



International Civil Aviation Organization

Ninth Meeting of the MIDANPIRG AIM Sub-Group (AIM SG/9)

(Virtual Meeting, 20 - 21 September 2022)

Agenda Item 3: Global and Regional Developments

AERONAUTICAL INFORMATION QUALITY AND CONSISTENCY

(Presented by AIM Forum go-team)

SUMMARY

Airspace users rely on State published aeronautical information regarding aerodrome infrastructure, facilities and services for strategic, pre-tactical and tactical planning, safety and security evaluation for flight operations.

Access to, consistent, timely, accurate, high quality, fit for purpose aeronautical information is critical to enabling safe and efficient flight operations.

The interpretation and application of ICAO SARPS pertaining to NOTAM differs across the MID region impacting aeronautical data quality resulting in data inconsistencies.

The European region implementation of the Eurocontrol Operating Procedures for AIS Dynamic Data (OPADD) is an example of industry best practice that provides for common interpretation and harmonised implementation of procedures resulting in consistent high quality aeronautical information.

Action by the meeting is at paragraph 3.

REFERENCES

- ICAO Annex 15
- ICAO Doc 8126
- Eurocontrol Operating Procedures for AIS Dynamic Data (OPADD)

1. INTRODUCTION

1.1 Access to, timely, accurate, high quality, fit for purpose aeronautical information is critical to enabling safe and efficient flight operations

1.2 Airspace users rely on State published aeronautical information regarding aerodrome infrastructure, facilities and services for strategic, pre-tactical and tactical planning, safety and security evaluation for flight operations

2. DISCUSSION

2.1 Annex 15 to the Chicago Convention, Chapter 2, obligates States, and by extension the organs of the State such as Air Navigation, Aerodrome, Search and Rescue and Metrological Service Providers, to “Ensure that the aeronautical data and aeronautical information provided are of required quality”

2.2 ICAO Document 8126, Aeronautical Information Management Manuel, states in paragraph 4.1.1 “All parties originating aeronautical data and aeronautical information are responsible for providing the aeronautical data with the defined data quality requirements to meet the user needs”

2.3 Data quality is defined in Annex 15 as a “degree or level of confidence that the data provided meet the requirements of the data user in terms of accuracy, resolution, integrity (or equivalent assurance level), traceability, timeliness, completeness, and format. Additional key quality components, from an airspace user perspective, are reliability, relevance, consistency and predictability.

2.4 An analysis of the published NOTAM from across the MID region has shown many examples of the same or similar conditions and subjects being published in several different ways resulting in inconsistency impacting on the quality of aeronautical information.

2.5 Some examples of the same or similar subjects/conditions published by various regional NOTAM offices are below. Note the XXXX and *italic* text has been used to deidentify the NOTAM.

Q) XXXX/QXXXX/IV/NBO/E/000/999/3006N03124E001
 A) XXXX B) 2209040700 C) 2209041730
 D) SEP 04 0700-0900 1530-1730
 E) EMERG EXER (*EXERCISE NAME* 57) WILL TAKE PLACE AT PSN 300641N0312450E

Q) XXXX/QWMLW/IV/BO /W /000/050/2739N05002E025
 A) XXXX B) 2207300630 C) 2211240845
 D) DLY BTN 0630-0845
 E) GUN FIRING WILL TAKE PLACE WI THE FLW COORDINATES:
 275000N 0493600E
 272600N 0495100E
 272700N 0502700E
 273700N 0502200E
 275100N 0495200E

Q) XXXX/QRDCA/IV/BO /W /000/040/
 A) XXXX B) 2207310630 C) 2211120845
 D) DLY BTN 0630-0845
 E) DANGER AREA XXD46 ACT
 THE ABOVE RECEIVED FROM *ANOTHER* FIR
 F) SFC G) 4000FT AMSL

Q) XXXX/QWULW/IV/BO/W/000/005/2522N05211E036
 A) XXXX B) 2209042110 C) 2210052055
 D) SEP 04 2110-2359, SEP 05-OCT 04 0000-2055 2110-2359, OCT 05 0000-2055
 E) REMOTELY PILOTED AIRCRAFT SYSTEM (RPAS) ACT WILL TAKE PLACE WI AN

- 3 -

AREA BOUNDED BY FLW COORDS (OFFSHORE SOUTH-EAST):
 251005.00N 0523639.32E - 245447.81N 0514515.54E -
 253426.74N 0513422.95E - 254034.84N 0522207.56E -
 252722.11N 0524938.29E - 251005.00N 0523639.32E.
 F) SFC G) 492FT AGL

Q) XXXX/QWELW/IV/BO/W/000/165/2723N03400E005
 A) XXXX B) 2209030700 C) 2209272000
 D) SEP 03 06 10 13 17 20 24 27 0700-1300 1400-2000
 E) MIL EXER WI AREA 272409N0335500E-271830N0340106E-272106N0340424E-
 272700N0335812E-272409N0335500E, AWY R650 POINTA/POINTB AFFECTED.
 F) SFC G) FL165

Q) XXXX/QAFXX/IV/BO/E/000/999/2531N05218E096
 A) XXXX B) 2209080000 C) PERM
 E) REFERENCE TO PERM AIRAC AIP AMDT 04/2022 XXXX EAIP WEF 08 SEP
 2022.
 IMPLEMENTATION TIME FOR THE FLW ITEMS CHANGED TO 0900UTC.

- HOLDING APPROACH AND DEPARTURE PROCEDURES AMENDED.
- RADIO COMMUNICATION FAILURE PROCEDURE AMENDED.
- PROCEDURES FOR THE SUBMISSION OF A FLIGHT PLAN AMENDED.
- REQUIRED ROUTING AMENDED.
- XXXX TMA SECTOR CALLSIGNS AND FREQUENCIES AMENDED.
- ATS ROUTE L721 AMENDED.
- EN-ROUTE HOLDING AMENDED.
- NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS AMENDED.
- VFR REPORTING POINTS IN AERONAUTICAL CHART AMENDED.

TRIGGER NOTAM

Q) OIIX/QAFTT/IV/BO/E/000/999/
 A) OIIX B) 2209010000 C) 2209142359
 E) NEW AIP SUP 19/22 REGARDING GEN 1.7
 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES
 AVBL AT OUR WEBSITE ([HTTPS://AIS.XXXXXXX.XX/81](https://ais.xxxxxxx.xx/81)).

2.6 Multiple interpretations and application of the ICAO Standards and Recommended Practices (SARPS) challenges several of the quality attributes particularly accuracy, format, resolution, traceability, reliability, consistency and predictability which results in poor quality aeronautical data.

2.7 This challenge is not unique to the MID region and most certainly is not new.

2.8 Eurocontrol recognised this challenge and in January 2000 published the first edition of the Operating Procedures for AIS Dynamic Data (OPADD) which was commonly implemented across Europe and other regions.

2.9 In the years following, the OPADD has had several updates and has been accepted as an industry best practice being applied by many States beyond Europe supporting the production of high quality, consistent aeronautical information.

2.10 The latest version of the OPADD can be downloaded from the Eurocontrol website ([EUROCONTROL Guidelines for Operating Procedures for AIS Dynamic Data \(OPADD\) | EUROCONTROL](https://ais.eurocontrol.int/81)).

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the content of this working paper; and
- b) encourage States to use *EUROCONTROL Guidelines for Operating Procedures for AIS Dynamic Data (OPADD)*, as complementary to, *ICAO docs*, to ensure concise and consistent NOTAM.

- END -