



Agenda Item 2: Review of the air navigation deficiencies and of the Action Plans to resolve them

ICAO CAR/SAM AIR NAVIGATION DEFICIENCIES DATABASE

(Presented by the Secretariat)

SUMMARY

This paper presents information on the ICAO CAR/SAM Air Navigation Deficiencies Database in order to provide secure on-line access to the deficiencies of the CAR/SAM States, Territories and some selected International Organizations.

1. Introduction

1.1 The ICAO NACC and SAM Regional Offices developed a database of the CAR/SAM Air Navigation Deficiencies using Microsoft Access software as a uniform methodology for identification, assessment and reporting of air navigation deficiencies from the Regional Offices and the GREPECAS Mechanism.

1.2 This database resulted from the work developed during a Special Implementation Project approved by the ICAO Council as a follow-up to the Reports of GREPECAS/10 and GREPECAS/11 Meetings, where the States/Territories/International Organizations expressed their interest in establishing a methodology to allow on-line access to deficiencies information and to update it with appropriate corrective measures.

2. Project description

2.1 The access procedure to the database enables an effective, constant and secure reference so that States and Territories of the CAR/SAM Regions and some selected International Organizations may examine on real time the information on deficiencies and may report the corresponding changes to update their respective air navigation deficiencies in relation to data management, classification and presentation, including Action Plans for their solution.

2.2 The necessary measures have been taken to prevent unauthorized access to the general public, representatives of the media, insurers and lawyers, as well as to retain control of the validation and publication of deficiencies information by the ICAO Regional Offices. This will benefit States, Territories, International Organizations, GREPECAS mechanism and ICAO, to improve the diffusion and to facilitate handling and follow-up of the information contained in the CAR/SAM Regions Air Navigation Deficiencies Database.

2.3 The process and infrastructure of the project schematically illustrated in **Appendices A** and **B**, respectively, were developed by a Systems Analyst/IT specialist through the following activities:

- Database analysis
- Web Server and security policies implementation
- Database manager installation (MySQL)
- Database application, indexing and printing development
- Physical Database migration
- Automation of the Database transfer
- Testing and documentation

2.4 The project, including preparatory activities, started in August 2004, finalized in September 2004 is available to the incumbents, in English and Spanish, and can be accessed through the ICAO web page of the NACC Office.

2.5 The selected States/Territories/International Organizations will be able to access the ICAO CAR/SAM Air Navigation Deficiencies Database in the CAR/SAM Regions through a particular password at the following electronic address: www.mexico.icao.int/bases. The access instructions are depicted in **Appendix C** to this Working Paper.

