



Network Manager
nominated by
the European Commission



Operating Procedures for Dynamic Data (OPADD)

Workshop for the development of Operational skills for the transition
from AIS to AIM for Civil Aviation Authorities (CAA) and Air Navigation
Service Providers

2 – 6 July 2018

Nairobi

Gaston Liegeois

Network Management Directorate

gaston.liegeois@eurocontrol.int

OPADD

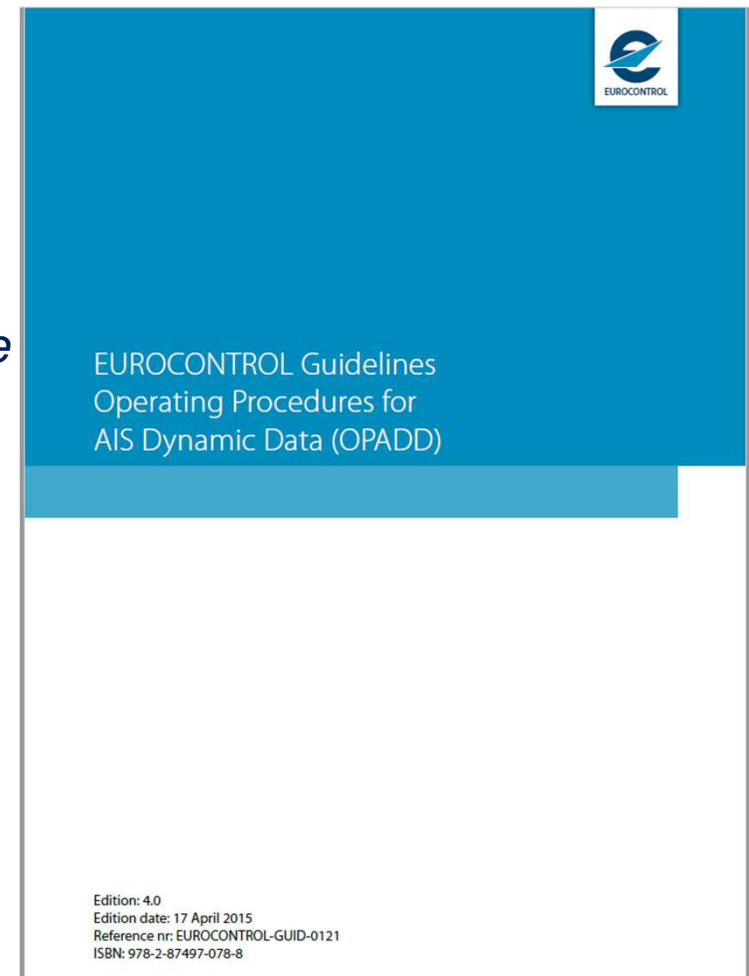
Objectives / purposes

- EUROCONTROL initiative
- Guidelines for the handling of dynamic data (NOTAM, SNOWTAM, etc.)
 - *NOTAM: Defined as a notice containing information concerning the establishment, condition or change in any aeronautical facility, service, procedure or hazard.*
 - *Notify information of:*
 - *Temporary nature and of short duration, or*
 - *Temporary changes of long duration are made at short notice, or*
 - *When operationally significant information is permanently changed*
- Complement to ICAO Annex 15 and service manual Doc 8126
- Enhance the harmonisation of AIS working practices
- Allow increase of automation
- Support operational improvements to the overall ATM system

OPADD

Objectives / purposes

- Content:
 - *NOTAM Creation*
 - *NOTAM Processing*
 - *Database completeness and coherence messages*
 - *Procedure for SNOWTAM, ASHTAM*
 - *Specific European agreements*
 - *Guidelines for the creation of PIB*



OPADD

Objectives / purposes

- Provide enhanced explanations to better take into account the main deficiencies reported by users on PIB content
- Upon NOTAM creation and PIB production, awareness should be given to issues that have an impact on PIB readability and understanding:
 - Reduction of irrelevant NOTAM:
 - Publish NOTAM without allocating proper qualifiers
 - Publish NOTAM rather taking the default values given without taking into account the actual situation as stated in Item E).
 - Publish NOTAM with Information NOT subject to NOTAM creation
 - Use of abbreviations in NOTAM
 - NOTAM are difficult to read and to understand:
 - Users' preference for a simpler NOTAM text in item E) and with a harmonised structure.
 - Text not clear without reference to the AIP; essential information missing (e.g. which specific procedure is affected)

OPADD

Basic rules for NOTAM creation

- ICAO NOTAM format shall be strictly adhered to the allowed NOTAM types:
 - NOTAMN -- *New*
 - NOTAMR -- *Replace*
 - NOTAMC -- *Cancel*
- NOTAM intended for international distribution shall include English text for those parts expressed in plain language.
- A NOTAM shall deal only with one subject and one condition of that subject.
- Erroneous NOTAM shall be replaced; or they may be cancelled and a new NOTAM issued. No 'correct version' NOTAM shall be issued.
- Renumbering of existing NOTAM (containing identical information, but with a new number) is not allowed.

