

**INTERNATIONAL CIVIL AVIATION ORGANIZATION**



**REPORT OF THE FOURTH MEETING OF THE SAT FANS 1/A  
INTEROPERABILITY TEAM**

**(SAT FIT/4)**

**(Sal, Cape Verde, 08-09 June 2009)**

---

*ICAO Western and Central African (WACAF) Office*

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of ICAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

**TABLE OF CONTENTS**

	<b>Page</b>
<b>Table of Contents</b>	<b>2</b>
<b>History of the meeting</b>	<b>3</b>
<b>Agenda</b>	<b>3</b>
<b>List of Recommendations</b>	<b>4</b>
<b>Report on Agenda Item 1</b>	<b>7</b>
<b>Report on Agenda Item 2</b>	<b>7</b>
<b>Report on Agenda Item 3</b>	<b>7</b>
<b>Report on Agenda Item 4</b>	<b>9</b>
<b>Report on Agenda Item 5</b>	<b>10</b>
<b>Report on Agenda Item 6</b>	<b>10</b>
<b>Report on Agenda Item 7</b>	<b>11</b>
<b>Appendices</b>	
<b>A. : List of participants</b>	<b>12</b>
<b>B. : Terms of reference, Work Programme and Composition         of the SAT FANS 1/A Interoperability Team (SAT/FIT)</b>	<b>15</b>

## **PART I - HISTORY OF THE MEETING**

### **1. Introduction**

1.1 The Fourth Meeting of the SAT FANS 1/A Interoperability Team (FIT) was held at the Sal Oceanic Control Center, Sal, Cape Verde from 8<sup>th</sup> to 9<sup>th</sup> June 2009, at the kind invitation of Cape Verde. The meeting was supported by the Airports and Air Navigation Safety Agency (ASA), Cape Verde.

1.2 The meeting was opened by Mr. Mario Paixiao Lopes, Chairman of the Board of Directors of ASA, on behalf of the Host State. He welcomed the delegates and emphasized the fact that the FIT/4 and SAT 14 T/F1 meetings occurred in a painful context of the history of civil aviation in the South Atlantic area, due to the accident involving the Air France AF 447 Aircraft, on 31<sup>st</sup> May 2009. In this regard the meeting observed one minute of silence to express its solidarity to the families of the victims. Mr. Lopes recalled also that ASA is celebrating its 25<sup>th</sup> anniversary, and marking the achievements made by the company in the civil aviation field during these 25 years. He therefore emphasized the need for continuing close relations and co-ordination among States to improve safety over the South Atlantic. He wished the participants a productive and successful meeting, that would yield good results for the benefit of aeronautical activities in the SAT region.

### **2. Officers and Secretariat**

2.1 Mr. Johnny Smith (ATNS South Africa) as rapporteur of the FIT acted as moderator for the meeting.

2.2 Mr. Sadou MARAFA, Regional Officer, Air Traffic Management of the ICAO WACAF Office, acted as the Secretary of the meeting.

### **3. Attendance**

3.1 The meeting was attended by 35 participants from eight (8) ICAO contracting States namely, Brazil, Cape Verde, Cote d'Ivoire, Ghana, Mauritania, South Africa, Senegal, and Spain, and 4 International/Interregional Organizations (ASECNA, IATA, SATMA and SITA).

3.2 The list of participants and their contact addresses is at **Appendix A** to this report.

### **4. Working languages**

4.1 The meeting was conducted in the English language and its relevant documentation was presented in this language.

### **5. Agenda of the meeting**

5.1 The meeting adopted the following agenda:

- Agenda Item 1: Adoption of the Agenda
- Agenda Item 2: Review of the terms of reference of the FANS 1/A Interoperability Team
- Agenda Item 3: Review of SAT/FIT/3 Report
- Agenda Item 4: Review of ADS/CPLC programmes and implementation activities in SAT FIRs
- Agenda Item 5: System performance monitoring and maintenance
- a. Interoperability requirements
  - b. Safety monitoring aspects
  - c. Problem identification, reporting and resolution procedures
- Agenda Item 6: Future work programme
- Agenda Item 7: Any other business

