



Agenda Item 3: Database and common repository

c) Feasibility of a common repository of SAT safety-occurrences

(Prepared by SAT SOG)

SUMMARY
This working paper provides an update on the ongoing work of the SAT SOG in implementing a feasibility analysis of a common repository of SAT safety-occurrences for the SAT Region.
REFERENCES
<ul style="list-style-type: none">• SAT 24 meeting• ACM-S meeting• SAT –S meeting

1. Background

1.1 Through research submitted to the Regional Monitoring Agencies (RMAs), two processes related to the database were identified - data collection, processing, and dissemination.

1.2 The SAT SOG has been tasked with monitoring the safety management of air traffic service provision in the South Atlantic region and encouraging the adoption of best practices. As part of this action, the group seeks to develop a plan to implement an SAT Region database similar to the one in the NAT Region and harmonize the procedures adopted by the States for repository provision. To achieve this goal, the SAT SOG conducted research with the RMAs to determine the best approach for data collection, processing, and dissemination.

1.3 After standardizing the collected data, this note proposes conducting a feasibility study to determine whether centralizing the SAT SOG database within one RMA or partitioning the database across the three RMAs would be more viable. Additionally, the note recommends that the SAT SOG request access to the KSN portal for data dissemination.

2. Analysis

2.1 Through a survey submitted to the RMAs, it was identified that two processes are related to the SAT SOG database: one for data collection and processing and another for dissemination. The question that needs to be addressed is whether the SAT SOG database for receiving and processing forms should be partitioned among the three RMAs (ARMA, CARSAMMA, and SATMA) or centralized in a single RMA, with the proposal being that CARSAMMA serves as the central RMA.

2.2 In addition to standardizing the forms, the entire SAT region community should be trained to fill out the forms, and submit them, within the proposed framework.

2.3 To determine the best approach for the database, the SAT SOG proposes a feasibility study to determine whether the database should be centralized within one RMA or partitioned across the three RMAs.

2.4 The feasibility study would need to consider the following factors:

- a) Consistency of data collection across the three RMAs;
- b) Efficiency of data processing and management;
- c) Availability of resources and technical expertise; and
- d) Training and education requirements for the SAT SOG and wider South Atlantic region community

2.5 The implementation of a standardized SAT SOG database across the region presents several challenges, including:

- a) Agreement on methodology and tools: The SAT SOG will need to agree on the methodology and tools used to implement and maintain a database of safety-related occurrences reported by RMAs, ANSPs, airspace users, CSPs, States, and relevant stakeholders.
- b) Consistency of RMA databases: The consistency of RMA databases needs to be ensured, considering that data will be collected from the three RMAs covering two different PIRGs.
- c) Centralization vs Partitioning: The decision to centralize the database in a single RMA or partition it among the three RMAs needs to be considered, as the SAT region community must be trained to act according to the proposed framework.

2.6 After standardizing and harmonizing RMA procedures regarding data collection, SAT SOG proposes that the feasibility study conducted by an Ad-hoc consisting of a subject matter expert of the 3 RMAs of its Region and coordinated SAT SOG to determine the best approach for centralizing the SAT SOG database. The study will consider various factors such as data collection, processing, and dissemination efficiency, resource availability, and training requirements.

2.7 During the survey analysis, SAT SOG identified that the RMAs use KSN Portal to disseminate and publicize data. To be familiar with the system, this group requests access to the KSN portal, as using it for data dissemination would be a viable option for this group.

2.8 It is worth noting that the KSN (Knowledge System Network) portal is already being used by all 13 Regional Monitoring Agencies (RMAs). It is beneficial for liaising on reporting non-approved RVSM aircraft flying in RVSM airspace. Additionally, the KSN portal offers high security and ease of use, which would benefit the SAT SOG's data dissemination needs. It would ensure consistency in the reporting process and improve communication between the RMAs in the South Atlantic Region.

2.9 The proposed feasibility study will provide valuable insights and inform the decision-making process for the SAT SOG and its stakeholders in the South Atlantic Region.

3. **Action by the meeting**

3.1 The meeting is invited to:

- a) take into consideration the information presented in this paper; and
- b) approve the creation of an Ad-hoc group to perform the feasibility study.

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