Network Manager
nominated by
the European Commission

EUROCONTROL

Aeronautical Information Service (AIS) Data Process

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

28 May – 1 June 2018

Dakar

Gaston Liegeois
Directorate Network Manager
gaston.liegeois@eurocontrol.int

AIS Data Process

Fundamental tasks for which AIS is responsible

- Production, provision and exchange of aeronautical data, so as to ensure the flow of Information necessary for the safety, regularity and efficiency of air navigation

- In order to meet these requirements, the AIS must be capable of providing the Information necessary, at the time required, in the form required and ensure its quality.

AIS Data Process

EUROCONTROL initiative

- Establishment of a set of harmonised guidelines agreed upon by European States representing High-level description of the Aeronautical Information Service Data Process (ADP) for:
  - Receipt, storage and publications of AIS Static Data

- The processes define what actions shall be taken for the production of and change to AIS Data, and which documents, such as AIP Amendments, AIC, NOTAM etc., shall be generated

AIS Data Process

Objectives

The AIS Data Process (ADP):

- Captures the process flow within an AIS for operations covering the provision, receipt, evaluation and approval of data through to its analysis and publication as aeronautical information

- Provides a common understanding and processes resolving differences of interpretation of the Standards and Recommended Practices (SARPs) in the provision of the Integrated Aeronautical Information Package (ICAO Annex 15)

- Ensure that **all** data received is analysed in a consistent manner and that this is recorded on a Log Sheet for later reference

AIS Data Process

Operating procedure overview

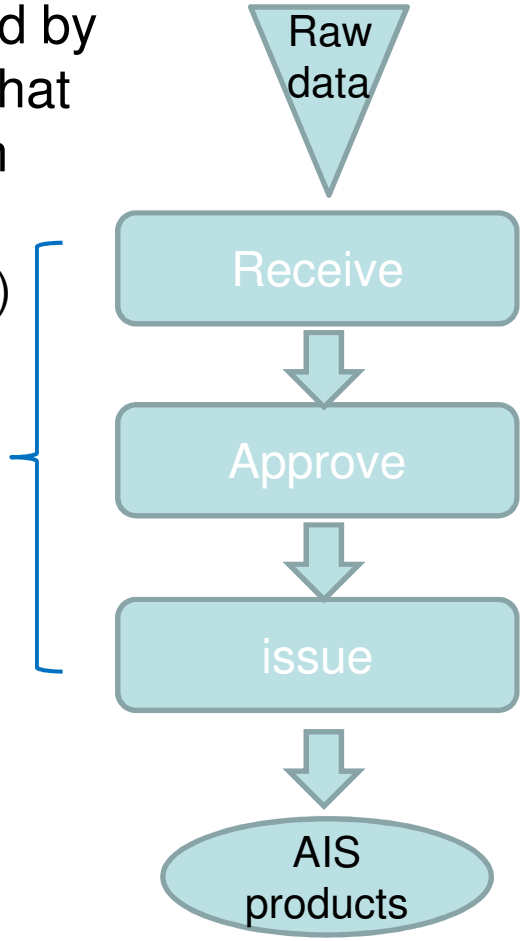
- ADP is a series of diagrams and explanatory text which, at a very high-level, to guide the user through the process
- ADP is supported by a set of operating procedures for both static and dynamic data which elaborate the operations necessary at every process step
  - Static Data Procedures (SDP):
    - SDP/0 through SDP/8 - Initial processing for data publication
    - SDP/9 through SDP/14 – Specific procedures
    - SDP/15 through SDP/19 – General procedures
    - → Applicable to all AIS data (static and dynamic)
    - SDP/G → Guidelines for the implementation of the procedures
    - SDP/C → Concept, index, glossary
  - Where necessary, reference is made to the Operating Procedures for AIS Dynamic Data (OPADD)

AIS Data Process

AIS Process

- ICAO requirements identify products to be provided by AIS (AIP, Sup, AIC, etc.) and its content knowing that the vast majority of information is not sourced from within the AIS
  - Input: Raw data (untreated data received within AIS)
  - Output: AIS products

- *But*
  - what 'happens in-between' has to be described
  - The centre part of the process must ensure that the Information provided is 'adequate, of required quality and timely'