## 6. Conclusions and Decisions of the meeting

### SAT FIT4 LIST OF CONCLUSIONS

Number	Title
<p><b>Conclusion SAT FIT 4/1</b></p>	<p><b>ADS/CPDLC in the SAT Area</b> That:</p> <ul style="list-style-type: none"> <li>a) SAT members implement the various Conclusions related to the need for implementation/operational application of ADS/CPDLC in the SAT area by not later than the end of 2010; and</li> <li>b) Canarias FIR, Dakar Oceanic FIR and Atlántico FIR (EUR/SAM Corridor), take appropriate measures aimed at full operational implementation by August 2009, in compliance with previous SAT conclusions.</li> </ul>
<p><b>Conclusion SAT FIT 4/2</b></p>	<p><b>Hosting of the Central FANS Reporting Agency (CFRA)</b> That</p> <ul style="list-style-type: none"> <li>1. The CFRA be in place by 2010</li> <li>2. The CFRA Cost recovery is supported by the FIT in principle.</li> <li>3. Technical service providers be invited by the Secretariat to present their proposals to the FIT by SAT FIT5</li> <li>4. SATMA provides a business case, including financial implications and funding options: <ul style="list-style-type: none"> <li>a) for review by the FIT in order to ensure full transparency of the process, and</li> <li>b) to provide SAT States with the outcome of the business case for consideration in making their final decisions.</li> </ul> </li> </ul> <p><i>Note: SATMA (Spain) offered to discharge CFRA function pending the finalization of the CFRA.</i></p>

Number	Title
<p><b>Conclusion SAT FIT 4/3</b></p>	<p><b>Participation at SAT FIT meetings</b> That: a) In case the regulator is different from the service provider, SAT States should ensure participation of regulators in the SAT/FIT meetings in order to have full commitment to the implementation activities; and  b) Major airline representatives should also participate in the SAT/FIT meetings.</p>
<p><b>Conclusion SAT FIT4/4</b></p>	<p><b>Update of ADS/CPDLC activities by States:</b>  That States should update their plan of action/activities at Appendix D to the SAT FIT/2 report and return the same to the Rapporteur (<a href="mailto:johnnys@atns.co.za">johnnys@atns.co.za</a>) as an on going activity for presentation to SAT Meetings.</p>
<p><b>Conclusion SAT FIT 4/5</b></p>	<p><b>Update of FOM</b>  That a new controlled version of the FOM be posted to the corresponding ICAO Website. <i>Note: Latest version of FOM is version 6. Any further amendments to be forwarded to the Rapporteur.</i></p>
<p><b>Conclusion SAT FIT 4/6</b></p>	<p><b>Standardization of ADS- CPDLC functionalities within the SAT</b> That</p> <ol style="list-style-type: none"> <li>1) the FIT members as a working group develop a roadmap and make the necessary proposals to address : <ul style="list-style-type: none"> <li>• an AIP Supplement Model to be used by SAT States in future;</li> <li>• a common update rate for periodic contracts;</li> <li>• the parameters applied to trigger events contracts;</li> <li>• FANS 1/A non recognized messages;</li> <li>• Possible changes of LOA/LOPs; and</li> <li>• The altitude change range regarding RVSM airspace and non RVSM airspace.</li> </ul> </li> <li>2) The Secretariat initiates the process by July 2009 and all discussions be conducted by electronic correspondence</li> </ol>
<p><b>Conclusion SAT FIT 4/7</b></p>	<p><b>Use of ADS-C/CPDLC in south Atlantic</b>  That IATA and ICAO urge all airlines with suitably equipped aircraft to make use of ADS-C/CPDLC technologies to enhance safety and efficiency of operations within the south Atlantic.</p>

<b>Number</b>	<b>Title</b>
<b>Conclusion SAT FIT 4/8</b>	<b>ADS-C/CPDLC Systems Interoperability in SAT Area</b>  That Member States ensure interoperability of their systems and cooperate to implement data and applications exchange to improve operational coordination and air navigation safety.
<b>Conclusion SAT FIT 4/9</b>	<b>Amendment to the Work Programme of the SAT FANS 1/A Interoperability Team</b>  That the SAT FIT work programme is amended as shown in <b>Appendix B</b> to the SAT FIT 4 report.

## II - REPORT ON DISCUSSIONS

### 2.1 Agenda Item 1: Adoption of the Agenda

2.1.1 The meeting elected Mr. Johnny Smith, Manager ATS Johannesburg ATNS and member of the South African delegation as Chairman and Rapporteur of the meeting. Subsequently the provisional agenda was discussed and adopted by the meeting.

