

TERMS OF REFERENCE
Joint RTCA Special Committee SC-217 / EUROCAE WG-44
Aeronautical Databases
 Revision 12

ORIGINAL REQUESTORS:

Organization	Person
FAA/AVS-1	Margaret Gilligan, Associate Administrator for Aviation Safety

SC LEADERSHIP:

Position	Name	Affiliation	Telephone	email	Change
Chairs	Brian Gilbert	Boeing	425-314-3091	brian.d.gilbert@boeing.com	<i>Phone</i>
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BACKGROUND:

RTCA SC-217, Aeronautical Databases, was established March 13, 2008 and has completed the updates to DO-272D, *User Requirements for Aerodrome Mapping Information*, DO-291C, *Minimum Interchange Standards for Terrain, Obstacle and Aerodrome Mapping Data*, and DO-276C, *User Requirements for Terrain and Obstacle Data*. They have also completed DO-342, *Guidelines for the Verification and Validation of Aerodrome Mapping Database (AMDB) Airport Surface Routing Network (ASRN) for routing applications*, DO-200B, *Standards for Processing Aeronautical Data* and DO-394, *Considerations for Aeronautical Data Alteration*.

June 22, 2023

These documents support future air traffic management (ATM) requirements as developed in SESAR and NextGen, and make the adjustments required as a result of the experience in implementing the standards.

The committee also completed the updates to DO-201B, "User Requirements for Navigation Data," published in 2018.

DELIVERABLES:

Product	Description	FRAC Completion Due Date*	Change
DO-200C	Standards for Processing Aeronautical Data	March 2024	September 2023
DO-201C	User Requirements for Navigation Data	May 2025	December 2023

*Note: Final Review and Comment (FRAC) Completion Due Date refers to the date that the committee plenary approves the document after completing the FRAC Process. SCs should submit the final document at least 45 days before the PMC meeting where it will be considered for approval.

SCOPE:

The Special Committee will develop and maintain documents on user requirements and standards for aeronautical data to meet the needs of designers and manufacturers of airborne and ground systems; airport, heliport, and airspace managers and services providers; and the users of these systems for worldwide operations.

1. Update the document "Standards for Processing Aeronautical Data" (DO-200B)
 - a. Data Process Assurance Level (DPAL) granularity
 - b. Changes associated with data alteration considerations
 - c. Address domain tailoring related to DO-330 (tool qualification)
 - d. Add requirements numbering
 - e. Consider SAE G-34/EUROCAE WG-114 AI in Aviation needs
 - f. Other minor updates as needed
2. Update the document "User Requirements for Navigation Data" (DO-201B)
 - a. Align with ARINC 424 updates
 - b. Data Driven Charting (DDC)
 - c. European Commission (EC) Performance Based Navigation (PBN) rule
 - d. DPAL granularity
 - e. Commercial space ports

- f. Align with PANS-AIM updates
 - g. Other minor updates as needed
3. Ensure consistency with regard to the manner in which data quality requirements are defined.
 4. Ensure consistency with regard to the manner in which terminology is used.
 5. Modify the Standards to cover data requirements that might be used to support new functionality for the end user.

ENVISIONED USE OF DELIVERABLE(S)

The revised standards will form the basis for:

1. Data requirements applicable to industry providers of navigation data as recommended in ICAO SARPS.
2. Aeronautical data types subject to the Processes outlined in DO-200B.
3. Considerations for use of data alteration by data providers.
4. Providing updates to installation guidance for new and existing avionics.

SPECIFIC GUIDANCE:

- *ICC Coordination* – Comply with Integration and Coordination Committee (ICC) guidance and recommendations for inter-SC coordination through the use of Inter-SC Requirements Agreements (ISRAs). The committee will utilize ISRAs to coordinate requirement development with SC-216, SC-227, and SC-228 as required.
- *EUROCAE Coordination* – SC-217 and WG-44 function as a joint committee.
- *Additional Coordination* – Coordinate directly with existing organizations, such as:
 - ICAO
 - ISO
 - SAE G-34 / EUROCAE WG-114
 - RTCA SC-186, SC-206, SC-213, SC-214, SC-216, SC-223, SC-227 and SC-228 and their joint EUROCAE counterparts, where applicable.
 - SAE-ITC AEEC, for example Navigation Database (NDB) and Aeronautical Databases (ADB)
 - Ensure consistency with NextGen and SESAR initiatives

Initial Documentation

Documents	Intended Use
DO-200B	Basis for DO-200C
DO-201B	Basis for DO-201C

TERMINATION:

When the scope of this Terms of Reference is complete, the committee will recommend to the PMC that the committee Sunset, go into Active Monitoring Mode, or spend a period of time in Hiatus. Any change/extension of the committee’s work program requires prior PMC approval.