



International Civil Aviation Organization
South American Office (SAM) - Project RLA/03/902
Transition to GNSS/SBAS in the CAR/SAM Regions –SACCSA – Phase III
Ninth Meeting of the Coordination Committee (RCC/9)
Lima, Peru, 1-4 July 2013

Agenda Item 5: Annual project assessment

2012 PROJECT ASSESSMENT FORMS

(Presented by the Secretariat)

SUMMARY	
This working paper presents a set of forms for assessing the status of the project in 2012.	
References:	
<ul style="list-style-type: none">• RLA/03/902 Project Document Revisions L and O• Report of the Eighth Meeting of the Coordination Committee of Regional Project RLA/03/902 (Mexico, 28 May to 1 June 2012)	
ICAO Strategic Objectives	<i>This working paper is related to Strategic Objectives: A. Safety C. Environmental protection and sustainable development of air transport</i>

1. Introduction

1.1 With the implementation of the quality management and continuous improvement system in ICAO Technical Cooperation Bureau projects, various forms to be completed by the authorities receiving assistance are being used to measure, assess, and follow up project outcomes.

1.2 The information thus provided is a valuable contribution to the maintenance and strengthening of joint work, aimed at more efficient project management.

1.3 The documents to be completed are:

- a) Project monitoring and control, work plan for the year. The purpose of this table is to define the work plan for the new period, the activities and results foreseen for the year with respect to each strategic objective of ICAO. All this will serve as a basis for assessing the percentage of execution. This information can be submitted on a quarterly basis to support decisions concerning execution improvements as appropriate.

- b) Survey on management and outcome indicators. These forms will be submitted annually and will contain the following sections:

- 3.1 Section I Assessment of State satisfaction with the project
- 3.2 Section II Assessment of achievement of project objectives
- 3.3 Section III Assessment of project execution and provision of services by ICAO
- 3.4 Section IV Identification of lessons learned, both positive and negative

1.4 States are requested to provide the information requested and take action as appropriate to attain the implementation goals established in the project work plan.

2. Annual assessment of project implementation

2.1 The assessment of project status includes a table on the situation of the project as of 30 June 2013. This table is contained in **Appendix A** to this paper and will be updated semi-annually to keep member States informed.

3. Suggested action

3.1 The Coordination Committee is invited to:

- a) take note of the information contained in this working paper;
- b) take note of the status of implementation of the project as of 30 June 2013, as shown in Appendix A;
- c) review and approve the project monitoring and control table and the 2013 work programme presented in **Appendix B**;
- d) review and complete the annual assessment of the status of implementation of the project contained in **Appendix C**;

APPENDIX A

1. PROJECT SITUATION AS OF 30 JUNE 2013 AND MANAGEMENT AND OUTCOME INDICATORS		
PROJECT NUMBER:		RLA/03/902
PROJECT TITLE:		Transition to GNSS/SBAS in the CAR/SAM Regions –SACCSA –
IMMEDIATE OBJECTIVE 1	WP 1000.- Monitoring network to analyse ionosphere behaviour and the operation of the models defined for the region	
OUTCOME 1.1	PT-1100 Definition of monitoring network requirements	
STATUS	100%	
PLANNED TIMETABLE	Start date: 01/04/2010 Delivery date: 21/05/2010	
ACTUAL TIMETABLE	Start date: 01/04/2010 Delivery date: 30/06/2010 Deviation: 0 months REASON:	
OUTCOME 1.1 OUTCOME	DELIVERABLES / INDICATORS 2013	Remarks
Requirements of the reference stations to be installed in Latin America, which will provide the necessary data to be processed, and requirements of their interfaces with the Data Capture Centre Processing Unit - WEB site	PT-1100 document: Definition of the functional requirements of the monitoring network	Activity completed
OUTCOME 1.2	PT-1200 Implementation of the Data Capture and Distribution Centre	
STATUS	Percentage of progress 100%	
PLANNED TIMETABLE	Start date: 01/07/2010 Delivery date: 18/11/2010	
ACTUAL TIMETABLE	Start date: 26/08/2010 Delivery date: 27/04/2011 Deviation: 4 months REASON: FINANCING	
OUTCOME 1.2	DELIVERABLES / INDICATORS 2013	Remarks
Description and definition of the requirements of the Data Capture and Distribution System and WEB site	PT-1200 document: Definition of the Data Capture and Distribution Centre for SACCSA	Activity completed
OUTCOME 1.3	PT-1300 Operation of the Data Capture and Distribution Centre	
STATUS	20%	
PLANNED TIMETABLE	Start date: 01/12/2010 Delivery date: 01/09/2011	
ACTUAL TIMETABLE	Start date: 10/10/2011 Delivery date: Pending Deviation: 18 months REASON: Financing and situation of AENA	
OUTCOME 1.3	DELIVERABLES / INDICATORS 2013	Remarks
Operation of the SACCSA monitoring network	Monitoring network in operation and PT-1300 report	Contracting of Task Group A-2 pending. Negotiations have been conducted with GMV through Amendment III to the Contract, and a revision procedure has been proposed to Project members.
IMMEDIATE OBJECTIVE 2	Complete studies of the present SACCSA phase, on issues such as communications, the ionosphere, ground network topology, etc.	
OUTCOME 2.1	PT-2100 Technical analysis of the SBAS solution in the CAR/SAM Regions	
STATUS	100%	
PLANNED TIMETABLE	Start date: 19/08/10 Delivery date: 12/12/11	
ACTUAL TIMETABLE	Start date: 19/08/10 Delivery date: 24/10/11 Deviation: 0 months REASON:	