3. Action by the Meeting

3.1 The Meeting is requested to take note of the content of this paper and to take action as appropriate.

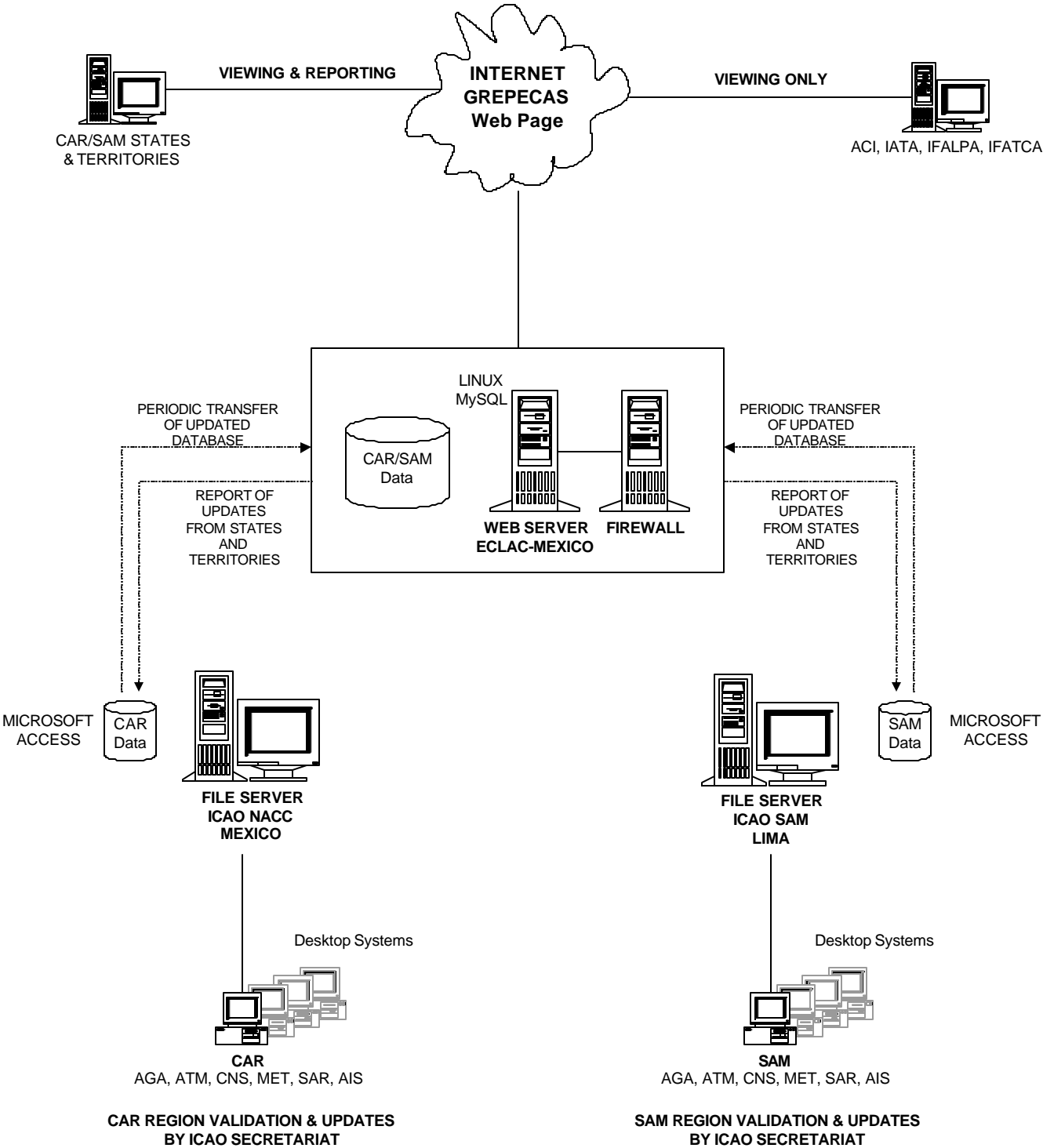
APPENDIX A

PROCESS



APPENDIX B

INFRASTRUCTURE



APPENDIX C

SPECIAL IMPLEMENTATION PROJECT PUBLICATION OF THE CAR/SAM AIR NAVIGATION DEFICIENCIES VIA INTERNET

With the purpose of providing on-line access to the Air Navigation Deficiencies Database and that States/Territories in the CAR/SAM Regions have an appropriate way to identify, assess and report changes, an application to publish the Database through the Internet has been implemented in such a way that a timely follow-up can be given by using this technology.

This application has been finished and is available for the States/Territories of the CAR/SAM Regions through the link “GREPECAS AIR NAVIGATION DEFICIENCIES DATABASE (GANDD)” available in the following address: www.icao.int/nacc

When accessing this link a header will open where some selection buttons will appear for filtering the search of some deficiencies in particular (it is recommended to use a resolution screen of 1024 x 768 pixels even though it is also possible to work with 800x600 pixels).

Access to this site is restricted with the use of a username and a password which will be requested at the moment of accessing the corresponding link.

In accordance with the username used, the deficiencies corresponding to that State will initially appear, however, it is also possible to see the global information by using the corresponding filters.

Filters can be created by selecting the Region, Area, State and corrected fields.