### 2.2 Agenda Item 2: Review of the terms of reference of the FANS 1/A Interoperability Team

2.2.1 This agenda item was considered by the meeting together with Agenda item 6.

### 2.3 Agenda Item 3: Review of SAT/FIT/3 Report

2.3.1 The meeting reviewed the Conclusions and Decisions adopted by the SAT/FIT/3 Meeting which was held in Montevideo, Uruguay, from 5 to 6 May 2008. and discussed the status of implementation of each of them.

2.3.2 As a result, the meeting was of the view that all the six Conclusions related to the SAT/FIT/3 Meeting were on going or still valid and reformulated or updated them as Conclusions of the present meeting. Therefore, the following general Conclusions relating to ADS-C/CPDLC implementation in the SAT region were reformulated:

**Conclusion ADS/CPDLC in the SAT Area**

**SAT FIT That:**

**4/1 a) SAT members implement the various Conclusions related to the need for implementation/operational application of ADS/CPDLC in the SAT area by not later than the end of 2010; and**

**b) Canarias FIR, Dakar Oceanic FIR and Atlántico FIR (EUR/SAM Corridor), take appropriate measures aimed at full operational implementation by August 2009, in compliance with previous SAT conclusions.**

**Conclusion Participation at SAT FIT meetings**

**SAT FIT That:**

**4/3 a) In case the regulator is different from the service provider, SAT States should ensure participation of regulators in the SAT/FIT meetings in order to have full commitment to the implementation activities; and**

**b) Major airline representatives should also participate in the SAT/FIT meetings.**

**Conclusion SAT FIT4/4 Update of ADS/CPDLC activities by States:**

**That States should update their plan of action/activities at Appendix D to the SAT FIT/2 report and return the same to the Rapporteur ([johnnys@atns.co.za](mailto:johnnys@atns.co.za)) as an on going activity for presentation to SAT Meetings.**

2.3.3 With reference to Conclusion SATFIT3/2, the meeting was presented with a proposal made by SATMA for the creation of a Task Force to take actions to decide the financial model for the Central FANS Reporting Agency (CFRA) in the EUR/SAM Corridor. The Conclusion SATFIT3/2 reads as follows:

***Conclusion SAT/FIT/3-2: Hosting of the Central FANS Reporting Agency, (CFRA) by SATMA***

***That SATMA hosts the CFRA, according with the terms of reference and duties and responsibilities approved with the technical support of a service provider, to be selected in the forthcoming SAT/FIT/4 Meeting.***

2.3.4 Since that Conclusion, SATMA has contacted FANS service providers to find the best way to develop and perform a global CFRA service including operative, administrative and technical support for EUR/SAM corridor States regarding ADS/CPDLC services. SATMA tried to explore all aspects to be taken into account so SATMA (proposed EURSAM Corridor CFRA) is provided with an external technical support.

2.3.5 Taking into account that SATMA has limited resources and, as any service provider that may offer a technical support will only work with a formal contract specifying all services and costs, it becomes necessary to agree to a funding model for the CFRA based on “cost recovery”

2.3.6 The meeting discussed the principle of establishing a cost recovery mechanism and the ways to achieve that goal. As a result, the meeting formulated the following Conclusion:

**Conclusion SAT FIT 4/2: Hosting of the Central FANS Reporting Agency (CFRA)**

**That**

- 1. The CFRA be in place by 2010**
- 2. The CFRA Cost recovery is supported by the FIT in principle**
- 3. Technical service providers be invited by the Secretariat to present their proposals to the FIT by SAT FIT5**
- 4. SATMA provide a business case, including financial implications and funding options:**

- a) **for review by the FIT in order to ensure full transparency of the process, and**
- b) **to provide SAT States with the outcome of the business case for consideration in making their final decisions.**

*Note: SATMA (Spain) offered to discharge CFRA function pending the finalization of the CFRA.*

2.3.7 *However, it is acknowledged that States would need to provide approval regarding financial commitment to the funding of the CFRA.*

## **2.4 Agenda Item 4: Review of ADS/CPLC programmes and implementation activities in SAT FIRs**

2.4.1 Under this item, the meeting was apprised of the measures taken by Brazil to comply with Conclusion 3/1 of SAT/TF/3 and to achieve full implementation of ADS-C/CPDLC functionalities in Atlantico FIR by July 30<sup>th</sup>, 2009.