OUTCOME	2013	Remarks
OUTCOME 2.1	DELIVERABLES / INDICATORS	Remarks
	2013	
Based on the experimental results of the previous phases, the reference station network was optimised, distributing it homogeneously in the CAR/SAM Regions to meet horizontal and vertical precision requirements for APV-I, with confidence levels between 95% and 99%.	PT-2100 document: Technical analysis of the SBAS - SACCSA solution	Activity completed
OUTCOME 2.2	<i>PT-2200 Ionosphere analysis</i>	
STATUS	100%	
PLANNED TIMETABLE	Start date: 15/02/2010 Delivery date: 12/10/10	
ACTUAL TIMETABLE	Start date: 15/02/2010 Delivery date: 26/11/10 Deviation: 1 month REASON:	
OUTCOME 2.2	DELIVERABLES / INDICATORS	Remarks
	2013	
Detailed analysis of ionosphere behaviour, ensuring an adequate margin to meet APV-1 operational requirements, recommending dual-frequency services based on a single-frequency service	PT-2210 document: Detailed ionosphere analysis - SACCSA and PT 2220 document: Generation of IET and support scenarios	Activity completed
OUTCOME 2.2	<i>PT-2400 Optimizing the communication network</i>	
STATUS	100%	
PLANNED TIMETABLE	Start date: 10/11/2010 Delivery date: 07/09/2011	
ACTUAL TIMETABLE	Start date: 10/11/2010 Delivery date: 15/11/2011 Deviation: 2 months REASON:	
OUTCOME 2.2	DELIVERABLES / INDICATORS	Remarks
	2013	
Optimum communication network configuration, assuming specific geostationary satellite that meets SACCSA requirements.	PT-2400 document: Optimisation of communications	Activity completed
OUTCOME 2.2	<i>PT-2600 Ground network topology</i>	
STATUS	100%	
PLANNED TIMETABLE	Start date: 15/02/10 Delivery date: 26/03/10	
ACTUAL TIMETABLE	Start date: 15/02/10 Delivery date: 07/04/10 Deviation: 0 months REASON:	
OUTCOME 2.2	DELIVERABLES / INDICATORS	Remarks
	2013	
Topology of the earth reference stations (ERS) distributed homogeneously in the service area to meet operational requirements, without exceeding 48 stations.	PT-2600 document: Topology of the SACCSA ground network.	Activity completed
OUTCOME 2.2	<i>PT-2800 SBAS solution consulting service</i>	
STATUS	100%	
PLANNED TIMETABLE	Start date: 09/08/10 Delivery date: 08/11/10	
ACTUAL TIMETABLE	Start date: 09/08/10 Delivery date: 14/12/10 Deviation: 0 months REASON:	

