

**RLA/06/901 - RLA/06/901 - ICAO SEMINAR/WORKSHOP ON THE IMPLEMENTATION OF  
GROUND-GROUND AND AIR-GROUND DATA LINKS IN THE SAM REGION (LIMA, PERÚ,  
10 TO 12 SEPTEMBER 2012)**

**IMPORTANT CONSIDERATIONS**

**IMPLEMENTATION OF GROUND-GROUND AND AIR-GROUND APPLICATIONS IN THE  
SAM REGION**

**IMPLEMENTATION OF AMHS INTERCONNECTION**

COMPLETE THE ESTABLISHMENT OF MoUs FOR THE INTERCONNECTION OF THE PENDING AMHS IN THE REGION, BY USING THE MODEL MoU ESTABLISHED BY THE SAM/IG GROUP, WITH THE SUPPORT OF RLA/06/901 PROJECT.

FOR A SUCCESSFUL IMPLEMENTATION OF AMHS INTERCONNECTION, THE ESTABLISHMENT OF THE FOLLOWING STEPS IS RECOMMENDED:

- a) TEORETICAL AND PRACTICAL TRAINING OF TECHNICAL AND OPERATIONAL PERSONNEL IN CHARGE OF AMHS; AND
- b) ESTABLISH INTERCONNECTION TRIALS FOLLOWING INDICATIONS IN THE GUIDE FOR THE OPERATIONAL INTERCONNECTION OF AMHS IN THE SAM REGION -- <http://www.lima.icao.int/eDocuments/CNS/AMHS/AMHS%20Guia.pdf>

PERU, IN VIEW OF THE SUCCESS IN THE INTERCONNECTION OF AMHS BETWEEN COLOMBIA-PERU AND ECUADOR-PERU, WOULD BE WILLING TO PROVIDE SUPPORT TO STATES REQUIRING SO, IN THE WORKS PERTAINING TO THE PENDING INTERCONNECTIONS.

**IMPLEMENTATION OF AIDC OR OLDI INTERCONNECTION BETWEEN ADJACENT  
ACCs**

THAT PROJECT D2 COMPLETE THE REVIEW OF THE PRELIMINARY SYSTEM INTERFACE CONTROL DOCUMENT FOR THE INTERCONNECTION OF ACC CENTERS OF THE CAR/SAM REGIONS (CAR/SAM ICD), APPROVED BY GREPECAS CONCLUSION 14/43, WITH THE AIM THAT SAME BE ADAPTED TO THE CURRENT REGIONAL AIDC/OLDI IMPLEMENTATION. FOR THE REVIEW OF THE CAR/SAM ICD. IT IS IMPORTANT THAT PERSONNEL IN CHARGE OF AIR TRAFFIC CONTROL PARTICIPATE. THE DOCUMENT SHOULD BE PRESENTED FOR REVIEW AT THE SAM/IG/11 MEETING (MAY 2013).

FOR A SUCCESSFULL AIDC INTEGRATION, IT IS IMPORTANT THAT THE OPERATIONAL MODEL BE WELL DEFINED. THE DEFINITION OF THE AIDC OR OLDI STATE MACHINE REPRESENTS THE MOST SENSIBLE STAGE IN THE PROCESS, WHICH REQUIRES THE DIRECT PARTICIPATION OF PERSONNEL IN CHARGE OF AIR TRAFFIC CONTROL.

THAT, IN THE GUAYAQUIL ACC MODERNIZATION WORKS, MAXIMUM EFFORTS BE MADE IN IMPLEMENTING AN AIDC INTERCONNECTION WITH THE LIMA ACC. IN THIS RESPECT, INDRA, IN CHARGE OF THE MODERNIZATION PROCESS, INFORMED IT WILL SUPPORT IN THE IMPLEMENTATION OF THIS INTERCONNECTION.

THAT THE SAM/IG REQUEST THE SUPPORT OF RLA/06/901 PROJECT FOR A MISSION COMPOSED BY ATM, CNS AND INDUSTRY PERSONNEL, TO EVALUATE THE AIDC IMPLEMENTATION PLANS IN THE SAM REGION, MANY OF WHICH ARE INCLUDED IN THE MoU ALREADY ESTABLISHED, WITH THE AIM OF PRESENTING SOLUTIONS FOR THEIR IMPLEMENTATION.

## **REGIONAL IMPLEMENTATION OF GROUND-AIR DATA LINKS**

WITH THE AIM OF MEETING OPERATIONAL REQUIREMENTS PERMITTING GREATER SAFETY, WORKLOAD REDUCTION IN THE CONTROLLERS' COMMUNICATIONS, AND FAMILIARIZATION WITH AUTOMATED ENVIRONMENTS, THE INITIAL IMPLEMENTATION OF GROUND-AIR DATA LINKS ARE RECOMMENDABLE, SUCH AS D-ATIS, D-VOLMET AND DCL. IN ADDITION, THOSE STATES HAVING OPERATIONS IN THEIR OCEANIC FIRs, ARE RECOMMENDED TO IMPLEMENT CPDLC AND ADS-C. IN THIS MANNER, STATES WILL FOLLOW-UP TO THE CONSIDERATIONS ESTABLISHED IN THE GLOBAL AIR NAVIGATION PLAN AND IN THE AIR NAVIGATION SYSTEM PERFORMANCE-BASED IMPLEMENTATION PLAN FOR THE SAM REGION, APPROVED BY THE SAM AERONAUTICAL AUTHORITIES AT RAAC/12 MEETING, HELD IN LIMA, FROM 3 TO 6 OCTOBER 2011.

