International Civil Aviation Organization
Western and Central African Office - Dakar

**Eighth meeting of the FANS 1/A Interoperability meeting
Dakar, Senegal, 15 - 16, July 2013**

Agenda Item 4: System performance monitoring and maintenance

ATM system implemented in Dakar center for ADS/CPDLC needs

(Presented by Senegal)

The present working paper informs the meeting about the ATM system implemented in Dakar center for ADS/CPDLC needs. It deals with all available functions which make it compatible to any other standard ATM system.

1. Presentation of EUROCAT-X system

EUROCAT-X, in its version **3.15 V**, is operational in Dakar center since September 2007.It operates with the following features:

   - ADS/CPDLC

   - RADAR

   - Flight plan

EUROCAT-X includes the following components:

✓ An operational system using: 04 executive control positions, 04 glider control positions; 01 DBM, 01 FDO, 01 OPSUP, 01 TKSUP, 01 TWR/APP position.

✓ A simulator using: 02 executive control positions; 02 glider control positions, 01 DBM, 01 OPSUP, 01 EED position, 01 PILOT/LEADER/TKSUP position.

The simulator is used for air traffic controller's training. In case of failure of the operational system, it can be used as a back-up.

2. Migration to a new version

Since June 2012, a new version **V3.20** was installed offering the following features:

➢ FPL 2012 for the compatibility with ICAO new flight plan;

➢ SITA IP: for migration of SITA existing X25 connections;

➢ ADS-B router and MEDESIS (multi-tracking function) for the processing of ADS-B, RADAR, WAM and ADS-C tracks;

➢ AIDC V 3.0;

➢ DARP (Dynamic Planned Aircraft Parameter);

➢ DAP (Derived Aircraft Parameter).

Compatibility with standard ATM system

The system offers the following applications:

- **AIDC V 3.0** (ATS Interfacility Data Communication) operating with:

- point-to-point link

- AFTN network

- **OLDI** (On Line Data Interchange) operating with point-to-point connection using X25 protocol

3. **Action by the meeting**

The meeting is invited to:

- Take note of information related in this present working paper ;

- Make a Recommendation to promote the interoperability of ATM systems ;

- Encourage centers using compatible system to plan and make trials.

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