtained as result, especially regarding methodologies, technical data and logistical economic opportunities of acquisition, maintenance and technical training of operating personnel.

2.4 The type of work that could be adopted is to have a model project for the acquisition of AVSEC/FAL equipment, while leveraging the experience of States that are more advanced in the subject.

2.5 The information submitted for review in **Appendix A** is a basic model proposed acquisition of AVSEC/FAL equipment and the template in **Appendix B** is to share information on technical characteristics, maintenance and estimated costs to be used as a reference while to encourage States to implement as part of their plans and programs relevant projects according to each particular case.

## 3. Conclusion

3.1 As previously mentioned, is necessary that this task continue and be supported by the States, in order to unite reinforces to reach the main common goal, which is the International Civil Aviation Facilitation and Security against the unlawful interference acts. This has not the purpose to set in disadvantage the States that lack of the necessary sources to ensure their compliance, more on the contrary the aim is to help them make the best decision when they reach the point of the need for renewal or purchase of equipment.

**4. Suggested Action**

4.1 The Meeting is invited to:

- a) Take note of the proposed Model Project presented in this working paper;
- b) Review the information presented in the respective Appendixes; and
- c) Exchange views adding more information and solving the mentioned in order to continue the task.

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**APPENDIX A**

**BASIC PROJECT MODEL**

**1. PROJECT IDENTIFICATION:**

**NAME OF THE PROJECT: AVSEC/FAL EQUIPMENT ACQUISITION**

**Entity:** \_\_\_\_\_

**Country:** \_\_\_\_\_

**Execution Place:** \_\_\_\_\_

**Duration of the Project:** \_\_\_\_\_

**Sources:** \_\_\_\_\_

**RESPONSIBLE UNITS**

**Denomination:** \_\_\_\_\_

Name: \_\_\_\_\_ Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Email: \_\_\_\_\_

Name: \_\_\_\_\_ Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Email: \_\_\_\_\_

**2. PROBLEM IDENTIFICATION:**

Recently, civil aviation has experienced a vertiginous growth influenced by several factors properly identified. Therefore, this growth needs to be accompanied by appropriate infrastructure that must be equipped according to the particular needs of each state and its airports. In considering these factors, we conclude on the need to provide adequate care and support to the project, through the provision of means of human sources, technical and economic mechanisms.

**3. PROJECT DESCRIPTION: JUSTIFICATION**

The main proposal is intended to provide States of the information corresponding to the technical data of equipment that will form the necessary facility to carry out inspections AVSEC and FAL at airports, according to regional needs. It is considered that these acquisitions will contribute to equip services and control points, the appropriate technology of vital importance for AVSEC and FAL in the field of civil aviation.

**PROJECT PROFILE OBJECTIVE**

**GENERAL OBJECTIVE:**

Providing the States, through an acquisition model project, the guideline to reach specific objectives in the limits imposed by a budget, qualities previously established and a time period previously defined in order to guide the procedures for the equipment acquisition and the suitability of AVSEC/FAL airport controls, effectively, efficiently and safely allowing them to fulfill the obligations according to local needs.

**SPECIFIC OBJECTIVE:**

- To incorporate the latest technology equipment to increase the existing technological level, in order to adjust to international standards and quality control procedures.
- To train adequately the technical and operational personnel.
- To improve and adapt the airport facilities.

**4. GENERAL GUIDELINES**

The equipment selection must be preceded by adequate information outlet through equipment manufacturers, trade publications, sale associations, business references, etc. and must be distinguished the two stages involving throughout the selection process:

- Choosing the type of equipment for specific proposals, and
  - Selection between different teams within the type chosen, in order to decide between the proposals.
- For project purposes especially would be interested in selecting the type of equipment, with the evaluation criteria for optimal selection those who are determined by:

**A.- TECHNICAL FEATURES:** All equipments have certain technical characteristics that may influence the selection among some of them we can mention the following:

- Packaging:** A feature that points out that requirement that may have the equipment for proper operation.
- Operation:** If it is easy or has some operational difficulties.
- Capacity and speed:** Linked to the responsiveness.
- Operating Characteristics:** Indicate whether there are specific features for each team.
- Concurrency:** If possible operate together with other machines or equipment.
- Reliability:** Related to its specifications in general.
- Modularity:** In relation to the responsiveness.
- Special Features:** Specifications that can be very particular in relation to other equipments.