2.4.2 It was recalled that, in order to ensure a harmonized implementation of ADS-C/CPDLC in the SAT region, all ANSPs should refer to procedures set out in Doc 4444 (PANS-ATM) and in FANS 1/A Operational Manual (FOM). It was noted that the latest version of the FOM available is the sixth one, which will be posted on the ICAO ESAF and WACAF websites.

Hence the Conclusion:

### **Conclusion SAT FIT 4/5: Update of FOM**

**That a new controlled version of the FOM be posted to the corresponding ICAO Website.**

*Note: Latest version of FOM is version 6.*

*Any further amendments to be forwarded to the Rapporteur*

2.4.3 With a view to ensuring harmonization in the applicable ADS-C/CPDLC procedures, the meeting deemed it necessary to establish a common model of AIP Supplement to be used by the States. In the same sense, some operational parameters must be harmonized between States to ensure safe operation of ADS-C/CPDLC in the area.

In this regard, the meeting agreed to the following Conclusion:

### **Conclusion SAT FIT 4/6: Standardization of ADS- CPDLC functionalities within the SAT**

**That**

- 1. the FIT members as a working group develop a roadmap and make the necessary proposals to address :**

- **an AIP Supplement Model to be used by SAT States in future;**
  - **a common update rate for periodic contracts;**
  - **the parameters applied to trigger events contracts;**
  - **FANS 1/A non recognized messages;**
  - **Possible changes of LOA/LOPs; and**
  - **The altitude change range regarding RVSM airspace and non RVSM airspace**
- 2. The Secretariat initiates the process by July 2009 and all discussions be conducted by electronic correspondence**

2.4.4 The meeting recognized the great benefit expected from the use of ADS-C/CPDLC in the SAT region. In this regard, the meeting discussed the best way for disseminating the information concerning the ADS-C/CPDLC implementation in the South Atlantic, besides the normal Aeronautical Information Services process and to encourage the aircraft operators to logon on to SAT ADS-C/CPDLC Systems.

The following Conclusion was therefore adopted:

**Conclusion SAT FIT 4/7: Use of ADS-C/CPDLC in south Atlantic**

**That IATA and ICAO urge all airlines with suitably equipped aircraft to make use of ADS-C/CPDLC technologies to enhance safety and efficiency of operations within the south Atlantic**

2.4.5 The meeting recalled that SAT FIRs and ANSPs could take advantage in interconnecting their systems and sharing surveillance operational data to enhance air navigation safety, particularly at FIR boundaries. In this regard, the meeting called on air navigation entities to establish technical cooperation and ensure full interoperability of their systems in order to implement data exchange and improve operational coordination. The following Conclusion was formulated in this sense:

**Conclusion SAT FIT 4/8: ADS-C/CPDLC Systems Interoperability in SAT Area**

**That Member States ensure interoperability of their systems and cooperate to implement data and applications exchange to improve operational coordination and air navigation safety.**

**2.5 Agenda Item 5: System performance monitoring and maintenance**

2.5.1 No particular issue was considered under this agenda item.

**2.6 Agenda Item 6: Future work programme**

2.6.1 The meeting reviewed the Terms of Reference and future work programme of the FANS 1/A Interoperability Team (FIT) and agreed to amend the FIT work programme to highlight the sustainability of the CFRA and financial issues relating to ADS/CPDLC

implementation (see Task 2 and 4 in **Appendix B**). The meeting therefore adopted the following conclusion:

**Conclusion SAT FIT 4/9: Amendment to the Work Programme of the SAT FANS 1/A Interoperability Team**

**That the SAT FIT work programme is amended as shown in Appendix B to the SAT FIT 4 report.**

**2.7 Report on Agenda Item 7: Any other business**

2.7.1 No particular issue was considered under this agenda item.

2.7.1 Organization of the next SAT FIT meeting will be coordinated within the FIT group. Portugal offered to host the next SAT15 meeting in March or April 2010. FIT members will be informed in time of the date and venue for the next FIT meeting finally agreed to.



