



Agenda Item 2: Follow-up on the Action Plan for the Implementation of the MEVA II / REDDIG Interconnection

FOLLOW UP TO MEVA II / REDDIG ACTION PLAN ACTIVITIES

(Working paper presented by the Secretariat)

SUMMARY

This working paper presents the activities carried out in the implementation of MEVA II / REDDIG interconnection, on the basis of the MEVA II / REDDIG Action Plan amended during the sixth of the MEVA II / REDDIG coordination meeting (MR/6), held in Lima, Peru, from 7 to 8 May 2008.

References:

- Report of the Fourth MEVA II / REDDIG Coordination Meeting (MR/4) (Lima, Peru, 7-9 March 2007);
- GREPECAS/14 Report (Santiago, Chile, 16-20 April 2007);
- Report of the Fifth MEVA II / REDDIG Coordination Meeting (MR/5) (México; México, 3-5 October 2007);
- Report of the Sixth MEVA II / REDDIG Coordination Meeting (MR/6) (Lima, Peru, 7-8 May 2008);
- Report of the sixth meeting of the ATM/CNS Subgroup CNS Committee (CNS/COMM/6) (Santo Domingo, Dominican Republic, 30 June-4 July 2008);
- ICAO AGS contract N° 22500187 for MEVA II/REDDIG interconnection; and
- ICAO COCESNA agreement for MEVA II / REDDIG interconnection (RLA/09/901 project).

1. Background

1.1 The action plan for MEVA II / REDDIG interconnection was elaborated during the fourth MEVA II / REDDIG coordination meeting (MR/4) held in Lima, Peru, from 7 to 9 March 2007.

1.2 GREPECAS/14 meeting formulated Conclusion 14/52 - ***Revisión para la adopción del memorando de entendimiento y ejecución del plan de acción para la interconexión MEVA II/REDDIG*** to urge States/Territories/International Organizations members of the MEVA II VSAT network and of the REDDIG organization to approve and carry out the tasks indicated in the Action Plan.

1.3 The fifth meeting of the MEVA II / REDDIG coordination meeting (MR/5), held in Mexico City from 3 to 5 October 2007, updated the Action Plan for MEVA II / REDDIG interconnection on the basis of activities already carried out, such as the RFP elaboration process, the review of the MoU by the members of the MEVA II and REDDIG members, and the replies presented to the RFP by the MEVA II Service Provider and the REDDIG Administration.

1.4 During the sixth meeting of the MEVA II / REDDIG coordination meeting (MR/6) held in Lima, Peru, from 7 to 8 May 2008, and in view of the delays in the approval of the contract between ICAO and the MEVA II Service Provider, the new action plan was amended, formulating Conclusion MR 6/03 - ***Agilización de los procesos de revisión y firma del contrato del Proveedor MEVA II y el de licitación pública para la adquisición del equipamiento necesario para la interconexión MEVA II/REDDIG*** with the aim of speeding the contract approval process between ICAO and the MEVA II Service Provider, as well as the purchasing of the equipment for MEVA II / REDDIG interconnection.

2. Analysis

2.1 Following is a description of the activities carried out for MEVA II / REDDIG interconnection, as follow up to its action plan. The activities described refer to the status of the contract between ICAO and the MEVA II Service Provider, the provision of the equipment to be installed at the REDDIG nodes, the agreement between AGS and the MEVA II members, related with MEVA II / REDDIG interconnection, the agreement between ICAO and COCESNA for MEVA II / REDDIG interconnection (RLA/09/901 project), the naming of focal points, the activities to carry out, and the amendment to the MEVA II / REDDIG action plan.

Status of the contract between ICAO and the MEVA II Service Provider

2.2 Contract No. 22500187 between ICAO and Americom Government Services, Inc. (AGS), the MEVA II Service Provider, for the interconnection of the MEVA II and REDDIG satellite telecommunications networks, was signed on 25 March 2009.

