

CANSO

CANSO SAFETY DATA GOVERNANCE

**SAFETY STANDING COMMITTEE
VERSION 1.0**



**SHAPING
OUR
FUTURE
SKIES**

canso.org

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1. Introduction

Global and regional safety data sharing initiatives have demonstrated significant benefits. By sharing safety-relevant data, organisations can identify common trends, uncover root causes, and implement preventive measures more effectively. This collaborative approach not only enhances safety but also drives continuous improvement and the breaking down of silos in an aviation system that is continually becoming more integrated.

The drive towards more collaboration and cross-learning within the industry is a key driver behind CANSO's safety data sharing initiatives. By breaking down data silos and promoting open communication, organisations can leverage collective knowledge and expertise to solve common challenges.

This CANSO Safety Data Governance applies to all safety data sharing initiatives undertaken by or on behalf of CANSO, regardless of their scope or scale. Whether the initiative is local, regional, or global, the principles and guidelines set forth in this document are intended to provide a consistent approach to safety data sharing, ensuring the activities are relevant to CANSO and its members without compromising the protection and identity of organisations.

It is a foundational guide for CANSO and its members at the onset and maintenance of safety data sharing activities.

2. Definitions and Terminology

ANSP: Air Navigation Service Provider.

CANSO SIWG: CANSO Safety Intelligence Workgroup. A group of individuals from ANSPs and other organisations with relevant subject matter expertise. The work group is guided by its Terms of Reference and is accountable to the CANSO SSC-SG.

CANSO SSC-SG: CANSO Safety Standing Committee Steering Group. The SSC-SG oversees the CANSO Safety Performance Benchmark Programme.

CANSO Derivative Product: Any documents, presentations, data bases, meeting reports, etc. produced as a by-product of CANSO safety data sharing initiatives.

Data Steward: The third-party responsible for providing data management in support of CANSO safety data sharing initiatives.

Operational Data: Any real-time or historical information generated from flight operations, air traffic initiatives, or environmental conditions.

Safety Data: Information collected and analysed to assess, monitor, and improve the safety of aviation operations.

3. Scope

This governance applies to the usage of any operational data for the purpose of safety benchmarking within CANSO membership.

4. Policy Rules

Access, use, retention, and disclosure of shared information will be governed by the provisions of this document. Exceptions to the following principles should be made only in cases of explicit agreement amongst the parties involved.

4.1 General Principles

- a. Safety data is to be used for the purposes of enhancing safety, and within a spirit of collaboration and sharing of safety knowledge;
- b. Safety data provided by any participating party shall not be used for oversight, regulatory compliance, or in support to any commercial, competitive, punitive, or litigation activities or purposes;
- c. Due to the sensitive nature of the shared safety data, participating ANSPs, CANSO, and/or any other individual or organisation with access to data shared shall not disclose it externally outside of the scope outlined in 4.1 a) and 4.1 b), or subject to mutually agreed upon data de-identification processes;
- d. ANSP data should be aggregated or de-identified in such a way as to prevent the identification of an ANSP. At a minimum, the de-identification procedures should use a sufficient number of ANSPs such that an ANSP cannot be identified and will be implemented based on specific requirements;
- e. ANSP cohorts can be developed for regional and ad-hoc data sharing contingent upon the execution of identification and/or non-disclosure agreements by the participating ANSPs;
- f. Additional protections may be required dependent upon the type, nature, and purpose of data sharing initiatives. The data requirements should be defined at the onset of these initiatives and should be structured so that only fit-for-purpose data is collected;
- g. Data Stewards should follow industry standard data security processes to prevent inappropriate usage or disclosure of data;
- h. Derived safety products should have a validation process in place to ensure data accuracy is sufficient based on individual use-cases;
- i. As operational paradigms evolve, it may become necessary to augment the associated safety data and models to accurately reflect the current processes. Therefore, a continuous improvement process should be incorporated into the management of safety data to ensure its ongoing relevance and effectiveness.

4.2 CANSO Responsibilities

- a. CANSO will facilitate and promote positive engagement among its members and industry partners in safety data sharing initiatives, both globally and regionally. This collaboration will be used to proactively enhance aviation safety;
- b. CANSO Derivative Products referencing provided safety data shall address the approved usage and dissemination terms;
- c. CANSO Derivative Products will present data in de-identified form (i.e., ANSP, individuals names, or other information that could identify the ANSP will always be de-identified) and will respect cohort data aggregation requirements;
- d. CANSO will respect the data sharing limitations described in 4.1.

4.3 ANSPs Responsibilities

- a. ANSPs may share safety data internally but shall ensure that every staff member is aware of the sensitivity of the data and that it should not be released outside the organisation through access control and proper markings;
- b. When leveraging data or information extracted from CANSO safety data sharing initiatives for industry safety studies or safety forums, ANSPs may only share their own data, as well as deidentified cohort metrics unless consent is obtained from impacted organisations;
- c. ANSPs will respect the data sharing limitations described in 4.1.

4.4 Data Steward Responsibilities

- a. Ensure provided safety data shall address the approved usage and dissemination terms in any external agreements;
- b. Data Stewards will respect the data sharing limitations described in 4.1.

4.5 Information Access

Ensure access to safety data subject to appropriate security protocols with approved individuals.

4.6 Information Ownership

Each Organisation involved in safety data sharing initiatives retains full ownership of any proprietary data provided.

4.7 Information Controls

Each CANSO Derivative Product will contain provisions for information usage and dissemination controls.