Once the combination of these is selected, press the button “Search” and the table or tables containing the requested information will show as follows:

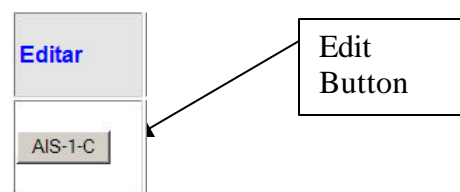
Records found for region CAR in the area AGA in Costa Rica

Identification			Deficiencies			Corrective Action			
Edit	Requirements	States/ Facilities	Description	Date First Reported	Remarks	Description	Executing Body	Date of Comple- tion	P
AGA-44-C	Visual Aids (Annex 14, Vol. I, Chap. 5 and ANP, Table AOP 1)	Costa Rica, ALAJUELA, Juan Santamaría Intl	Non standard TWY markings and non standard signs	1996	IFALPA Meeting November 2000	Replaced by deficiency AGA 232 C	Costa Rica	2002	A
AGA-86-C	Bird Strike Hazards (Annex 14, Vol. I, Chap. 9.5)	Costa Rica, ALAJUELA, Juan Santamaría Intl	Bird strikes reported, sanitary landfills located in the vicinity of airport	2000	ASB/4 Review	Undertake bird hazard assessment to identify mitigation measures	Costa Rica	2002	U
AGA-76-C	Pavement Surface Conditions (Annex 14, Vol. I, Chap. 9.4)	Costa Rica, ALAJUELA, Juan Santamaría Intl	Excessive rubber deposit on runway surface resulting in poor friction characteristics - Ref. Annex 14, Vol. I, Section 9.4.10	2000	IATA Report December 2000	Remove rubber from runway surface	Costa Rica	2002	U

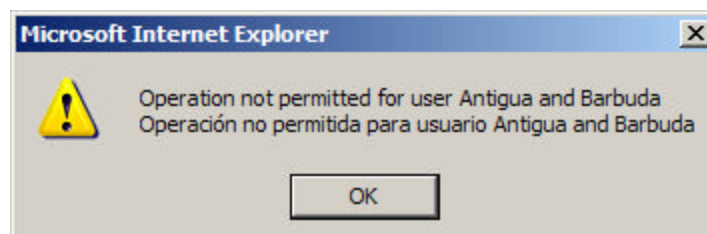
Initially the information will be presented in English, if the information is required in Spanish, press the button of language shown in the upper left corner of the page.

The information shown is the present information captured in the databases of each one of the CAR/SAM Regional Offices.

The intention of showing the databases through the Internet is for Contracting States/Territories to see the information at any moment and request its change and/or update. For this purpose a capture form has been created that could be displayed for each deficiency by pressing the buttons of the column “Edit”.



Only those users whose name and password correspond to the deficiency edited will be the ones authorized for its edition, on the contrary a message similar to the following will be shown:



In case the edition is authorized, a form with the information of the selected deficiency will appear as shown below:

Id	Area	Region	Subregion	Requirement	State	Corrected
90	AGA	CAR	ECAR	ANNEX	Antigua and Bar	2000
Requirements Runway Strip (Annex 14, Vol. I, Chap. 3.3, 3.3.4, 6 & 15)						
States/Facilities Antigua and Barbuda, ST. JOHNS, V. C. Bird Intl						
Description Runway strip width is insufficient and contains objects in the following areas: West and east runway ends – concrete pits East runway end – fence, road & sea West runway end north side – fence, road, terrain, vegetation & buildings North side – apron, parallel taxiway and closed runway used for parking aircraft Central portion south side – fence & terrain						
Date First Reported 07/2001						
Remarks ICAO Visit July 2001						
Description/Corrective Action Remove or modify objects located in the runway strip and widen the runway strip. Reduce the runway declared distances by approximately 100 m. Action Plan: Development of new apron planned.						
Executing Body Antigua and Barbuda Ministry of Aviation						
Completion_date 2003/2005						
Priority A						
<input type="button" value="Submit"/>						

The request for changing and/or updating the information should be captured directly on such form in the fields allowed, either in Spanish or English, and once done press the Button “Submit”.

The same procedure should be followed for each Registry willing to be modified.

The modified information of each registry will be sent via e-mail to the Regional Office concerned, NACC or SAM, according to the selected State, however, the database will not reflect immediately the requested changes. Those changes will be previously validated by the Regional Officer in each area before being updated in the database.

Updates to the databases published in the Web will be made periodically, at least 45 days or less which will be decided by each area officer.