OPADD

Basic rules for NOTAM creation

- NOTAM shall be qualified according to the NOTAM Selection Criteria (NSC), as published in ICAO Doc 8126
- All published times shall be in UTC
- If Item C) contains 'EST', the NOTAM requires the later issue of a NOTAMR or NOTAMC.
- NOTAM should not remain in force for more than 3 months
 - If the circumstances to be notified are expected to exceed 3 months, an AIP Supplement must be published.
 - When exceeding the 3 month period, a new or replacement NOTAM may be issued but only for a further period of a maximum of one to two months.
- Item C) shall contain 'PERM' solely for NOTAM information that will be incorporated in the AIP
 - Permanent information should be incorporated in the AIP within 3 months after NOTAM publication.
 - These NOTAM shall be cancelled when the AIP is issued

OPADD

Basic rules for NOTAM creation

- NOTAMR and NOTAMC:
 - Are issued in the same series as the NOTAM to be replaced or cancelled
 - Respectively replace and cancel only one NOTAMN or NOTAMR
 - Deal with precisely the same subject as the NOTAM to be replaced or cancelled
 - The 2nd and 3rd letters of the NOTAM Code in Item Q) shall be the same as those in the NOTAM to be replaced or cancelled.
 - Have the same Item A) as the NOTAM to be replaced or cancelled
 - The date-time group in Item B) of a NOTAMR or NOTAMC shall be the actual date and time of creation of that NOTAMR or NOTAMC
 - NOTAMR and NOTAMC shall take effect immediately and no future start of coming into force is permitted
- NOTAMR:
 - NOTAMR are Replacement NOTAM
 - NOTAM which are to become invalid before their given End of Validity, or did not have a defined End of Validity (i.e. have 'EST' or 'PERM' in Item C) may be replaced, provided they are 'in force' at the time of replacement

OPADD

Basic rules for NOTAM creation

- NOTAMC:
 - NOTAMC are Cancellation NOTAM
 - NOTAM which are to become invalid before their given End of Validity, or did not have a defined End of Validity (i.e. have 'EST' or 'PERM' in Item C) may be cancelled at any time.
 - NOTAMC shall be published whenever NOTAM are incorporated in an AIP AMDT
 - Qualifier 'NOTAM Code' shall be as follows:
 - Subject: 2nd and 3rd letters shall be identical to the original NOTAM
 - Condition: permitted 4th and 5th letters are as follows:
 - Q23AK = RESUMED NORMAL OPS
 - Q23AL = OPERATIVE (or RE-OPERATIVE) SUBJECT PREVIOUS PUBLISHED LIMITATIONS /CONDITION
 - Q23AO = OPERATIONAL
 - Q23CC = COMPLETED
 - Q23CN = CANCELLED
 - Q23HV = WORK COMPLETED
 - Q23XX = OTHER

OPADD

Necessary data items for each NOTAM type and checklist

	NOTAMN	NOTAMR	NOTAMC	Checklist
Series/Nr/Type	Yes	Yes	Yes	Yes
Ref to Series/Nr	No	Yes	Yes	Yes
FIR	Yes	Yes	Yes	Yes
NOTAM Code	Yes	Yes	Yes	Yes
'Traffic'	Yes	Yes	Yes	Yes
'Purpose'	Yes	Yes	Yes	Yes
'Scope'	Yes	Yes	Yes	Yes
Lower/Upper	Yes	Yes	Yes	Yes
Lat/Long/Radius	Yes	Yes	Yes	Yes
Item A)	Yes	Yes	Yes	Yes
Item B)	Yes	Yes	Yes	Yes
Item C)	Yes	Yes	No	Yes
Item D)	Optional	Optional	No	No
Item E)	Yes	Yes	Yes	Yes
Items F) & G)	Optional	Optional	No	No

Yes = Entry in Item is compulsory.
 No = Entry in Item is not allowed.
 Optional = Entry depending on the NOTAM contents.

Review AFI ESAF NOTAM

- Top error list
 - Qline qcode
 - Qline center point-radius
 - Item E Translation
 - Item D
 - Checklist
 - Item E completeness
 - NOTAM C (rules Qline)
 - NOTAM R (rules Qline)
 - Inconsistency between Item F and G and Qline

OPADD

NOTAM processing

- All States are not adhering completely to ICAO standards and Recommended Practices and guidelines as OPADD
- As a result, differences and discrepancies exist internationally in published NOTAM
- *Problems:*
 - Potential risk of inconsistent, inaccurate or even false PIB output
- *Solution:*
 - Processing of all received NOTAM assessing their conformity to ICAO format and to the procedures laid in OPADD (Chapter 2) prior storage in automated NOTAM processing system
 - As a result, provision of correct and harmonised PIB output for the benefit of the end user

OPADD

Database completeness and coherence messages

- The application of 'query messages' is required to ensure the database completeness and coherence
- Query requests and replies are identified by means of 3-letter identifiers
 - RQN: Request for NOTAM
 - RQO: Request for 'original version' NOTAM
 - RQL: Request for an intermediate Checklist (list of valid NOTAM)
 - RQR: Reply to above requests
- Request shall include the 4-letter indicator of the Publishing NOF
- E.g.:
 - RQN EPWW A1253/14 A1280/14
 - RQN LCNC A0199/14-A0210/14
 - RQL EGGN B G
- A single 'RQN' or 'RQO' or 'RQL' containing multiple requests will result in multiple reply (RQR) messages

OPADD

Additional topics

- Content:
 - *NOTAM Creation*
 - *NOTAM Processing*
 - *Database completeness and coherence messages*
 - *Procedure for SNOWTAM, ASHTAM*
 - *Specific European agreements*
 - *Guidelines for the creation of PIB*