WHEN IMPLEMENTING GROUND-AIR DATA LINKS, IT IS IMPORTANT THAT A SIX-MONTH MAXIMUM TRIAL PERIOD PROCESS BE CONDUCTED, IN ORDER TO CERTIFY THE OPERATION OF THE LINKS.

IN VIEW OF BRAZIL'S SUCCESSFUL EXPERIENCE IN THE OPERATION OF GROUND-AIR DATA LINKS, SUCH AS D-ATIS, D-VOLMET, DCL, CPDLS AND ADS-C IN ITS OCEANIC AREA, STATES OF THE REGION COULD REQUEST THE SUPPORT OF THE BRAZILIAN AERONAUTICAL ADMINISTRATION (DECEA) TO EXCHANGE EXPERIENCES IN THIS REGARD.

WHEN IMPLEMENTING GROUND-AIR DATA LINKS, AIRWORTHINESS APPROVAL IS REQUIRED. WITH REGARD TO THIS APPROVAL, THE STATE REGISTRATION AUTHORITY IS TO DETERMINE THAT THE AIRCRAFT COMPLIES WITH THE DATA LINK REQUIREMENTS (CPDLC, ADS-C, AIRWORTHINESS CERTIFICATION) AND THE APPROVAL OF THE MAINTENANCE PROGRAMME (MMEL, AFM, CONFIGURATION CONTROL, ETC.). COMPLIANCE WITH AIRWORTHINESS REQUIREMENTS WILL NOT CONSTITUTE OPERATIONAL APPROVAL AND, FOR THIS APPROVAL, THE USER STATE AUTHORITY IS TO CONDUCT OPERATIONAL APPROVAL AND ISSUE AUTHORIZATION FOR A USER TO CONDUCT CPDLC / ADS-C OPERATIONS.

SINCE MOST OF THE ASCENDING LINKS USE "FREE TEXT" (> 50% OF THE MESSAGES) AND THE DESCENDING MESSAGES USE "ROGER" IN REPLY TO A FREE TEXT MESSAGE, IT IS URGED THAT, WHERE IT APPLIES, THE PRE-FORMATTED MESSAGES AND THE FREE TEXT MESSAGES ARE USED WHEN REALLY REQUIRED.

## **DATA LINK GLOBAL MANUAL**

SAM STATES USE THE GOLD MANUAL FOR GROUND-AIR DATA LINK OPERATIONS, SPECIFICALLY THOSE HAVING OCEANIC FIRs. THE MANUAL HAS DATA LINK PLANNING INFORMATION, TRAINING MATERIAL AND MATERIAL FOR THE ELABORATION OF PROCEDURES.

THE GOLD MANUAL WAS APPROVED AT SAM/IG/8 MEETING (LIMA, PERU, 10-14 OCTOBER 2011) FOR ITS INITIAL USE IN ALL OCEANIC FIRs. PREVIOUSLY, IT HAD BEEN ADOPTED BY THE SAT REGION AT SAT/FIT/5 MEETING (LISBON, PORTUGAL, 17-18 MAY 2010) THROUGH CONCLUSION SAT/FIT/5-7.

SAM STATES PROVIDING, OR HAVING PLANS TO PROVIDE, GROUND-AIR DATA LINK SERVICES (CPDLC /ADS-C) ARE INVITED TO PARTICIPATE IN THE GOLD AMENDMENT PROGRAMME, AS THIS MANUAL IS CURRENTLY THE OPERATION MANUAL ADOPTED WORLD-WIDE.

TO PARTICIPATE IN THE GOLD AMENDMENT PROGRAMME, ONE IS TO SUBSCRIBE AT THE GOLD WEBSITE (ICAO PORTAL WEB SITE: <https://portal.icao.int>). GOLD VERSION 2 WILL BE READY BY THE FIRST QUARTER OF DEL 2013.

TO MONITOR FANS 1A (DATA COMMUNICATIONS IN TERMS OF RCP (REQUIRED COMMUNICATIONS PERFORMANCE)) AND SURVEILLANCE PERFORMANCE (ADS-C), STATES OF THE REGION HAVING THE MENTIONED APPLICATION IMPLEMENTED, OR IN ARE IN THE IMPLEMENTATION PHASE, TAKE NOTE OF THE INFORMATION CONTAINED IN THE GOLD MANUAL, APPENDIX D, IN ORDER TO STANDARDIZE THE DATA COLLECTION AND LATER PROCESSING PROCEDURES. THIS ACTIVITY IS IMPORTANT, TO GUARANTEE THE EVALUATION OF SAFETY AND COMPLIANCE TO ANNEX 11, PARAGRAPH 2.2.7.5.