



TWENTY-SIXTH MEETING OF THE AFRICAN - INDIAN OCEAN REGIONAL PLANNING AND IMPLEMENTATION GROUP (APIRG26)



Cotonou, Benin, 6 – 10 November 2023



WP/03B4

Status of AMHS implementation at ASECNA

Agenda item 03: Implementation of air navigation objectives, targets and indicators, including priorities set out in the regional air navigation plan

Presented by : **ASECNA**

1. INTRODUCTION



1- Exchange of information based on IWXXM has become a standard since November 2020 (cf. amendment 78 to ICAO Annex 3)



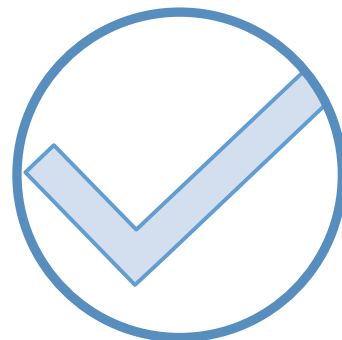
2- States adopted the ATN/IPS by Conclusion APIRG 16/14 for the implementation of the AMHS FTBP as a soil/soil application of the ATN.

2. ANALYSIS

2.1. Status of AMHS Implementation at ASECNA



From 2014 to 2022, AMHS deployment in its 17 centers.



Virtualized AMHS systems including terminals were deployed in 7 centers. The remaining 10 centres are being replaced,



Implementation of completed internal IP links (encapsulated under frame relay)



3 bilateral connections with the adjacent centres, Brazzaville/Nairobi (May 2022), Dakar/Banjul (August 2022) and Brazzaville/Luanda (March 2023) were made,



Switching RSFTA circuits to AMHS (Protocol P1) between:



Internally

- 90% of channels have successfully completed IOT/POT, 84% of these channels are operational and, 6% are in the process of reporting to CMA
- 10% of the remaining circuits are in the process of implementing the IOT/POT



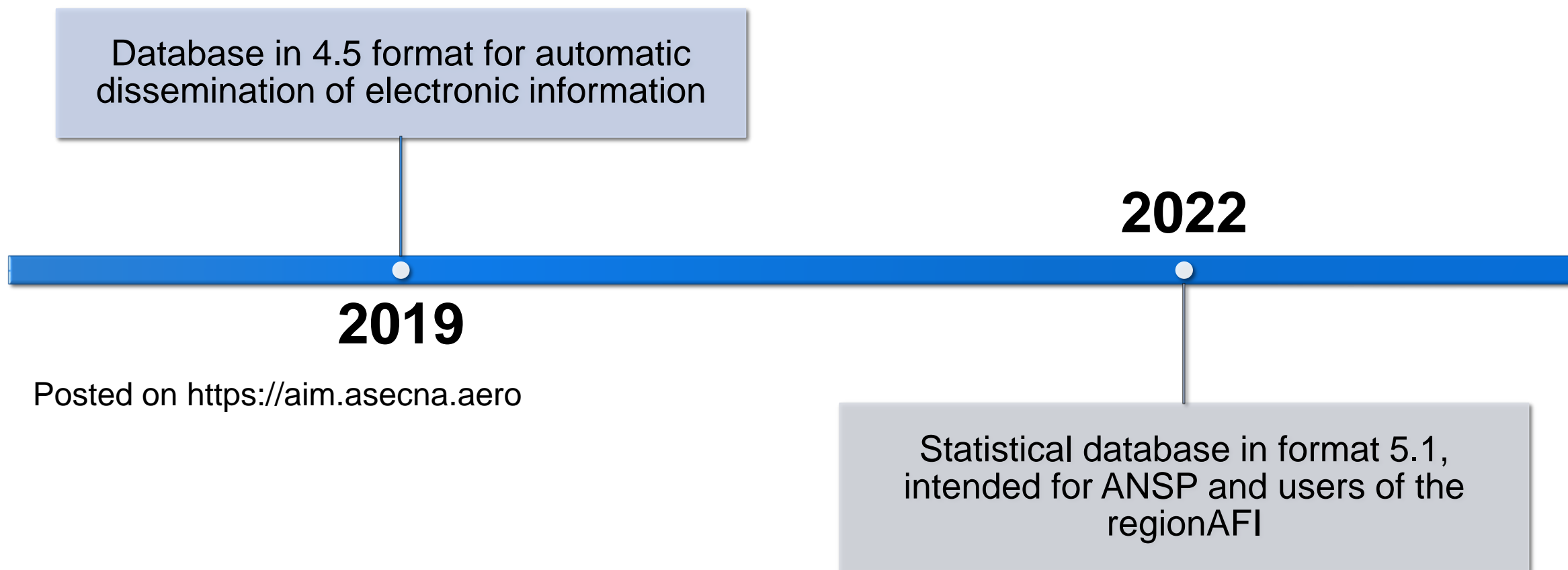
Bilateral (Outside ASECNA)

- 51% of asynchronous AFTN circuits, therefore not compatible for digital exchanges.
- 18% of the circuits are being migrated to IP;
- 23% IOT/POT tests to be scheduled;
- 8% pending upgrade VSAT AFISNET JNB for IP migration

2.2. Status of IWXXM implementation at ASECNA

From **2020** to 2021, replacement of 10 weather message switches (SMT) in Member States, taking into account the conversion of **OPMET** to IWXXM 3.0 **format**.

2.3. ASECNA AIXM Implementation Status



3. DIFFICULTIES ENCOUNTERED



a.1. Following the REX resulting from the implementation of the AMHS circuit between Dakar and Recife: we note minimum flow rate of 128 Kbps required for IWXXM, 4Mo for FTBP



a.2. Migration to 64 Kbps of certain links taking into account the actual data flows to be exchanged between the different main and dependent centres.



b. Current bandwidths no longer meet the minimum requirements for digital exchanges (at 19 kbps or 32 kbps). Compliance of the specifications of the ground-to-ground networks required for the AFI region (see project COM04 IIM/SG of APIRG)



c. Project to re-engineering AFISNET in gestation under the SNMC (ASECNA, GCAA, NAMA, FIR Roberts).

4. ACTION REQUIRED:

The meeting is invited:



take note of the information presented



To register the routing directories



To encourage stakeholders to acquire adequate equipment to ensure the migration of bilateral links



To carry out the IOT/POT tests in due form, with a view to the migration of bilateral circuits in AMHS and if successful, to declare them to the AMC.

Thank you for your attention