**Appendix A**  
**SAT/FIT/4 Report**

**INTERNATIONAL CIVIL AVIATION ORGANIZATION**  
**Western and Central African Office**

**Fourth Meeting of the FANS I/A Interoperability Team (SAT/FIT/4)**  
(Sal, Cape Verde, 08 - 09 June 2009)  
**List of Participants/Liste de Participants**

<b>COUNTRY/PAYS</b>	<b>NAME/NOM</b>	<b>TITLE/FONCTION</b>	<b>ADDRESS</b>	<b>Telephone/Fax/E-Mail</b>
<b>BRAZIL</b>	Mr. Ernane Roza de CASTRO	Air Traffic Manager, DECEA	Av. Boa ViaGAM, 6836 BL.04 Aptoss – Recefe – PE	Tel.: + 55 81 991 0087 + 55 8121 298 242 Email: ernanecastro@hotmail.com
	Mr Marcos A. A. SANTOS	CNS Manager, DECEA	Av CENTENARIO Santos Dumont, S/N° Cindacta 3 – Bordad – Recife – PE	Tel.: + 55 81 2129 8180 Email: + marantalsan@hotmail.com
<b>CAPE VERDE</b>	Mr. Jose RODRIGUES	Administrator	Sal Airport, P.O.B. 58, Espargos	Tel.: + 238 99 12809 Email: jrodrigues@asa.cv
	Mr. Arlindo NEVES	Director of Air Navigation	ASA, Sal	Tel.: + 238 99 15642 Email: aneves@asa.cv
	Mr. Carlos BRITO	DAQA		Tel.: + 238 99 34934 Email: <a href="mailto:calbuto@asa.cv">calbuto@asa.cv</a>
	Mr. Jose Louis Ramos REIS	Chief Maintenance Service of Aeronautical Telecomms. Systems	Espargos – Ilha Do SAL	Tel.: + 238 99 12177 Email: jreis@asa.cv
	Mr. Teofilo FIGUEIREDO	CGACA	Bairro Novo – Espartos - Ilha Do SAL	Tel.: + 238 977 0139 Email: tfigueiredo@asa.cv
	Mr. Jose Paulo Almeida CABRAL	Chefe de Operações ATS	SAL	Tel.: + 238 99 12 159 Email: <a href="mailto:Jcabral@asa.cv">Jcabral@asa.cv</a> <a href="mailto:Paulocabral10@hotmail.com">Paulocabral10@hotmail.com</a>
	Mr. Altino Lopes CABRAL	ATC Coordinator	Aeroporto Internacional Amilcar Cabral, Ilha Do Sal	Tel.: + 238 241 1730 Email: acabral@asa.cv

