



WG-MIE Developments

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ROC/IWXXM Implementation

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MIE developments (1/7)

- **Work Streams based on METP job cards**
 - WS1: IWXXM Requirements
 - WS2: MET-SWIM Plan
 - WS3: IWXXM Documentation
 - WS4: Support & Coordination



MIE developments (2/7)

- **12 activities defined in Workstream 1**
 - 1) Information Exchange Security
 - 2) TT-AvXML Liaison (WMO)
 - 3) Inter-regional Coordination**
 - 4) HWIS Requirements
 - 5) IWXXM for Low-level SIGWX**
 - 6) Geo-referencing Information (closed →1,10)
 - 7) IWXXM Extensions**



MIE developments (3/7)

- 8) AMHS SWIM Gateway
- 9) **IWXXM for MET parameters and to better support SWIM**
- 10) Harmonization of Exchange Models
- 11) Data Formats
- 12) IWXXM Exchange Testing



MIE developments (4/7)

- Activity 1.3 Inter-regional Coordination

- **Enable users to track FTBP capability**

- The Aeronautical Traffic Services (ATS) Messaging Management Centre (AMC) is responsible (as discharged by ICAO) for the administration of global AMHS addressing
- The AMC Operator has been coordinating with SITA and State COM Centres regarding the cessation of their Aeronautical Fixed Telecommunication Network (AFTN) circuits and replacement through AMHS Gateways
- AMC Application can demonstrate COM Centre support for FTBP built into the 'Path Function'

- **METNO procedure**

- Proposal to extend to all regions a procedure based on EUR a APC ones
- See separate presentation PPT



MIE developments (5/7)

- Activity 1.5 **IWXXM for Low-level SIGWX**
- *Some schema proposals have been made for WAFC SIGWX data*
- *Proposal to use the schema by adding new elements/parameters*
- *New phase by starting to define a more generic schema (! in development !)*
- The iwxxm:MetereologicalFeature holds a single meteorological phenomenon with specific descriptions of (1) the originator, (2) the phenomenon, (3) the phenomenon's geometry and (4) the phenomenon's property
- Selected iwxxm:MetereologicalFeature can be grouped under a iwxxm:MetereologicalFeatureCollection for the representation of more complex meteorological situation



MIE developments (6/7)

- Activity 1.7 **IWXXM extensions**
- *Useful to collect all national extensions in a Global repository (! development !)*
- Goal to share the following basic information via the proposed repository:
 - URL to the (concerned) State's schema extension definitions;
 - High level description of the extension; and
 - Contact details of the national focal point (for the extension).
- *Longer term, analyzing the extension to see if a common schema could be proposed (optional elements)*



MIE developments (7/7)

- Activity 1.9 **IWXXM for MET Parameters and to better support SWIM**
- *Discuss the use of WxObjects for representation of “individual” parameters (example RVR) (! development !) (see previous elements on activity 1,5)*
- *Discuss to see how to represent with WxObjects “other text reports” in Annex 3 like Local reports (MET report and Special reports)*
- *Collect existing use cases and identify future use cases, suitable for the demonstration of the benefits of introducing new data, including high fidelity data, to IWXXM*
- *Metadata requirements in describing MET information (for use in SWIM Service descriptions)*



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