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**Agenda Item 2:           Air Navigation Issues**

**2.2       Air Navigation Deficiencies**

**ICAO CAR/SAM AIR NAVIGATION DEFICIENCIES DATABASE SIP**

(Presented by the Secretariat)

**SUMMARY**

This paper presents a Special Implementation Project (SIP) approved by the ICAO Council for the enhancement of the ICAO CAR/SAM Air Navigation Deficiencies Database with the objective to provide secure on-line access to the deficiencies information to CAR/SAM States, Territories and selected International Organizations.

**1.           Introduction**

1.1           The ICAO NACC and SAM Regional Offices have developed a database, using Microsoft Access software, of the CAR/SAM air navigation deficiencies to facilitate the implementation of the uniform methodology for the identification, assessment and reporting of air navigation deficiencies by the Regional Offices and the GREPECAS Mechanism. The database enables more effective management of the reporting form of air navigation deficiencies in relation to data management, sortation and presentation, including States' Action Plans. The ICAO Council and Air Navigation Commission have remarked on the benefit of using database technology for the follow-up of deficiencies when reviewing the GREPECAS/10 and 11 Meeting Reports. This was reiterated during the 11<sup>th</sup> Air Navigation Conference held in Montreal from 22 September to 3 October 2003.

1.2           A concern expressed by States/Territories and International Organisations at several regional meetings which has not been resolved through the use of database software is that the correction of deficiencies is not incorporated in the database in a reasonable time-frame and is often not reflected upon the presentation of the deficiencies at the next opportunity, usually the next regional meeting in which the State participates. It is clear that the established procedure for reporting the correction of deficiencies included in the reporting form requires notification by States or Users to the ICAO Regional Office informing that the correction has been completed. The ICAO Regional Office then validates the reports and updates the database and the current information is presented in a working paper at the next regional meeting of States.

1.3 At several regional meetings, States have requested ICAO to enable on-line access to view the deficiencies information and to allow States to submit reports with updated corrective action information. Similarly, some International Organisations have requested access to the deficiencies information in between meetings to avoid follow-up of deficiencies which have already been corrected but of which they are not aware until the next regional meeting of States.

1.4 This discussion was repeated at the 3rd Meeting of the GREPECAS Aerodromes and Ground Aids/Aerodrome Operational Planning Subgroup (AGA/AOP/SG/3) held in Monterrey, Mexico from 30 September to 3 October 2003, where the Meeting adopted the following Draft Conclusion for consideration by GREPECAS:

**DRAFT CONCLUSION**

**AGA/AOP/SG/3/2**

**SPECIAL IMPLEMENTATION PROJECT TO FACILITATE  
AND IMPROVE THE MANAGEMENT OF THE DEFICIENCIES  
DATABASE**

That ICAO prepare and submit to the Council a proposal for a Special Implementation Project to develop a secure process for managing the ICAO air navigation deficiencies database for the CAR/SAM Regions on the Internet, permitting the controlled on-line introduction of updated information by States for their respective deficiencies and access to a frozen format of the information contained in the database by States, ACI, IATA and IFALPA.

1.5 The Draft Conclusion AGA/AOP/SG/3/2 was submitted by the AGA/AOP/SG to the ACG on 30 October 2003, which in turn circulated it to GREPECAS members on 4 November 2003 for their approval. The Conclusion was approved on 15 December 2003.

1.6 In October 2003, in response to the numerous requests from States/Territories and International Organisations in the CAR/SAM Regions, in anticipation of the likely approval by GREPECAS of the Draft Conclusion AGA/AOP/SG/3/2 and considering the imminent deadline for the submission of Special Implementation Project (SIP) proposals to the ICAO Council, the ICAO Regional Offices prepared a proposal for a SIP for the enhancement of the ICAO CAR/SAM Air Navigation Deficiencies Database. The SIP objective was to provide secure on-line access to view the deficiencies information to CAR/SAM States, Territories and selected International Organisations. It was also proposed that States/Territories be able to submit on-line reports of updated information on its respective deficiencies. The SIP proposal was presented to the ICAO Council in C-WP/12189 dated 19 February 2004. The proposal was reviewed by the ICAO Council which in March 2004, at the 8<sup>th</sup> meeting of its 171<sup>st</sup> Session, approved the SIP for implementation. The preparatory activities for the SIP commenced in May 2004 and the project is expected to be completed by August 2004.