2.3 The contract covers all activities related with MEVA II / REDDIG interconnection at the Bogota and Caracas REDDIG nodes, and the voice and data recurrent services for access to MEVA II network by Brazil, Colombia, Peru and Venezuela.

2.4 The contract has a one year duration and the States/Territories/International Organization members of MEVA II and REDDIG will decide on a further one year or more extension, without exceeding nine years after the initial one-year rental period.

2.5 The prices specified in the contract for recurrent voice and data services will remain invariable for **120** months, as of the interconnection services activation date.

2.6 AGS will be responsible for carrying out the following tasks:

- a) On site inspection of the Bogota and Caracas REDDIG node;
- b) Installation of equipment necessary for interconnection at Bogota and Caracas;
- c) Integration of MEVA II / REDDIG networks; and
- d) Activation and operation of the services programmed in the interconnection.

2.7 The voice and data services considered in the contract between ICAO and AGS only take into account the requirements of the Brazil, Colombia, Peru and Venezuela REDDIG nodes.

2.8 AGS optionally offers a basic training when the installers are working at the sites. The training will have a four-hour duration and will provide the corresponding training material. In the case of requiring on-site training, same should be requested ten days before the programming of the on-site installation. The cost of the course is of US\$1,306.25 per site and includes the training of a maximum of five people. The estimated dates of on-site installations are in **Appendix E** to this working paper.

2.9 The on site acceptance tests (SAT) will verify that the voice and data services scheduled at the Bogota and Caracas nodes are working correctly in a totally operational environment. In addition, the SAT will verify that all equipment programmed for MEVA II / REDDIG interconnection at the REDDIG nodes involved have been installed, and that all documentation, maps and diagrammes have been delivered to the REDDIG nodes involved. **Appendix A** to this working paper presents an action plan presented by AGS, which includes not only activities related to the REDDIG nodes, but also to the MEVA II nodes. This document was presented as attachment to the ICAO and AGS contract N° 22500187.

Provision of equipment to be installed at the REDDIG nodes

2.10 The contract signed between AGS and ICAO does not take into consideration the list of equipment to be installed at the REDDIG nodes involved in the interconnection (Bogotá, Caracas and Guayaquil). The ICAO technical cooperation purchasing section made a bidding for their acquisition. **Appendix B** to this working paper presents a list of the equipment and cards purchased by ICAO. This list was presented during MR/6 meeting and was, thereafter, reviewed by the REDDIG Administration.

2.11 To date, MEMOTEC equipment cards, **combiners/dividers** and the RF amplifiers have been purchased. The cards and equipment acquired by Venezuela and Colombia were sent to AGS for their homologation, as decided during the fifth MEVA II / REDDIG coordination meeting (MR/5). The card corresponding to Ecuador was sent via DHL. The MODEM VIASAT 2100 equipment for Colombia and Venezuela have not been purchased yet, as there is no availability at the manufacturer, since this model has stopped production. This equipment is being searched for through other providers. AGS is analyzing the compatibility of the new modem model with the currently installed at the MEVA II network.

Agreements between AGS and the MEVA II members as regards MEVA II / REDDIG interconnection

2.12 AGS will establish individual agreements with the following MEVA II members involved in the MEVA II / REDDIG interconnection: Aruba, Curacao, Jamaica, Panamá and United States. The agreements include the purchasing and installation of the equipment necessary for the interconnection, as well as the voice and data recurrent services interconnection costs. The AGS reply to the technical proposal requirements and costs (RFP) for MEVA II / REDDIG interconnection, prepared by the MEVA II and REDDIG members and examined during MR/6 meeting presents, among other aspects, the list of equipment and voice and data services recurrent costs at the MEVA II nodes of the above indicated States. **Appendix C** to this working paper presents the revised reply of AGS as regards the RFP.

Agreement between ICAO and COCESNA for MEVA II / REDDIG interconnection (RLA/09/901 project)

2.13 For the interconnection and operation of the COCESNA MEVA II node with REDDIG, RLA/09/901 technical cooperation project was drafted between ICAO and COCESNA, which contains technical, of service and economical aspects for the interconnection.

