P3-EUR OPMET Handbook Procedures

ICAO Regional OPMET Centre (ROC) Workshop
Jeddah, Saudi Arabia, 31. August-1. September 2014

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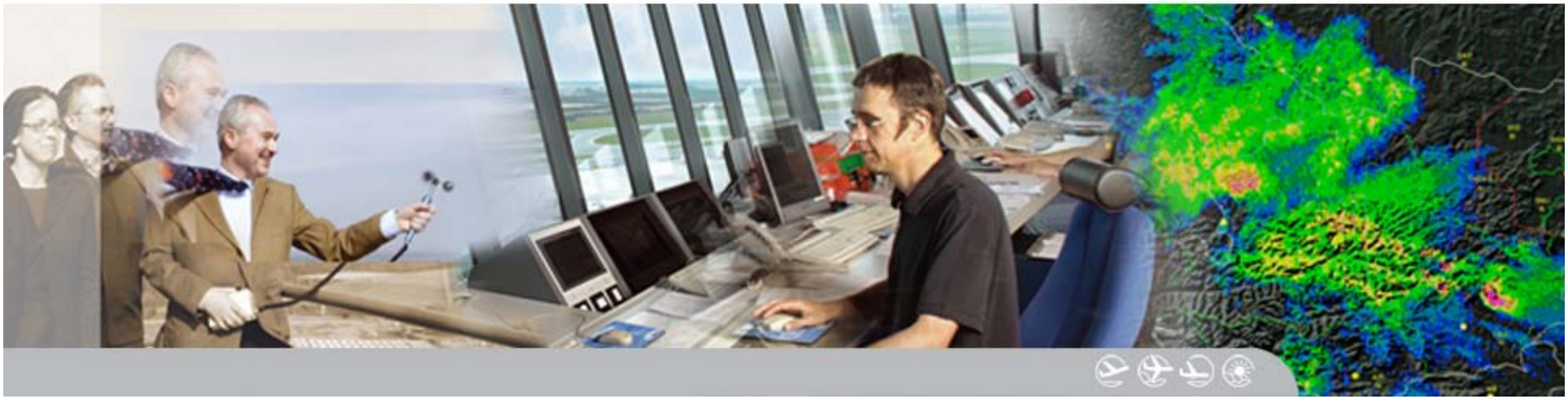