**B.- COSTS:** The economic aspect related to the equipment must be analyzed in the context of the following aspects:

- Acquisition:** Is the amount corresponding to the acquisition of equipment needed by the project. The amount usually involves the installed equipment.
- Staff:** When there is demand for certain qualifications for personnel who will operate or maintain equipment, or when numerical difference in terms of staffing requirements, estimate the increased cost corresponding to these facts.
- **Training:** Cost of initial training required to operate the equipment.
- Materials:** If equipments have marked differences in requirements.
- Installation:** May be waived if the differences are included under which corresponds to the acquisition.
- Extension or Volume:** If the size or volume differences them, so there is a greater need for physical space.
- Operation:** If there is a marked difference in operating costs between the equipment that are considered in the selection.

**C.- RELATION WITH SUPPLIERS:** Considering that the equipment the project may need, should maintain optimal performance and continuous, it is necessary that in the selection for its acquisition, takes into consideration those aspects that are related to supplier performance, such as:

**-Training:** related to the facilities that may exist to train staff who shall operate and staff who shall maintain the equipment.

**-Maintenance:** Consider the after-sales service offered by suppliers, for proper maintenance, based on good infrastructure of staff, workshops, rescue teams in place and a sufficient stock of spare parts.

**-Simulation:** it must be measured possibility that suppliers provide to simulate conditions in which they operate the equipment and the responses that can be expected from them.

**-Demonstration:** it should be considered as pre-acquisition stage, a demonstration period of the operation of the equipment.

**-Testing:** Complementary to the demonstration should be evaluated the possibility that the team can be tested for operation in real conditions in which they shall operate.

**5. NECESSARY SOURCES**

**TOTAL PROJECT COST**

Depending on the units to be acquired, according the local needs of each State and the threat level.

The total cost calculus must be analyzed and performed by each responsible unit.

The total cost rises to the amount of american dollars (\*) \_\_\_\_\_

**6. DESTINATED SOURCES**

Amount in american dollars (\*) \_\_\_\_\_

(\*) reference currency

For the acquisition of:

Equipment description:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Observation:** The processing and approval of these resources shall be made through the respective administrative authorities.

**7. RECOMMENDATIONS**

Considering the physical space to be assigned for the equipment installation so that they are appropriate and allow a comfortable movement and fast traffic for the user and the staff in the field of control. Soil textures or surfaces to be used, electrical installation lighting, air conditioning, insulation.

**8. TECHNICAL SPECIFICATIONS**

Equipment: \_\_\_\_\_

Accessories included: YES \_\_\_ NO \_\_\_ Type: \_\_\_\_\_

Spare parts: YES \_\_\_ NO \_\_\_ Type: \_\_\_\_\_

Maintenance: YES \_\_\_ NO \_\_\_ Period of time: \_\_\_\_\_

Training: YES \_\_\_ NO \_\_\_ Period of time: \_\_\_\_\_

Series: \_\_\_\_\_

**Characteristics of the Units:**

**BRAND:** \_\_\_\_\_

**MODEL:** \_\_\_\_\_

**POTENCY:** \_\_\_\_\_

**TYPE:** \_\_\_\_\_

**CARGO:** \_\_\_\_\_  
**TRANSMISSION:** \_\_\_\_\_  
**ELECTRIC SYSTEM REQUIRED:** \_\_\_\_\_

**Project benefits:**  
**EXPECTED PRODUCT** \_\_\_\_\_  
 \_\_\_\_\_  
**EXPECTED RESULTS** \_\_\_\_\_  
 \_\_\_\_\_

**MAINTENANCE PLAN  
 GENERAL SITUATION**

It requires the implementation of rigorous maintenance plans, both preventive and corrective that are well planned and according to the manufacturer's suggestions, to ensure the equipment life.