2.14 The project for the interconnection at the COCESNA node takes into consideration:

- a) Provision of equipment for the interconnection, consisting in a Linkway 2100 modem with AC feeding source, a serial ground interface with frame relay protocol, a V.35 cable, two L band combiners/dividers, and a lot of coaxial cable, connectors and adaptors;
- b) equipment installation at the node;
- c) line-up satellite tests;
- d) configuration and operation of the COCESNA/REDDIG node; and
- e) interconnection maintenance service, which comprises preventive reporting to the nodes of any anomaly detected by the NCC, the reception of calls from the nodes, troubleshooting procedures, operational tests, necessary coordinations and tests with the rest of the counterpart nodes with the objective of keeping operational the node requiring support.

2.15 The project specifies that, for the services maintenance, the REDDIG administration will provide the COCESNA/REDDIG node, under the 24X x 365D modality, the **following** services and facilities during the whole contract period. It is important to mention that the services and facilities that the COCESNA/REDDIG node will count with are those currently received by all REDDIG member States.

2.16 The project is still under review, and it is expected that same be signed at the end of May 2009.

2.17 The REDDIG Administration has prepared a Schedule of activities for the interconnection of the COCESNA MEVA II node with REDDIG, which is presented in **Appendix D** to this working paper.

Nomination of focal points and activities to carry out

2.18 MR/6 meeting presented a list of people who will act as focal points for the coordination of MEVA II / REDDIG interconnection activities, presented in **Appendix E** to this paper.

2.19 MEVA II / REDDIG members should update the names, as well as the data corresponding to the focal points, during MR/7 meeting. The focal points will be in charge of coordinating access of the installers to the sites, as well as authorizing the activities relevant to the installation of the equipment for the interconnection. In addition, they will inform the respective ICAO Regional Offices of any adverse situation foreseen for the interconnection.

Amendment to the action plan for MEVA II / REDDIG interconnection

2.20 Taking into account the action plan formulated by AGS, as well as by the REDDIG Administration, the action plan for MEVA II / REDDIG presented at MR/6 meeting was updated. **Appendix F** to this working paper presents the amended action plan.

3. Suggested Action

3.1 The Meeting is invited to:

- a) Take note of the information provided;
- b) Analyze the agreements between ICAO/MEVA II Service Provider, ICAO/COCESNA and the arrangements between the MEVA II Service Provider and its members for MEVA II / REDDIG interconnection, specified in section 2 of this working paper;
- c) Analyze the implementation plans presented by AGS and the REDDIG Administration, presented in Appendices A and D to this working paper;
- d) Update the list of focal points of the MEVA II and REDDIG member States in charge of local coordination for the interconnection, presented in Appendix E to this paper, and
- e) Analyze the action plan for MEVA II / REDDIG implementation presented in Appendix F to this working paper.



AMERICOM GOVERNMENT SERVICES

MEVA REDDIG Implementation Plan

DOCUMENT # MVR-PLN-IMP-001-U
REV 0

Approvals

NAME	TITLE
Matthew Toney	Program Manager
SIGNATURE	DATE

NAME	TITLE
SIGNATURE	DATE

NAME	TITLE
SIGNATURE	DATE

NAME	TITLE
SIGNATURE	DATE

NAME	TITLE
SIGNATURE	DATE

Client Acceptance

☐

ACCEPTED

☐

ACCEPTED WITH CHANGES

NAME	TITLE
SIGNATURE	DATE



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1.0 Introduction

1.1 Executive Summary

The REDDIG and MEVA II networks both provide communications critical to air traffic safety in the South American, Caribbean, and Central American operating regions. Each member state, brought together by the International Civil Aviation Organization (ICAO), is networked to provide voice (switched, hotline, and administrative) and data (flight plans) that are used to help ensure the safety of thousands of commercial flights each year. Currently, these two networks are separate and cannot be used to inter-communicate as flights pass between the Caribbean and Central American region and the South American region. Although the two networks are currently separate entities, they are designed so that an individual node may be added into either network with additional hardware and configuration. MEVA II and REDDIG members defined the requirement for the interconnection of circuits between designated MEVA II nodes and designated nodes in the REDDIG VSAT network.