1.7 Implementation of such a project, with all the necessary safeguards to prevent unauthorised access to the deficiencies information, including by members of the public and representatives of the media, insurers and lawyers, and retaining control of the validation, management and publication of deficiencies information in the ICAO Regional Offices, will improve the currency and facilitate the management and follow-up of the deficiencies information contained in the CAR/SAM Air Navigation Deficiencies Database, including States' Action Plans. This will be to the benefit of States, Territories, International Organisations in the CAR/SAM Regions, the GREPECAS mechanism and ICAO.

## **2. Project Description**

2.1 The project process and infrastructure are schematically illustrated in **Appendices A and B** respectively. The project requires a Systems Analyst / IT specialist to undertake the following activities:

- Database analysis
- Web Server implementation and security policies
- Database manager installation (MySQL)
- Database Application, indexing and printing development
- Physical Database migration
- Automate Database transference
- Testing and documentation

## **3. Project Programme**

3.1 The duration of the project, including preparatory activities, is estimated to be 3 months with a commencement in May 2004 and completion expected by August 2004. The project programme is presented in **Appendix C**.

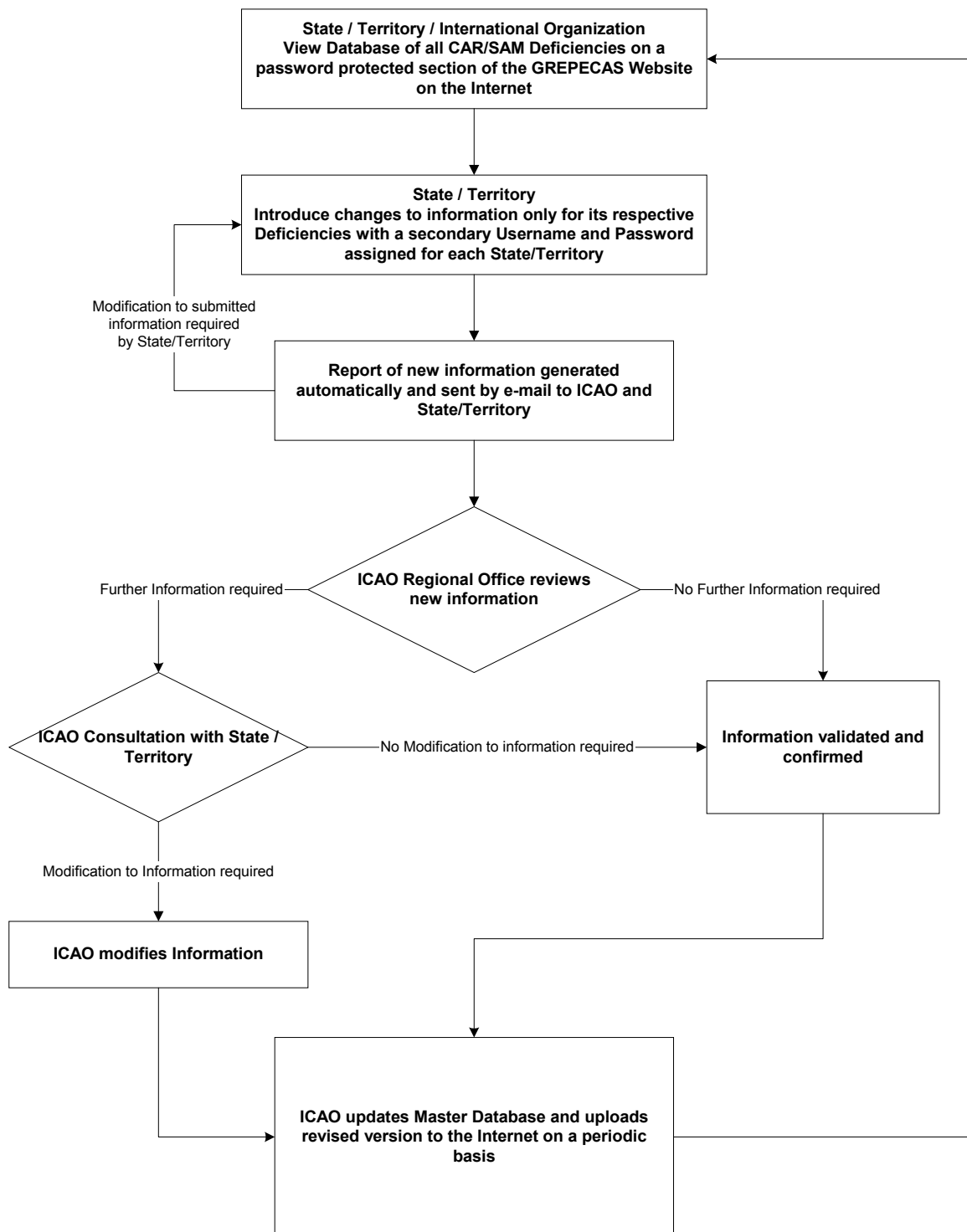
## **4. Action by the Central Caribbean Directors of Civil Aviation**

