IWXXM ASECNA

AFI IWXXM Workshop
(AFI Region, 25 August 2021, Virtual Platform)

Point 4b :
Status of the implementation of the IWXXM in the RODBs/IROG of Dakar and corresponding BCCs

(Presented by ASECNA)

Les routes du ciel, notre métier

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The exchange of information in IWXXM format is based on:

- The standard of amendment 78 of Annex 3 of the ICAO, applied since 05 November 2020;
- Using the extended AMHS File Transfer Body Part (FTBP) function;

The actions planned and executed for the implementation of data exchange in IWXXM format in the BRDO Dakar and BCC / NOC ASECNA operational centers are developed below:

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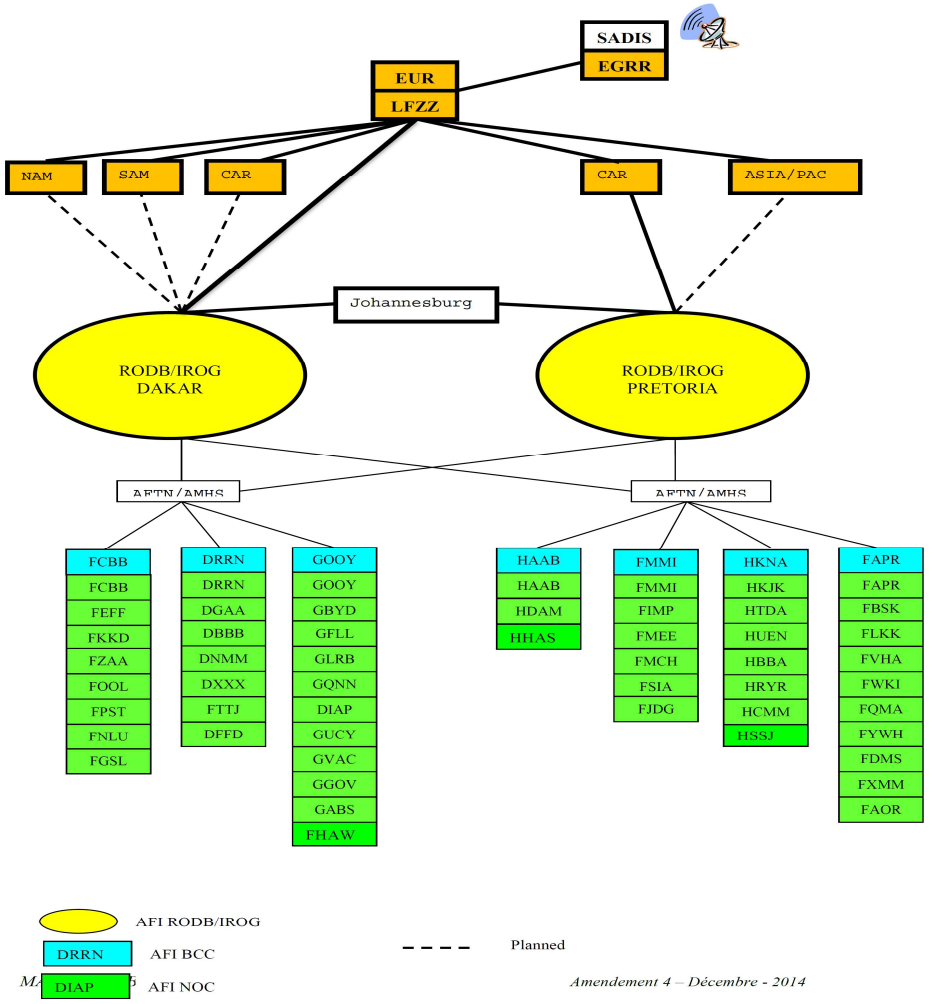
REMINDER: BCC /NOC AND BRDO ASECNA

- The Dakar BRDO is responsible for the 3 BCCs: Dakar, Niamey, Brazzaville with its 26 NOCs;
- 4/7 BCC (Dakar, Niamey, Brazzaville and Antananarivo) and 17/52 NOC (Dakar, Nouakchott, Bissau, Abidjan, Ouagadougou, Bamako, Niamey, Brazzaville, Libreville, Douala, Ndjamena, Malabo, Lomé, Cotonou, Bangui, Moroni and Antananarivo) are included in the coverage area of ASECNA.