COUNTRY/PAYS	NAME/NOM	TITLE/FONCTION	ADDRESS	Telephone/Fax/E-Mail
	Mr. Jose Carlos Jesus FERNANDES	Tecnico Telecom. Aeeronautica	Espartos – SAL	Tel.: + 238 99 12831 Email: <a href="mailto:jcarlos@asa.cv">jcarlos@asa.cv</a> Zecarlos50@hotmail.com
	Mr. Vital SANTOS	ASA	ASA	Tel.: + 238 12 807 Email: <a href="mailto:vitalvs@gmail.com">vitalvs@gmail.com</a>
	Mr. Sabino BAPTISTA		CP. 35 Espargos, Sal	Tel.: + 238 99 15642 Email: <a href="mailto:Salinogb@gmail.com">Salinogb@gmail.com</a>
COTE D'IVOIRE	M. Jean ALLA AMANI	Chef Département Navigation Aérienne	L'Autorité Nationale de l'Aviation Civile – ANAC, 07 BP 148 Abidjan 07	Tel.: + 225 07 923022 Fax.: + 225 21 27 6346 Email: <a href="mailto:allaamanijean@yahoo.fr">allaamanijean@yahoo.fr</a> <a href="mailto:anac@avisco.ci">anac@avisco.ci</a> / <a href="mailto:anac_ci@yahoo.fr">anac_ci@yahoo.fr</a>
	M. Sylvain N'ZEBO OI N'ZEBO	AIS/MAP Chief	L'Autorité Nationale de l'Aviation Civile – ANAC, 01 BP 7042 Abidjan 01	Tel.: + 225 03-300932 Fax.: + 225 21 27 6346 Email: <a href="mailto:snzebo@yahoo.fr">snzebo@yahoo.fr</a> <a href="mailto:anac@avisco.ci">anac@avisco.ci</a> / <a href="mailto:anac_ci@yahoo.fr">anac_ci@yahoo.fr</a>
GHANA	Mr. Albert TAYLOR	Director, Air Traffic Services	Ghana Civil Aviation Authority, Private Mail Bag, Kotoka International Airport, Accra	Tel.: + 233 21 77 6079 Email: <a href="mailto:ataylor@gcaagh.com">ataylor@gcaagh.com</a> <a href="mailto:Albert.aidoo-taylor@yahoo.co.uk">Albert.aidoo-taylor@yahoo.co.uk</a>
	Mr. Samuel ASANTE	ATS Watch Manager	Ghana Civil Aviation Authority, Private Mail Bag, Kotoka International Airport, Accra	Tel.: + 233 0244 644 872 233 21 77 3283 Email: <a href="mailto:skasannte57@yahoo.com">skasannte57@yahoo.com</a>
	Ms. Joyce ASANTE	Electronic Engineer	Ghana Civil Aviation Authority, Private Mail Bag, Kotoka Int. Airport, Accra	Tel.: + 233 244 88 6813 Email: <a href="mailto:naanajoyce@yahoo.com">naanajoyce@yahoo.com</a>
MAURITANIA	Mr. Abdoulaye Abasse N'GAIDE	Deputy Director General, ANAC	ANAC, BP 91, Nouakchott,	Tel. : + 222 525 3578/ + 222 524 4005 Fax : + 222 525 3578 Email : <a href="mailto:ngaidecsa@yahoo.fr">nqaidecsa@yahoo.fr</a>
	Mr. Moctar DIALLO	Consultant	ANAC, BP 91, Nouakchott	Tel.: + 222 74 60747 Email: <a href="mailto:sylle501@hotmail.com">sylle501@hotmail.com</a>
	Mr. Moctar Ould AHMED SALEM	Air Navigation expert		Tel. : + 222 244 7323 Fax : + 222 525 1625 Email : <a href="mailto:mukhtarsalem@yahoo.fr">mukhtarsalem@yahoo.fr</a>
SENEGAL	Mr. Magueye Maramé NDAO	Air Navigation Services Manager	BP 8132, Aéroport Léopold Sédar Senghor, Dakar, Yoff	Tel.: + 221 33 869 2307 Fax.: + 221 33 820 0600 Email : <a href="mailto:magueyen@yahoo.fr">magueyen@yahoo.fr</a>
	Mme Aïchatou SOW	Cadre Technique – Inspector Nav. Aérienne	Cité ASECNA N°. G65, BP 29848, Dakar/Yoff	Tel.: + 221 77 450 0415 Email: <a href="mailto:shatousow@yahoo.fr">shatousow@yahoo.fr</a>

COUNTRY/PAYS	NAME/NOM	TITLE/FONCTION	ADDRESS	Telephone/Fax/E-Mail
	Mr. Seydou BA	CNS Manager	Aéroport L.S.S. , BP 8132	Tel.: + 221 33 869 2320 Fax.: + 221 33 820 0252 Email: basey@asecna.org
	Mr. David MENDY	ATC	BP 8123, Svc. ENA, ASECNA Yoff Aéroport L.S.S.	Tel.: + 221 76 682 11 19 Email: Davidmendy@yahoo.fr
	Mr. Sidy GUEYE	Dakar ACC Manager	BP 8132, Dakar	Tel.: + 221 33 869 2305 Email: <a href="mailto:sgueye@yahoo.fr">sgueye@yahoo.fr</a>
SOUTH AFRICA	Mr. Harry ROBERTS	ATM Specialist - ATNS	Private Bag X15, Kempton Park, RSA 1627	Tel.: + 27 11 961 0123 Email: harryr@atns.co.za
	Mr. SMITH Johnny	Manager, Air Traffic Services	Air Traffic Control Centre, Johannesburg International Airport, Private BAG x1, Bonaero Park 1622	Tel.: + 27 11 928 6526 Fax : + 27 11 1045 395 Email: johnnys@atns.co.za
	Mr. NOLAN Lloyd		Pool Manager ACC, Johannesburg Area Private BAG x1, Bonaero Park 1622	Tel.: + 27 11 928 6436 + 27 82 572 9672 Fax.: + 27 11 945 1045 Email: lloydn@atns.co.za
SPAIN	M. Antonio Coronado TOURAL	Head of ATM Design, Development and Implementation Division	AENA/C/JUAN JUNAGD, Luca de Tena 14 - 28042, Madrid	Tel.: + 34 91 321 3321 Email: acoronado@aena.es
	Mr. Rubén Garcia PARDO	Head of International Institutional Relations Department	AENA, Juan Egnacio Luda de Tena, 14 28027, Madrid	Tel.: + 34 628 714 614 Email: rgpardo@e-externas.aena.es
<b>INTERNATIONAL ORGANIZATIONS/ ORGANISATIONS INTERNATIONALES</b>				
ASECNA	Mr. Bissa SOUGUE	Aeronautical Telecommunications Manager	BP 3144, Dakar	Tel.: + 22133 869 5732 Fax.: + 221 33 820 7538 Email:souguebis@asecna.org
	Mr. Amadou Yoro DIALLO	Chief of ATM Studies Bureau	P.O.B 3144, 32-38 Av. Jean Jaurès, Dakar	Tel.: + 221 33 869 5661 Fax.: + 221 33 820 7495 Email: <a href="mailto:dialloamad@asecna.org">dialloamad@asecna.org</a>
IATA	M. P. Zo'o Minto'o	Assistant Regional Director, AFI, IATA	88, Stella Street, Sandton, Johannesburg 2146, South Africa	Tel.: + 27 82 746 7413 Fax : + 27 11 5232701 Email : ZooMintooP@iata.org
SATMA	Mr. Antonio Arias FEBLES	SATMA CNS Responsible	AENA	Tel.: + 34 928 57177 Email: aarias@aena.es
SITA	Mr. GEURTS Patrick	Manager, ATM Business Development, Europe		Tel.: + 32 2 745 05 18 Mob.: + 32 479 76 05 10 Fax : + 32 2 745 05 70 Email : Patrick.geurts@sita.aero