4.1 The Meeting is requested to note the content of this paper and provide comments as appropriate.

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## APPENDIX A

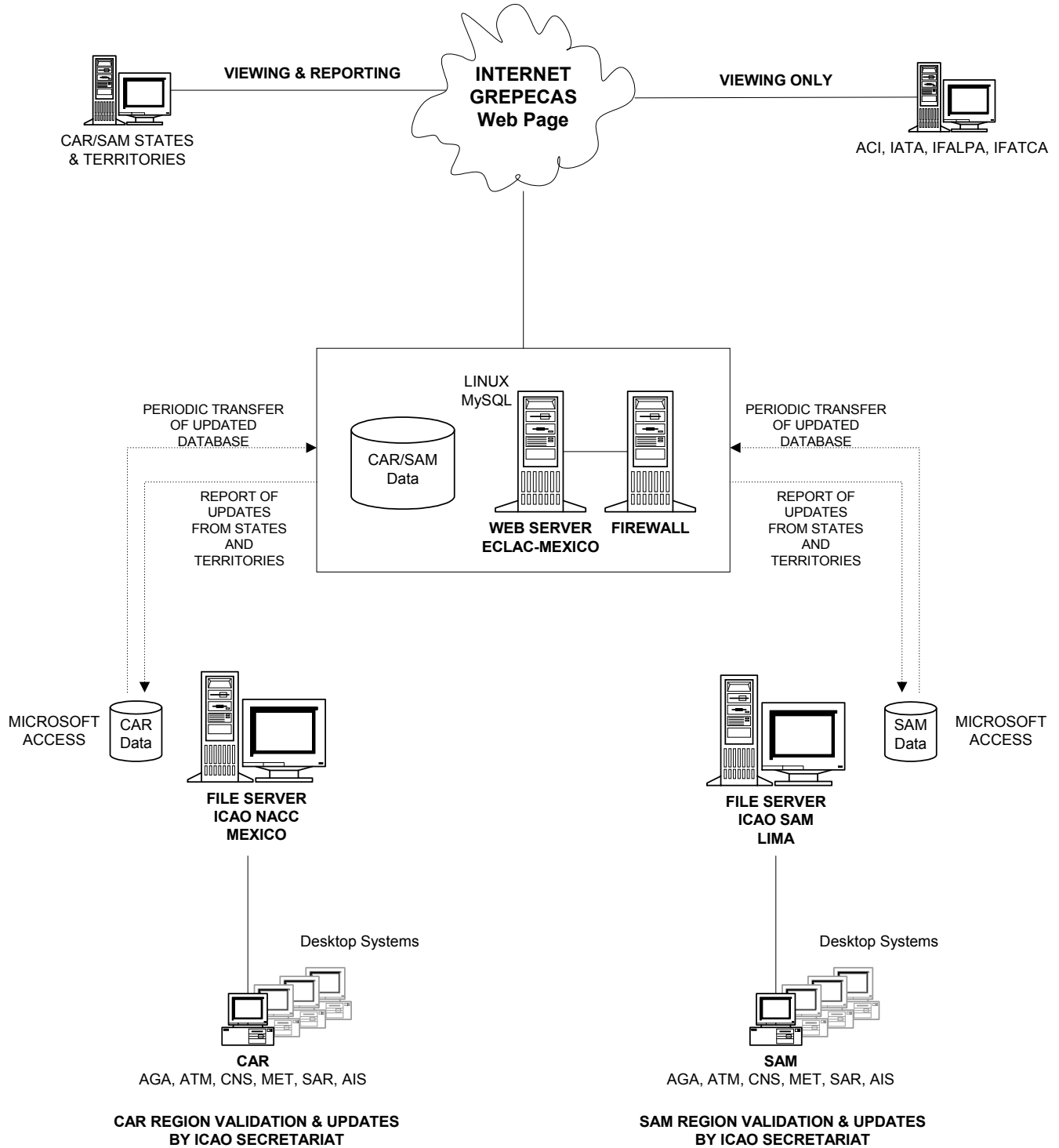
### PROCESS



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## APPENDIX B

