



AIM RBIS Project – Workshop on Go-team methodology

Experience sharing on TOD implementation minimum

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Virtual June 2022



Outline

- Introduction
- Description of the implementation process
- Challenges encountered
- Lessons & recommendations





Introduction

- On 23 February 2004, the ICAO Council adopted Amendment 33 to Annex 15,
 Aeronautical Information Services which included the addition of a new chapter 10 –
 Electronic Terrain and Obstacle Data requirements
- By APIRG17 AFI states were invited to engage national and intraregional cooperation for the implementation of eTOD
- 2013, ASECNA extended WGS-84 to secondary airports, terminal enroute area related to secondary areas with possibilities of update (change of RWY, TWY, APRON, airport landscape configuration,...)
- 2015, ASECNA as ANSP of 17 members states launched the process for the procurement of eTOD and AMDB





Description of the implementation process

1.	Creation of the Project	6. Preparation of the bid case7. National policy regulating coordination and referral mechanisms in the country	15. Acceptance on site and operational validation of the bases
2.	Definition of the Terms of Reference of Service (TRS)	8. Call for Tenders, opening of bids and analysis of bids (Emergency procedure)	16. Customer satisfaction survey (survey on a questionnaire)
3.	Development of the Terms of Reference for Studies (TRE)	Decision on the Agency's strategic choice for implementation (taking into account operational priorities)	
4.	Consolidation of the Terms of Reference for multi-component studies	10. Transmission to the CAAs of the costs for works concerning zone 1 and national aerodromes	
5.	Approval of the Terms of Reference for Studies	11. Processing of the administrative file and Notification of the contract to the selected company	
6.	Finalization of the studies phase	12. Realization of the project	
7.	Drafting of the Pre-Project Summary (APS)	13. Receipt of equipment and provisional validation of data	
8.	Approval of the Preliminary Draft Project (APS)	14. Training on the administration and operation of databases and other geospatioal data surveyors	
9.	Approval of the Detailed Preliminary Project (APD) by the Technical Committee	15. Training on the transfer of skills in completing or updating eTOD and AMDB data	





Challenges encountered

- Estimate of the financial cost of the areas related to each airport
- Lack of Expertise to qualify data (integrity and accuracy requirements).
- lack of expertise in setting-up terms of reference
- insufficient experience in drafting the call for tenders' case
- insufficient experience in validating the technical and financial proposals
- non-existence of Personnel with aviation background in Survey organization
- Limitations in in-house human resources & logistics; Launch of recruitment
- Training of in-house staff to geospatial profile (appreciate conformity coverage of geodata, accuracy of geodata, ...)



Recommendations

- Start by pilote site
- Conduct WGS-84 survey that should be used as ground control point
- Draft a special plan separating terrain procurement and obstacles procurement
- Define the validation criteria clearly understable to in-house personal or to hired staff
- Setting-up national policy gathering main stakeholders and stating accredited source status
- Store TOD into AIXM database with possibilities to process them (change, upgrade, extract, import/export, ...)
- Acquire GIS application to control data, use data for procedure design and charts
- Define national mechanism for data approval
- Implement special plan for this site airport
- Extend this experience to more airports