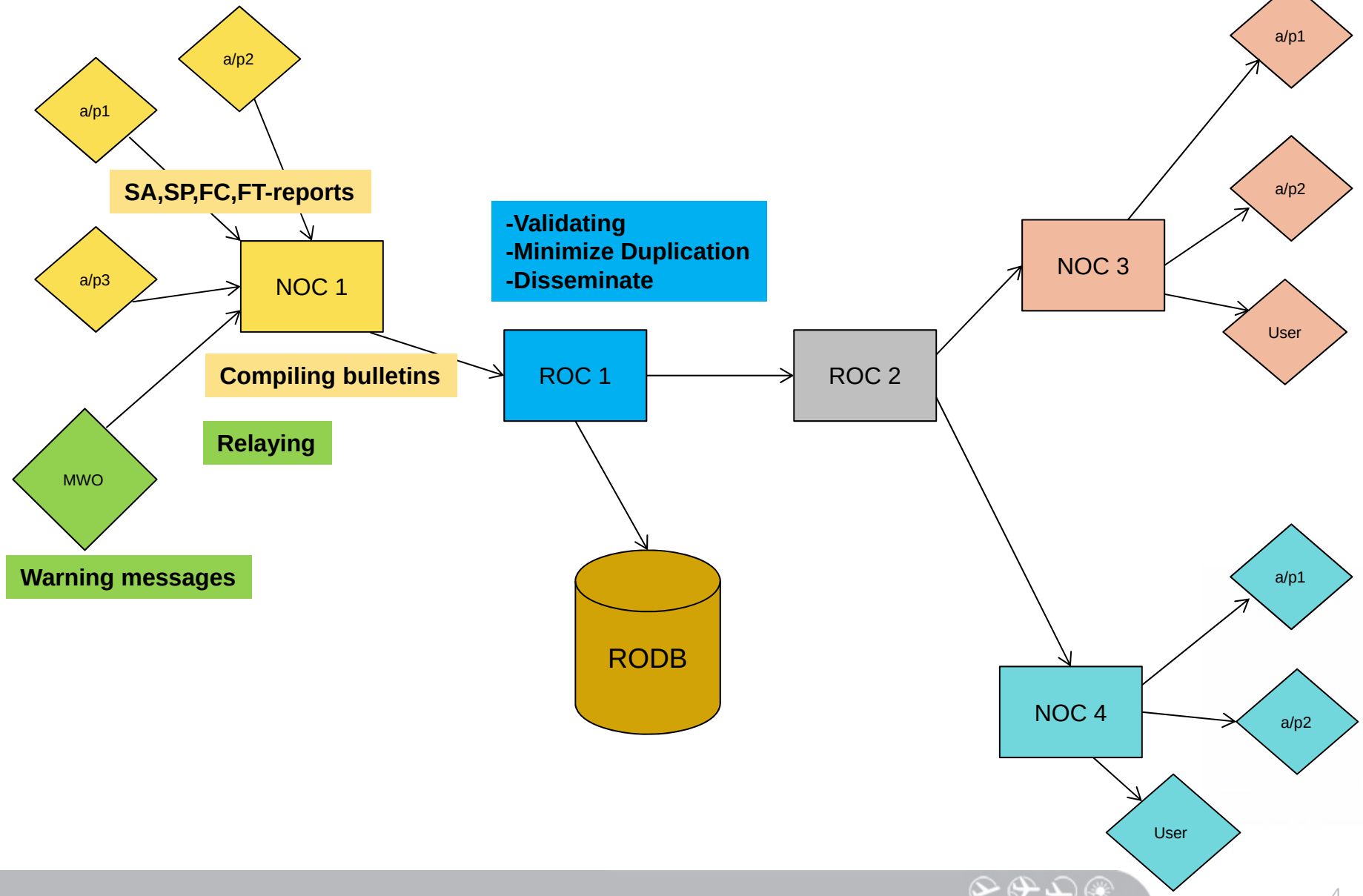
Overview

- Content and Purpose of the Handbook
  - Structure
  - Responsibilities
  - Details on and exchange of OPMET data types
  - Message validation
- Specifications and Procedures
  - RODB ICD (Interface Control Document)
  - Update Procedure
  - Monitoring Procedure
  - Monitoring Tool Specification
  - Distribution Determination of OPMET Data
  - Problem Handling
  - Performance Indices

Purpose of the Handbook

- Give clear guidlines for all OPMET data users on
  - structure of the RODEX-schema
  - exchanged products
  - ICAO & WMO documents to be applied
  - the DMG (managing the RODEX)
- Describing responsibilities of
  - Originating Station
  - NOC (National OPMET Centre)
  - ROC (Regional OPMET Centre)
  - RODB (Regional OPMET Databank)
  - IROG (Inter-regional OPMET Gateway
  - WMO-Gateway
- Describing applied procedures

RODEX Structure and Responsibilities (1)



RODEX Structure and Responsibilities (2)

- IROG (Interregional OPMET Gateway)
  - In principle same tasks as a ROC
  - AoR (Area of Responsibility) is other ICAO-region
- WMO-Gateway
  - In EUR some data is only available via GTS although only AFS should be used
  - If message length more than 2.100 characters, bulletins have to be recompiled and fed into AFS

OPMET-Data Types

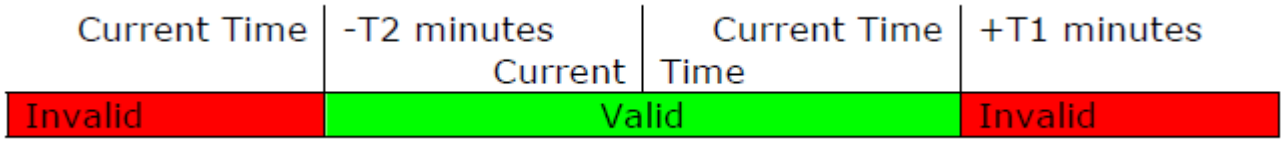
- Exchanged data types are:
  - Routine OPMET Data (*as defined in FASID Table MET 2-A*)
    - METAR – SA
    - SPECI – SP
    - TAF – FC, FT
  - Non-Routine OPMET Data
    - SIGMET – WS, WV, WC
    - AIRMET – WA
    - GAMET – FA
    - Advisories – FV, FK
    - AIREP & SPECIAL AIREP - UA
    - Administrativ Messages – NO

Message Validation & Correction(1)

- Basic Principle
  - It should be noted that operators are not authorised to modify actual meteorological data, e.g. visibility, QNHs etc., but only items such as bulletin headers, location indicators and observation times.
- Validated Message Parts
  - WMO Header
  - Location Indicator (including prefix)
  - Report Time (Zulu-Time)
  - Validity Group (TAF & SIGMET)
  - Keyword SIGMET/AIRMET & VALID
  - Sequence Number (Warnings)
  - Valid CCCC for MWO followed by „-“
  - For Warnings: 2nd Line after header starts with valid CCCC

Message Validation & Correction (2)

- Several Timers are defined to identify
  - too late/ too early messages or reports
  - errors in validity periods



Type	T1	T2
SA	15	90
FC	60	240
FT	60	420
WS	360	720
WV	720	1440

Message Validation & Correction (3)

- Chapter 12.3 contains guidlines on correcting errors in messages diveded in sections for
  - Bulletin Header
  - METAR
  - TAF
  - SIGMET/AIRMET

Specifications & Procedures (1)

- RODB ICD (Appendix A)
  - Supplementary document, which provides users with guidance on the interrogation procedures and the content of the RODBs
  - LOWM responsible RODB for MID-region
  - It is suggested that MID-region is not implementing its own RODB as long as no guidelines in regard to handling of IWXXM are available
  - List of RQM-messages received from MID-region.
- EUR OPMET Data Update Procedure (Appendix B)
  - update procedure for OPMET data (METNO issuance) as well as on the procedure to be used for requesting new (not available) data
  - Similar procedure could be implemented in MID-region

Specifications & Procedures (2)

- EUR OPMET Data Monitoring Procedure (Appendix C)
  - Similar procedure needs to be applied in MID-region to identify deficiencies
  - MID-region partly participates in EUR SIGMET-Monitoring
- EUR OPMET Data Monitoring Tool Specification (Appendix D)
  - data validation requirements for OPMET data monitoring tools used by OPMET Centres participating to the DMG monitoring exercises
  - Specification could be adopted by MID-region
- Distribution Determination for OPMET Data (Appendix E)
  - gives information on the distribution criteria and responsibilities within the EUR-Region
  - Could be implemented by MID-region

Specifications & Procedures (3)

- Calculation of the Performance Indices (Appendix F)
  - gives information about how the different indices are calculated and how the results can be interpreted
  - was requested by METG. No need for MID-region to implement?

Link to Document

The ICAO EUR DOC 018 (EUR OPMET Data Management Handbook) is available at the ICAO-Paris homepage:

http://www.paris.icao.int/documents_open/subcategory.php?id=48

Another interesting document that could be adopted by MID-region is ICAO EUR DOC 014 (EUR SIGMET & AIRMET Guide).


Thank you for your attention!
QUESTIONS?
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