OUTCOME	2013 DELIVERABLES / INDICATORS	Remarks
OUTCOME 2.2	2013	Remarks
Requirements to be met by SACCSA in order to be compatible with other SBAS solutions: provisions to migrate to band L2C or L5, bandwidth and power for dual-frequency, and single-frequency option.	PT-2800 document: SACCSA interoperability analysis	Activity completed
IMMEDIATE OBJECTIVE 1	SACCSA Central Processing Unit (CPU) prototype and its operation in the region	
OUTCOME 1.1	PT-3100 SACCSA prototype	
STATUS	100%	
PLANNED TIMETABLE	Start date: 19/11/10 Delivery date: 11/03/11	
ACTUAL TIMETABLE	Start date: 19/11/10 Delivery date: 04/03/11 Deviation:0 months REASON:	
OUTCOME 1.3	DELIVERABLES / INDICATORS 2013	Remarks
Central processing unit (CPU) prototype that will be generating SBAS messages, and its interface with the Data Capture and Distribution Centre.	PT-3100 document: SACCSA CPU prototype	Activity completed
OUTCOME 1.2	PT-3200 Prototype operation	
STATUS	20%	
PLANNED TIMETABLE	Start date: 01/03/2011 Delivery date: 01/06/2011	
ACTUAL TIMETABLE	Start date: 10/10/2011 Delivery date: 00/00/00 Deviation:24 months REASON: Financing and situation of AENA	
OUTCOME 1.2	DELIVERABLES / INDICATORS 2013	Remarks
Sites available close to where the SACCSA reference stations are located, allowing the CPU prototype to generate SBAS messages	PT 3200 report	Contracting of Task Group A-2 pending. Negotiations have been conducted with GMV through Amendment III to the Contract, and a revision procedure has been proposed to Project members.
IMMEDIATE OBJECTIVE 1	Analysis of supplementary options for areas with poor or limited service	
OUTCOME 1.1	PT-5100,PT-5200, PT-5300	
STATUS	35%	
PLANNED TIMETABLE	Start date: 01/12/10 Delivery date: 01/11/11	
ACTUAL TIMETABLE	Start date: 10/10/2011 Delivery date: 00/00/0000 Deviation: 18 months REASON: Financing and situation of AENA	
OUTCOME 1.1	DELIVERABLES / INDICATORS 2013	Remarks
Areas where SACCSA meets precision, integrity and availability requirements for APV-I, under both nominal conditions and degraded conditions due to solar activity.	PT-5100 document: Identification of areas with poor or limited provisions and complementary solutions.	Activity completed
Supply of tools, and comparison of complementary solutions for GNSS to meet APV-I requirements in the service area.	PT-5200 report PT-5300 report	Contracting of Task Group A-2 pending. Negotiations have been conducted with GMV through Amendment III to the Contract, and a revision procedure has been proposed to Project members.
IMMEDIATE OBJECTIVE 1	Improvements to the SACCSA WEB page	
OUTCOME 1.1	PT-6100 Definition of web site requirements	
STATUS	100%	
PLANNED TIMETABLE	Start date: 15/02/2010 Delivery date: 07/15/2010	
ACTUAL TIMETABLE	Start date: 15/02/2010 Delivery date: 06/07/2010 Deviation: 0 months REASON:	
OUTCOME 1.1	DELIVERABLES / INDICATORS 2013	Remarks
Definition of URL web site http://www.rfasaccca.com., access requirements, and contents, which include ICAO documents, SACCSA contents, EDISA contents, links and other material.	PT-6100 document: Definition of SACCSA WEB site requirements	Activity completed
OUTCOME 1.2	PT-6200 Web site implementation	
STATUS	100%	
PLANNED TIMETABLE	Start date: 21/06/2010 Delivery date: 01/01/2011	
ACTUAL TIMETABLE	Start date: 26/08/2010 Delivery date: 27/04/2011 Deviation: 4 months REASON: FINANCING	
OUTCOME 1.2	DELIVERABLES / INDICATORS 2013	Remarks

OUTCOME	2013	Remarks
Definition of the requirements for the implementation of the WEB site that will be used for disseminating SACCESA information through the Internet, and for showing the data obtained by the Data Capture and Distribution Centre	PT-6200 document: Definition of the SACCESA WEB site	Activity completed
OUTCOME 1.3	PT-6300 Web site operation and maintenance	
STATUS	20%	
PLANNED TIMETABLE	Start date: 01/01/2011 Delivery date: 01/05/2011	
ACTUAL TIMETABLE	Start date: 10/10/2011 Delivery date: 00/00/00 Deviation: 24 months REASON: Financing and position of AENA	
OUTCOME 1.3	DELIVERABLES / INDICATORS	Remarks
	2013	
Ensure uninterrupted operation of the WEB site through proper maintenance and compliance with the requirements set forth in PT 6100 and 6200	PT-6300 report: WEB site operation and maintenance.	Contracting of Task Group A-2 pending. Negotiations have been conducted with GMV through Amendment III to the Contract, and a revision procedure has been proposed to Project members.