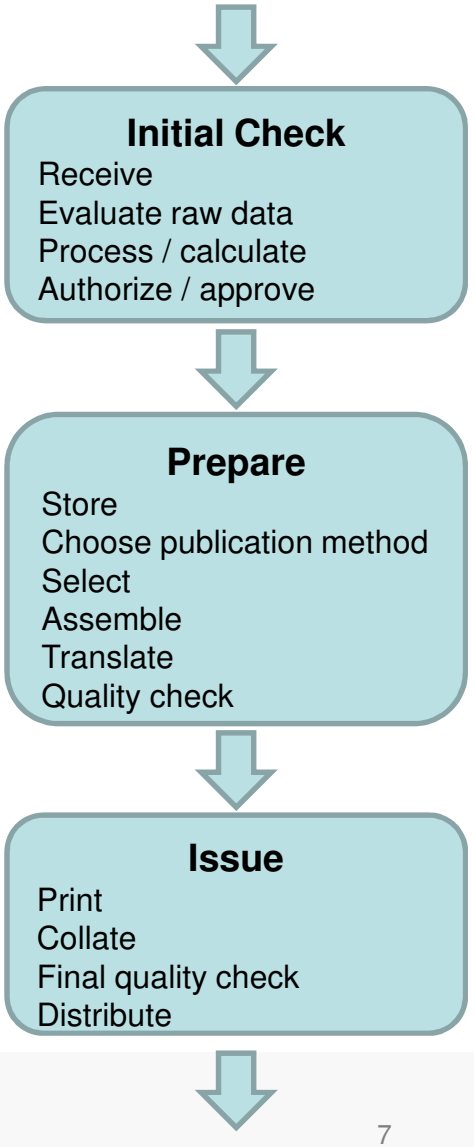


Network Manager
nominated by
the European Commission

AIS Data Process

Tasks and activities that are required to complete the AIS process

- The **initial check phase** is used to receive incoming Raw Data and to perform an initial assessment on them. The steps taken will ensure that the data are correct, provided by the correct, authorised, source and that they may be approved for use.
- During the **prepare phase**, the Approved Data is stored and becomes Information. The method by which the Information will be published is chosen, and the document is produced
- The **issue phase** allows for the printing of documents for collation, checking and distribution to the customers of the AIS.



AIS Data Process

List of static data procedures (SDP)

Early procedures

- SDP-1: Receipt of Raw Data at the AIS (Receiver)
- SDP-2: Initial Assessment of Raw Data
- SDP-3: Evaluation of Raw Data
- SDP-4: Approval of Raw Data
- SDP-5: Storage of Approved Data
- SDP-6: Receipt of Newly Registered Information
- SDP-7: Assessment of Information for Publication
- SDP-8: Assessment of Information for Notification by AIRAC

AIS Data Process

List of static data procedures (SDP)

Specific procedures

- SDP-9: Preparation of an AIP Amendment
- SDP-10: Preparation of an AIP Supplement
- SDP-11: Assessment of Extensive Text and Graphics
- SDP-12: Preparation of an AIC
- SDP-13: The Issue of Information
- SDP-14: Preparation of a NOTAM Summary

AIS Data Process

List of static data procedures (SDP)

General procedures

- SDP-15: Maintenance of AIS Static Data
- SDP-16: Use of a Log Sheet
- SDP-17: Performing a quality check
- SDP-18: Undertaking translation
- SDP-19: Contacting appropriate authorities

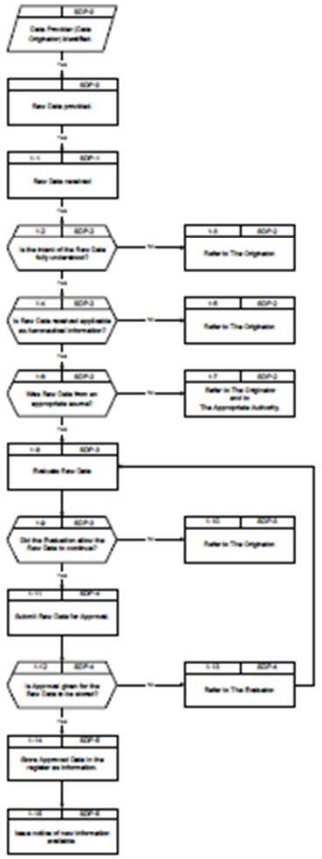
Other procedures

- SDP-C: Concept, Index and Glossary
- SDP-G: Guidelines for the Implementation of the SDPs

