



Agenda Item 4: Assessment of operational requirements to determine the implementation of improvements in communications, navigation and surveillance (CNS) capabilities for operations in route and terminal area

Follow-Up to the activities for the access to the SITA data link network through the REDDIG II

(Presented by the Secretariat)

SUMMARY

This working paper presents information related with the activities carried out to follow-up the actions required by the SAM/IG/14 for the access to the SITA data link network through the new REDDIG II digital network.

REFERENCES:

- Final report of the Fourteenth Workshop/Meeting of the SAM Implementation Group (SAM/IG/14) Lima, Peru, 10 to 14 November 2014
- Final report of the Eighteenth Meeting of the Coordination Committee of project RLA/03/901 (RCC/18) Lima, Peru, 2 to 4 March 2015

ICAO strategic objectives:

A – Safety

B – Air navigation capacity and efficiency

1 Background

1.1 The SAM/IG/14 meeting took note with great interest of the proposal of SITA to allow States to use the REDDIG to access SITA’s AIRCOME data link network in order to better comply with the high availability requirement for ATC data link services implemented in the South American Region.

1.2 Use of REDDIG by the ANSPs (air navigation service providers) to access the SITA ACARS service, as proposed by SITA, would replace the current access to the ground network provided by SITA and would generate the following benefits:

- ANSPs would benefit from using an extremely safe and reliable network designed for ATC purposes, to access the data link service that is increasingly important in ATC operations.
- REDDIG would give added value to ANSPs, since they would not have to pay SITA for the current access links from the ground network provided by SITA to SITA’s ACARS service.
- The transition of ANSPs from the current links provided by SITA to the REDDIG IP links would not require any changes to ANSP system interfaces.

1.3 Likewise, the following must be taken into account when considering accepting the proposal:

- The deployment by SITA to meet DECEA requirement of an ACARS processor in Brazil implies access to an ACARS processor via REDDIG through the Recife node.
- Subject to the specific terms and conditions to be established with the SAM Regional Office, the other ANSPs with access to the REDDIG could use the Recife access point of the REDDIG to communicate with the ACARS processor at regional level.
- SITA will give backup to any ANSP that wishes to try the REDDIG to access the ACARS service, and will work with the REDDIG service provider to establish such access, without losing sight of all the requirements of the two networks.
- SITA is ready to prepare and provide the South American States and the ICAO Regional Office a traffic analysis to define the proper dimensions to meet current and projected traffic loads, and to make sure that projected traffic will not overload the REDDIG.
- To achieve this, SITA recommends that all ANSPs provide the ICAO Office with their current and future ACARS traffic estimates for planning purposes.

1.4 In view of the above, the SAM/IG/14 Meeting requested SITA to present the information at the Eighteenth coordination committee meeting of Project RLA/03/901 to be held in Lima, Peru, on 2-4 March 2015 (RCC/18). In this regard, the Meeting formulated the *Conclusion SAM/IG/14-14 - Implementation of the SITA data link service through the REDDIG II*.

2 Analysis

2.1 The RCC/18 meeting analyzed the proposal presented by SITA on Air Navigation (ANSPS) Service Provider access to SITA data link service through the REDDIG.

2.2 In this sense, the Meeting was informed that currently the SITA ATS AIRCOM service supports several services ATC data link ANSPS of the SAM Region as FANS 1/A (CPDLC and ADS-C) in Brazil (DECEA), Uruguay (DINACIA), Chile (DGAC), French Guiana (DSNA) and Argentina (DGCTA).

2.3 The Meeting considered the proposal offered by SITA useful for States which had data link with SITA services especially for Chile and French Guiana, since in these countries for access to SITA network it is required to hire communications service providers which would affect the cost of data link service to these States.

2.4 In this regard the RCC/18 meeting considered that as a first step to access the Datalink SITA service through the REDDIG II, it will be necessary to perform tests for a period of three months in one of the States mentioned in the preceding paragraph. In this respect the Meeting taking into account the current status of the data link service in those States, considered that tests should be carried out in Chile.

2.5 SITA informed to the Meeting that would give all the technical support for the trial period at no cost for the Aeronautical Administration of Chile. In this regard the Meeting considered that Chile will analyze the possibility of testing and report to ICAO Regional Office by April 15, 2015 and in case

they decided to accept the tests, it would start on July 2015. In this sense the Meeting formulated the Conclusion *RCC 18/2 - Tests to access the SITA data link service through the REDDIG II by ANSP.*

2.6 The REDDIG administration analyzed the costs of testing for a period of three months in REDDIG II and proceeded to its submission to the Civil Aeronautical Administration of Chile with letter SA182 dated 20 March 2015.

2.7 On 17 April 2015 the Dirección General de Aeronáutica Civil of Chile with letter N° 04/4/221/2233 approved the carrying out tests using Santiago REDDIG node, to access the SITA data link service.

2.8 With the acceptance of the tests by Chile, SITA is invited to submit a schedule of activities for the realization of tests starting them as agreed on July 2015, in order that the administration of the REDDIG performs the necessary actions in the REDDIG II to include this service, as well as the subsequent activities.

3 Suggested action

3.1 The Meeting is invited to:

- a) Take note of the information provided; and
- b) analyse the activities to be performed to continue with the implementation of the data link service of SITA in the REDDIG II.

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