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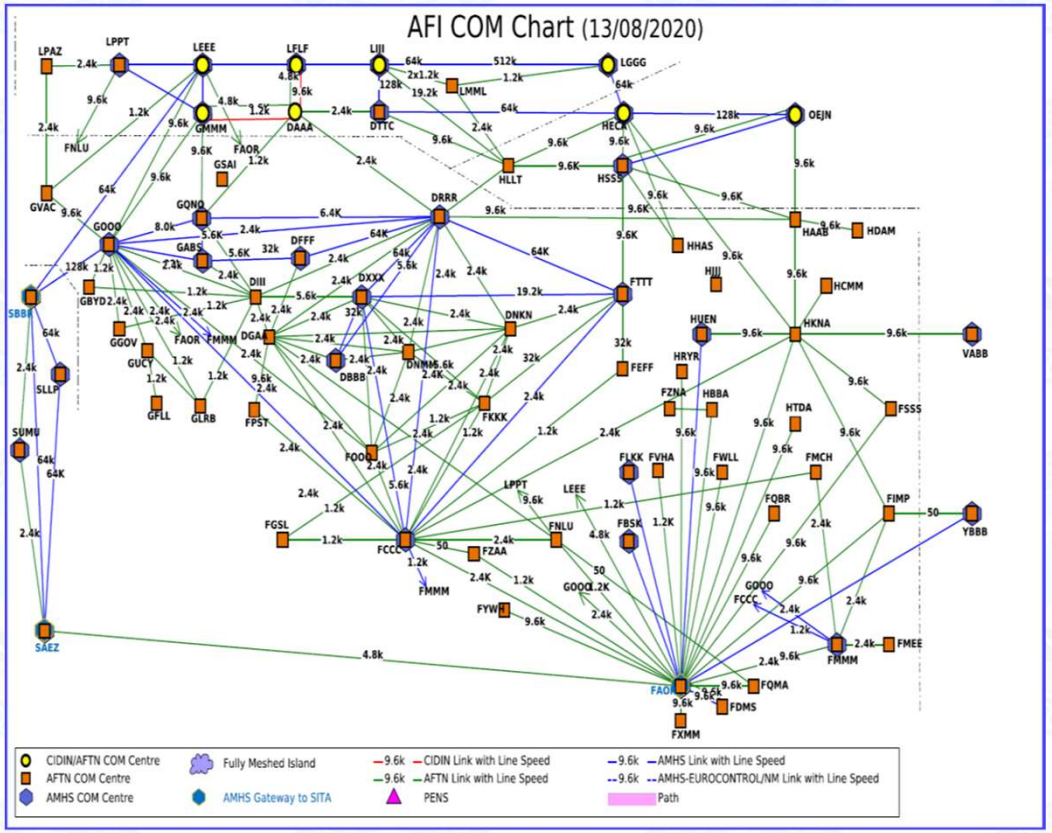
ACTIONS ALREADY CARRIED OUT IN AN OPERATIONAL MANNER

- The four (4) BCCs: Dakar, Niamey, Brazzaville and Antananarivo as well as the six (6) NOCs namely Nouakchott, Ouagadougou, Cotonou, Lomé, Ndjamena and Bamako are equipped with an extended AMHS system with FTBP functionality since 2017;
- The migration in AMHS (4 MB) of the inter-regional AFTN circuit between Dakar and Brasilia has been effective since 2020;
- The replacement of the meteorological message switch in the Dakar center with the following functionalities: server virtualization; web terminals; secure internet links with adjacent centers; conversion of TAC data to IWXXM format and processing of OPMET data to IWXXM format in accordance with the ICAO standard;
- The conversion of all the required OPMETs from TAC format to IWXXM3.0 format of all 4 BCCs and 17 ASECNA NOCs by the Dakar BRDO, pending the ongoing implementation of this functionality in the other BCCs and NOCs and selective transmission in the two formats to centers with or without a circuit and an AMHS system.



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ACTIONS ONGOING

- The ongoing allocation of the extended AMHS system of the remaining seven (7) NOCs: Abidjan, Bissau, Malabo, Libreville, Douala, Moroni and Bangui. Operational commissioning is scheduled before the end of March 2022;
- The ongoing provision of meteorological message switches with the IWXXM data processing capacity of the nine (9) operational centers: Brazzaville, Niamey, Abidjan, Douala, Libreville, Bissau, Moroni, Bangui and Malabo. These systems will be operational before April 30, 2022;
- The upgrade of the meteorological message switches, of the seven (7) centers: Nouakchott, Ouagadougou, Bamako, Lomé, Cotonou, Ndjamena and Antananarivo, to support data in IWXXM format;
- The upgrade of the Dakar regional OPMET database (BRDO) by purchasing a new system before December 31, 2022;
- Migration of intra-regional and inter-regional AFTN circuits to AMHS for centers with an extensive AMHS system, particularly:
  - Dakar-Johannesburg for exchanges between the two (2) RODBs of the AFI region : Dakar and Pretoria
  - Dakar -Madrid for the exchanges between the RODB of Dakar and the ROC of Toulouse.
- Perform IWXXM tests by FTP with the IROG in Toulouse, pending the implementation of the AMHS link;
- Perform IWXXM tests by FTP with the BRDO in Pretoria, pending the implementation of the AMHS link.
- The implementation of the metadata management processes before the end of June 2022 by the data producer IWXXM.

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ACTIONS NOT YET STARTED

- The migration of certain intra-regional AFTN circuits to AMHS of certain BCCs because of the non-availability of the extended AMHS system in certain NOCs attached to it in order to be able to distribute the data in IWXXM format.

THANK YOU FOR YOUR ATTENTION