**MAINTENANCE PLAN**

There is designed a preventive maintenance plan with the strictness necessary to keep units in good condition. The plan includes:

\_\_\_\_\_ to ensure the operability of the units, maintaining a stock of spare parts such as:

Description: \_\_\_\_\_

The maintenance plan shall be executed with strictness, according to the manufacturer specifications.

**PROJECT EXECUTION**

It shall be ruled by a plan or timeline to be established by its responsible. It shall be executed and organized with lineament made by the Unit \_\_\_\_\_ and the Unit (if applicable). In addition, assistance shall be granted according the required cases.

**EXECUTION PLAN**

EQUIPMENT DESCRIPTION	INVESTMENT (USD)	EXECUTION TIMELINE (MONTHS)		
		MONTH 1	MONTH 2	MONTH 3

**INVESTMENT PLAN**

EQUIPMENT DESCRIPTION	INVESTMENT (USD)	EXECUTION TIMELINE (MESES)		
		MONTH 1	MONTH 2	MONTH 3

**Conclusion and recommendations:**

If desired more depth on the results of the project, should proceed to feasibility or feasibility study, however it is advisable to consider the additional cost it represents and the time involved in accordance with the progress of the investment.

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**FORMULARIO SOBRE EQUIPOS DE SEGURIDAD Y FACILITACIÓN / SECURITY AND FACILITATION EQUIPMENT FORM**

(Datos referenciales a ser actualizados y completados) / (Referential data, information to be completed)

EQUIPO EQUIPMENT	FABRICANTE MANUFACTURER			CARACTERÍSTICAS TÉCNICAS TECHNICAL FEATURES	FECHA DE ADQUISICION ACQUISITION DATE	PROCEDENCIA ORIGIN	VALOR DEL BIEN REFERENCIAL EN USD (COSTO REFERENCIAL EN VALUE OF THE GOOD (REFERENTIAL COST IN USD))	VIDA UTIL (AÑOS) LIFETIME (YEARS)	COSTO DE MANTENIMIENTO ANUAL Y/O SEMESTRAL ANNUAL AND / OR SEMESTER MAINTENANCE COST	NIVEL DE RENDIMIENTO PERFORMANCE LEVEL
	MARCA	MODELO	CANTIDAD							
DETECCIÓN DE EXPLOSIVOS EXPLOSIVES DETECTION	SMITHS	SABRE				CANADA	49.500	10		100%
	DETECTION	4000								
EQUIPOS DE RAYOS X X-RAY EQUIPMENT	RASPICAN	528				USA	103.500	10		90%
	SMITHS	XHS6040I		Rx 60x40		CANADA	58.500	10		100%
	SMITHS	100100T		Rx 100x100		CANADA	104.700	10		100%
	MORPHO DETECTION	HRX1000D				USA	102.500	10		80%
PÓRTICOS O ARCOS DETECTORES DE METALES PORCHES OR ARCHES METAL DETECTORS	CEIA	PMD2 Plus				USA				
	EC&C	SENTRIE- AT				USA		10		80%
	GARRETT	PD500i				USA	12.800	10		100%
DETECTOR MANUAL DE METALES MANUAL METAL DETECTOR	GARRET					USA	600	05		100%
CIRCUITO CERRADO DE TELEVISION TELEVISION CLOSED CIRCUIT	ISS	2011		4 DVR		ASIA	600			100%
LECTOR DE DOCUMENTOS DE VIAJE DE LECTURA MECANICA/ IDENTIFICACION BIOMETRICA MACHINE READABLE TRAVEL DOCUMENTS/BIOMETRIC IDENTIFICATION										
OTROS EQUIPOS UTILIZADOS OTHER EQUIPMENT USED	HEIMAN BISTEN	HS 6040i								
	HEND HELD									
	HEND HELD									
	HEND HELD									

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