AIS Data Process

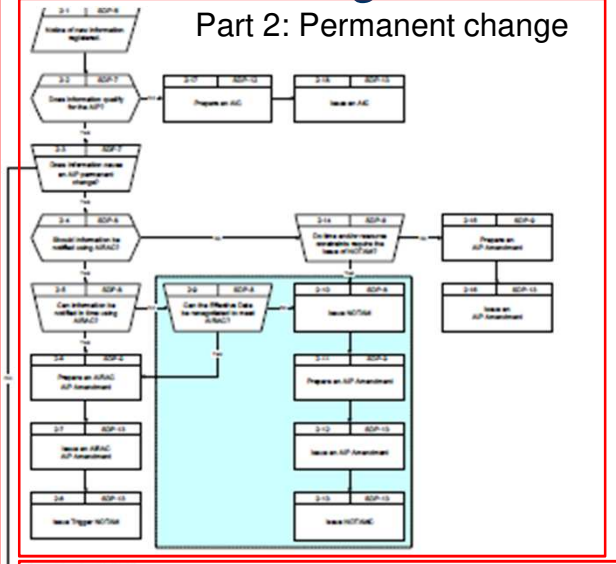
ADP Data Process – overall diagram

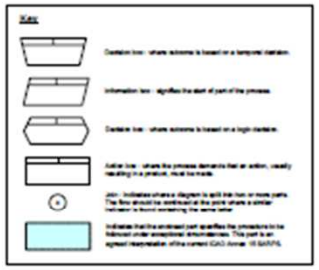
Part 1: initial process

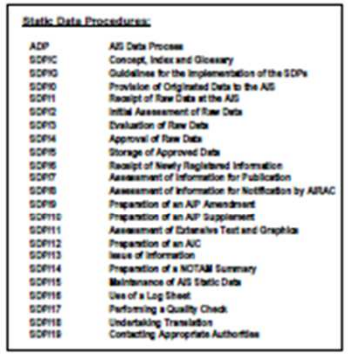


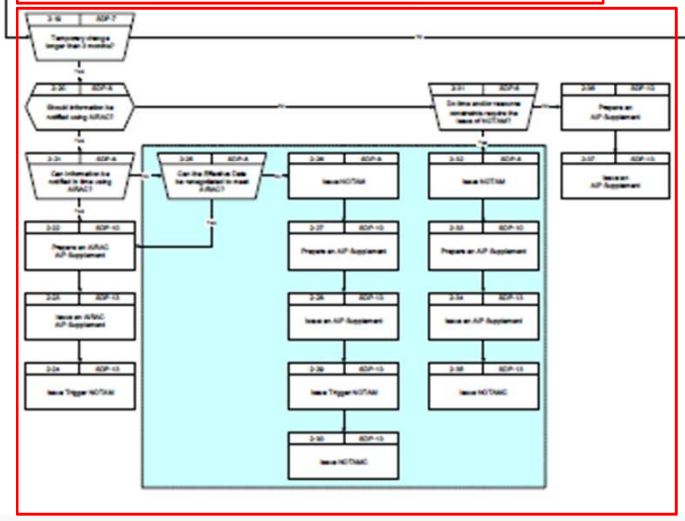
From receipt of raw data until acceptance & registration as AI

Part 2: Permanent change

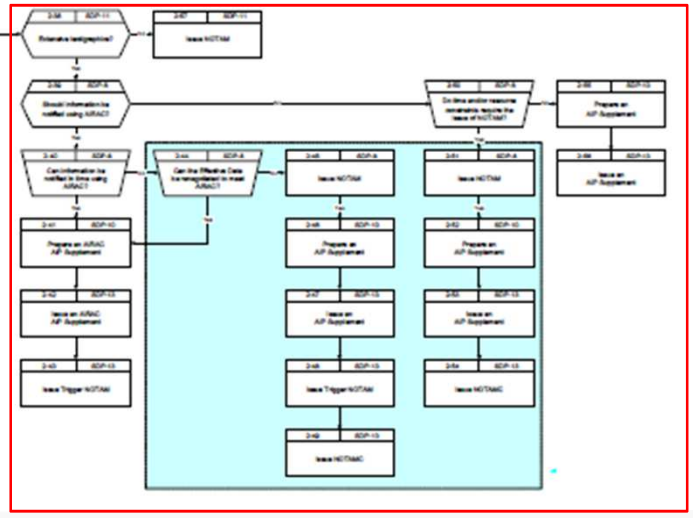








Part 3: Temporary change > 3 months



Part 4: Temporary change < 3 months

AIS Data Process

Links

- AIS Data Process (ADP) - describes **WHAT** actions are carried out to produce the Annex 15 Integrated Aeronautical Information Package
- AIS Data Proces Poster - overview of the mapping of the Static Data Procedures to the ADP
- http://www.eurocontrol.int/articles/quality-phase-1-p-17 - eADP/eSDP