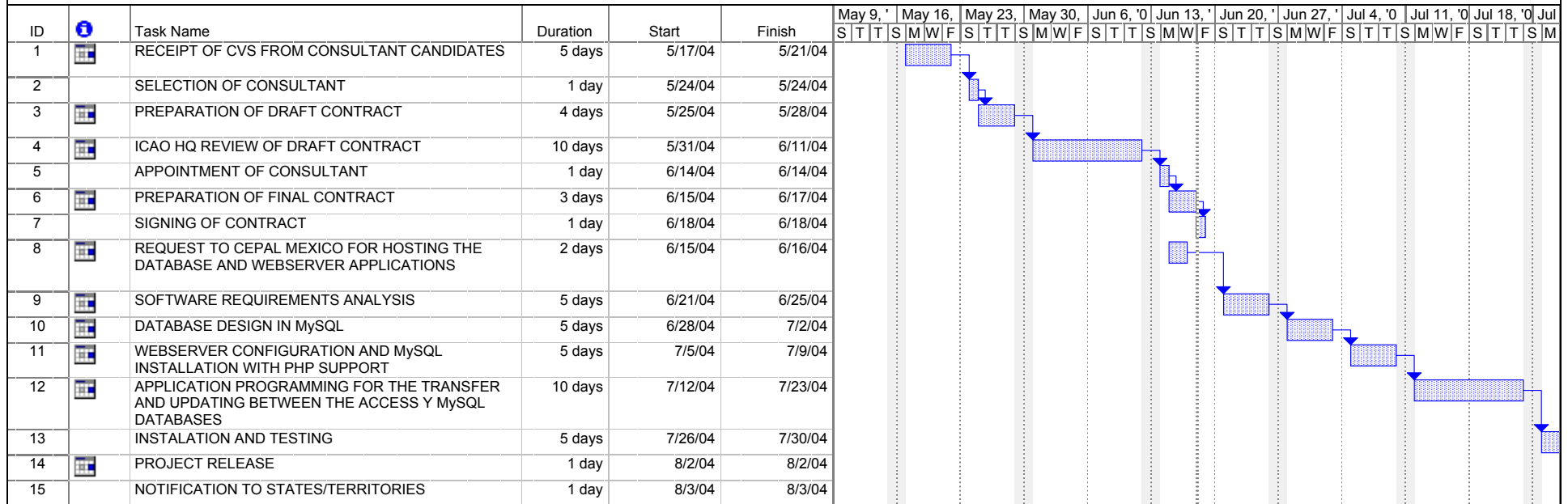
### INFRASTRUCTURE



PROGRAMME

C/CAR/DCA/7-WP/17

Appendix C



Project: SIP  
Date: 6/18/04

Task

Split

Progress

Milestone

Summary

Project Summary

External Tasks

External Milestone

Deadline