Project N°: RLA/03/902

Title: Ninth Meeting of the Coordination Committee (RCC/9)



3. SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS

Section I: Evaluation of current project

Section II: Assessment of compliance with objectives

Section III: Evaluation of implementation and delivery of services by ICAO

Sección IV: Lessons learned

RATING SCALE	
5.0	Exceptional results beyond project requirements
4.5	Exceeds requirements
4.0	Project objectives were achieved in all cases
3.5	Most of the project's objectives were achieved
3.0	Some quality results were achieved and implemented
2.5	Some quality results were achieved but are not implementable
2.0	Some results were achieved with little impact and quality
1.5	Below the expected results
1.0	Well below the expected results

3. SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS

I. EVALUATION OF CURRENT PROJECT

1.- Project objectives

Do you think the project's objectives are set correctly according to the development priorities of your State in relation to the National Air Navigation Plan to serve the real of civil aviation?

Comments

Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)

2.- Support at regional and global level

Do you think that the project responds and supports your administration with the commitments of the Regional and Global Air Navigation Plans?

Comments

Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)

3.- Comments of the State(s)

Do you have any comments on the direction of the project?

Comments

Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)

4.- Strategy and vision

Do you consider that the project meets your institution's strategy and vision that has at long term?

Comments

Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)

5.- Project quality

What opinion deserves you the content of this project to achieve the expected objectives?

Comments

Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)

6- Project resources

3. SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS

I. EVALUATION OF CURRENT PROJECT

Do you consider that the financial, physical and human resources agreed to achieve the objectives established in the project document are appropriate?	
Comments	
Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)	

7.- Project participants	
Do you consider that all parties that should be involved in the project are present? If it is not so, who should be involved?	
Comments	
Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)	

8.- Project effectiveness	
Is the project effective in costs compared to similar programs or projects?	
Comments	
Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)	

9.- Modification of project objectives	
What modifications to the objectives and scope of the project would you propose?	
Comments	

10.- Other information	
Please provide any other information that may support or clarify your perception of the current project scope.	
Comments	

II. ASSESSMENT OF OBJECTIVES COMPLIANCE

1.- Project objectives

In terms of project management by ICAO, do you think that project objectives are being met?

Comments

Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)

2.- Project schedule

Do you think that project objectives are being met or have been met promptly in accordance with your expectations?

Comments

Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)

3.- Use of resources

Do you consider that in meeting the objectives are being used, or have been used, resources efficiently?

Comments

Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)

4.- Project cost

Do you consider that the costs relating to compliance with the objectives are or have been appropriate?

Comments

Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)

5.- Major achievements

What are the main achievements of the project in relation to the expected results?

Comments

Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)

6.- Major problems and their resolution

What are the main problems affecting the achievement of the expected results and how should they be resolved?

II. ASSESSMENT OF OBJECTIVES COMPLIANCE

Comments

Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)

7.- Other comments

Please include other comments related to the compliance of project objectives.

Comments

8.- Risks

What new events that could happen, would probably affect the achievement of project outputs? What do you recommend to respond to these events?

Comments

9.- Other information

Please provide any other information that may support or clarify your assessment regarding compliance with the objectives of the project.

3. SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS

III. EVALUATION OF PROJECT IMPLEMENTATION AND PROVISION OF SERVICES BY ICAO

6.- Service to the State Do you think that the service provided to your State is appropriate?	
Comments	
Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)	

7.- Communication Do you think that the level of communication within and outside the project is adequate?	
Comments	
Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)	

8.- Conflicts Do you believe that conflict management is adequate?	
Comments	
Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)	

9.- Use of resources Do you think that project resources are being used efficiently to produce the expected results?	
Comments	
Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)	

10.- Relevance of mechanisms Do you think that management mechanisms of the project are relevant?	
Comments	
Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)	

3. SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS

III. EVALUATION OF PROJECT IMPLEMENTATION AND PROVISION OF SERVICES BY ICAO

11.- Opportunity to work plans

On the basis of its work plan, how would you rate the degree of opportunity of the project as regards the achievement of products, outputs and delivery of

Comments

Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)

12.- Orientation

Do you consider that the activities and products developed through the project are in line with ICAO directives, regional offices and air navigation plans?

Comments

Please enter the rating of satisfaction that this issue deserves to you (from 1 to 5)

13.- Other information

Please provide any other information that may support or clarify your assessment on products and services provided through the project

Comments

3. SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS

IV. LESSONS LEARNED

1.- Positive lessons learned from the project.

Provide a brief description of the positive lessons learned from project implementation.

Comments

2.- Opportunities for improvement.

Provide a brief description of the improvement opportunities identified during project implementation.

Comments

3.- Strategy to implement the improvement opportunities identified.

Provide a brief description of the strategy that you would propose to implement the improvement opportunities

Comments