GCAA
ADVISORY CIRCULAR

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AIR NAVIGATION SERVICES INSPECTORATE
AC No.: GCAA AC/ANSI/009

SUBJECT:	**AERONAUTICAL DATA QUALITY**	DATE INITIATED:	18 NOV. 2019
		INITIATED BY:	DIRECTOR – AVIATION SAFETY REGULATION
		DATE AMENDED:	30 JUN. 2025

1. PURPOSE

1.1 The purpose of this Advisory Circular (AC) is to provide guidance and ensure the integrity of aeronautical data is maintained throughout the data process from origination to distribution. The provisions and procedures in this circular do not relieve the end users of aeronautical data and aeronautical information of their responsibility to ensure accuracy and integrity of aeronautical data and information received.

2. AUDIENCE

2.1 This AC is for use by aviation service providers, such as: Air Navigation Service Provider (ANSP), data originators, commercial data houses of aeronautical data, aeronautical information and other users whose data is to be disseminated by the Aeronautical Information Services Provider.

3. CANCELLATION

3.1 Not applicable.

4. EFFECTIVE DATE

4.1 This Advisory Circular becomes effective from June 30, 2025 unless withdrawn or cancelled by the Director General of the Guyana Civil Aviation Authority.

5. CHANGES

5.1 Not applicable.

6. CONTACT INFORMATION

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7. INFORMATION MANAGEMENT REQUIREMENTS

7.1 The information management resources and processes established by the Authority shall be adequate to ensure quality-assured aeronautical data and aeronautical information within the Air Traffic Management (ATM) system by following the processes:
a. collection;
b. processing;
c. quality control; and
d. distribution.

8. SPECIFICATIONS FOR DATA QUALITY

8.1 DATA ACCURACY

8.1.1 The AIS Provider shall ensure that the order of accuracy for aeronautical data shall be in accordance with its intended use.

8.1.2 Specifications concerning the order of accuracy (including confidence level) for aeronautical data shall be as specified in the Procedures for Air Navigation Services Aeronautical Information Management (PANS-AIM, Doc 10066), Aeronautical Data Catalogue.

8.2 DATA RESOLUTION

8.2.1 The AIS Provider shall ensure that the order of resolution of aeronautical data shall be commensurate with the actual data accuracy.

8.2.2 Specifications concerning the resolution of aeronautical data shall be as specified in the PANS-AIM (Doc 10066), Aeronautical Data Catalogue.
Note: The resolution of the data contained in the database may be the same or finer than the publication resolution.

8.3 DATA INTEGRITY

8.3.1 The AIS Provider shall ensure that the integrity of aeronautical data shall be maintained throughout the data chain from origination to distribution to the next intended user.

8.3.2 Specifications concerning the integrity classification related to aeronautical data shall be as specified in the PANS-AIM (Doc 10066), Aeronautical Data Catalogue.

8.3.3 Based on the applicable integrity classification, procedures shall be put in place in order to:
a. Avoid corruption throughout the processing of the data, for **routine data**.
b. Assure corruption does not occur at any stage of the entire process and include additional processes as needed to address potential risks in the overall system architecture to further assure data integrity at this level, for **essential data**.
c. Assure corruption does not occur at any stage of the entire process and include additional integrity assurance processes to fully mitigate the effects of faults identified by thorough analysis of the overall system architecture as potential data integrity risks for **critical data**.

8.4 **DATA TRACEABILITY**

8.4.1 Traceability of aeronautical data shall be ensured and retained by the AIS Provider as long as the data is in use.

8.5 **DATA TIMELINESS**

8.5.1 Timeliness of aeronautical data shall be ensured by including limits on the effective period of the data elements.
Note 1: These limits may be associated with individual data elements or data sets.
Note 2: If the effective period is defined for a data set, it will account for the effective dates of the individual data elements.

8.6 **DATA COMPLETENESS**

8.6.1 Completeness of aeronautical data shall be ensured in order to support its intended use.

8.7 **DATA FORMAT**

8.7.1 The format of delivered aeronautical data shall be adequate to ensure that the data is interpreted in a manner that is consistent with its intended use.

9. AERONAUTICAL DATA AND AERONAUTICAL INFORMATION VALIDATION AND VERIFICATION

9.1 Material to be issued as aeronautical information products shall be thoroughly checked before it is submitted to the AIS Provider, in order to ensure that all necessary information has been included and that it is correct in detail.

9.2 The AIS Provider shall establish verification and validation procedures which ensure that upon receipt of aeronautical data and aeronautical information, quality requirements are met.

10. DATA ERROR DETECTION

10.1 Aeronautical data shall be provided in accordance with the resolution requirements contained in the **Aeronautical Data Catalogue**.

10.2 Geographical coordinates whose accuracy does not meet the requirements specified in the **Aeronautical Data Catalogue** shall be identified.

10.3 The identification of geographical coordinates whose accuracy does not meet the requirements may be made either with an annotation or by explicitly providing the actual accuracy value.

10.4 In aeronautical information products that are distributed on paper, the identification should be done with an asterisk following the coordinate value concerned.

10.5 The AIS Provider shall use digital data error detection techniques during the transmission and/or storage of aeronautical data and digital data sets.

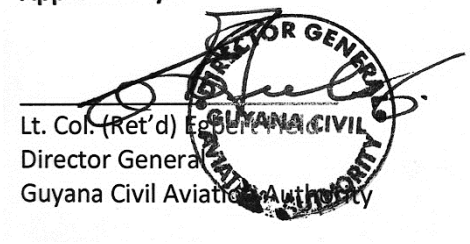
10.6 The AIS Provider shall use digital data error detection techniques in order to maintain the integrity levels as specified in Data Integrity.

10.7 Detailed specifications concerning digital data error detection techniques shall be as specified in the PANS-AIM (Doc 10066).

11. REFERENCES

a. Civil Aviation Requirements for Aeronautical Charts 2024, Requirement 1.17;
b. Civil Aviation Requirements for Aeronautical Information Services 2024, Chapter 3; and
c. ICAO – Documents 10066 and 8126.

Approved By:



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