**APPENDIX B**

**TERMS OF REFERENCE, WORK PROGRAMME AND COMPOSITION OF THE SAT  
FANS 1/A INTEROPERABILITY TEAM (SAT/FIT)**

1. The SAT FANS 1/A Interoperability Team (SAT/FIT) has been established to oversee FANS 1/A system performance monitoring to ensure that the system continues to meet safety and interoperability requirements and that operations and procedures are working as specified.
2. The FIT main objectives are to:
  - a) Monitor and harmonize ADS/CPDLC trials being carried out by SAT States and adjacent States;
  - b) Review identified problem reports and determine appropriate resolution;
  - c) Develop interim operational procedures to mitigate the effects of problems until such time as they are resolved;
  - d) Monitor the progress of problem resolution;
  - e) Prepare summaries of problems encountered and their operational implications;
  - f) Assess system performance based on information in Central FANS Reporting Agency (CFRA) periodic reports;
  - g) Co-ordinate system testing; and
  - h) Ensure harmonization of ADS/CPDLC procedures

.....

**APPENDIX B****WORK PROGRAMME OF THE SAT FANS 1/A INTEROPERABILITY TEAM**

<b>WORK PROGRAMME</b>		
<b>TASK No.</b>	<b>SUBJECT</b>	<b>TARGET DATE</b>
1.	Oversee FANS 1/A system performance monitoring to ensure that the system continues to meet safety and interoperability requirements and that operations and procedures are working as specified.	Continuous
2.	<b>Carry out studies on the establishment of a sustainable central reporting agency (CRA) and related institutional issues</b>	<b>SAT 15</b>
3.	Harmonize ADS/CPDLC programmes developed by SAT States/FIRs.	Continuous
4.	<b>Assist member States with cost-benefit aspects related to their implementation of ADS/CPDLC programmes.</b>	<b>Continuous</b>
5.	Maintain ADS/CPDLC operational guidance material updated.	Continuous
6.	Conduct studies related to the implementation of the Global ATM Operational Concept and other enabling concepts within the SAT area.	Continuous
<i>Note: The SAT FIT should submit its meeting reports and proposals to the SAT Working Group.</i>		
<b>COMPOSITION</b>		
<ul style="list-style-type: none"> <li>• <i>The SAT FANS-1/A Interoperability Team (FIT) of multi-disciplinary nature shall comprise of experts from States responsible of FIRs in AFI and SAM routing areas AR1/AH2 and AR2/AH8 as defined in the Global Air Navigation Plan (ICAO Doc 9750), and experts from adjacent FIRs and international organizations.</i></li> <li>• <b>Team Leader: South Africa</b></li> <li>• <b>WORKING ARRANGEMENTS: THE SAT FIT SHOULD COMPLETE ITS WORK AND SUBMIT ITS PROPOSALS TO THE SAT ATM WORKING GROUP. THE SAT FIT SHOULD WORK THROUGH ELECTRONIC CORRESPONDENCE PRIOR TO MEETINGS.</b></li> </ul>		

-----