The AGS MEVA - REDDIG Interconnection solution minimizes the amount of integration necessary to accomplish this goal by using the same frame relay device that breaks out the individual voice or data circuit required for both networks. Our technical solution, which places particular emphasis on the availability and reliability performance factors, is designed under the following premises:

REDDIG and MEVA II VSAT Interconnection Network will both operate under a full-mesh network topology, using TDMA/Frame Relay satellite access, employing a IS-IR satellite transponder with a beam directed over United States /Latin America, C-Band operational frequencies and colinear vertical polarization.

Installation of MEVA II compatible modems in the REDDIG nodes in Bogotá, Colombia and Caracas, Venezuela, and a REDDIG compatible modem in the MEVA II node in COCESNA using the existing FRADS will allow communications from any MEVA II site to Bogotá and Caracas and from any REDDIG site to COCESNA.

For all new equipment to meet the service requirements of our solution, AGS will use only commercial-off-the-shelf (COTS) equipment and/or software from reputable manufacturers and suppliers.

Our design for the MEVA II / REDDIG Interconnection solution is modular and technologically upgradeable, state of the art, compatible with existing modules in the existing VSAT nodes, thereby permitting a



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high degree of flexibility for implementing future changes in communications services when requested to do so by ICAO.

1.2 Plan Introduction

1.2.1 Purpose

The purpose of the Implementation Plan is to describe the organizational resources and management controls to be employed to meet the cost, performance, and schedule requirements for the MEVA REDDIG implementation.

1.2.2 Assumptions and Constraints

This effort is to be carried out IAW Contract No. 22500187 for the Provision of the Interconnection of the MEVA II and REDDIG Satellite Telecommunications Network.

1.2.3 Scope and Objectives (Program Deliverables)

AGS is tasked with the successful interconnect of the Bogota and Caracas REDDIG sites to the MEVA II network. Via separate service order modifications with applicable MEVA II sites, AGS will be tasked to implement components necessary to support the interconnect. AGS will fulfill all requirements set forth in Contract No. 22500187 for the Provision of the Interconnection of the MEVA II and REDDIG Satellite Telecommunications Network.

2.0 References

Contract No. 22500187 for the Provision of the Interconnection of the MEVA II and REDDIG Satellite Telecommunications Network.

MEVA II Operations and Maintenance Plan

3.0 Program Organization

3.1 AGS Program Team

Name	Phone	Mobile	E-mail	Role
Matthew Toney	301-797-5042	717-977-5867	Matthew.toney@americom-gs.com	Program Manager
Devaraj Sahu	703 610-0986	301-728-2107	devaraj.sahu@americom-gs.com	Systems Engineer
Ron Teske	410-549-4314	410-382-3846	Ron.teske@americom-gs.com	Operations Manager



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David Benning	703 610-0908		David.benning@americom-gs.com	Sales Director
Angie Steever	703-610-1020		Angela.Steever@americom-gs.com	Contracts / Legal
Stacey Elwood	301-992-2992		Stacey.elwood@americom-gs.com	Contracts Manager
David Jackson	703 610-1026		david.jackson@americom-gs.com	Program Sponsor – AGS COO

Table 1 – AGS Program Team

3.2 Customer Team

Name	Phone	Mobile	E-mail	Role

Table 2 – Customer Team

3.3 Key Vendors / Subcontractors

Name	Phone	Mobile	E-mail	Role
C-Systems	321-636-7588	321-591-2654	lloyd.brownhill@c-systemsinc.com	Installation Contractor

Table 3 – Key Vendors / Subcontractors

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3.4 AGS Escalation List / Organization Chart

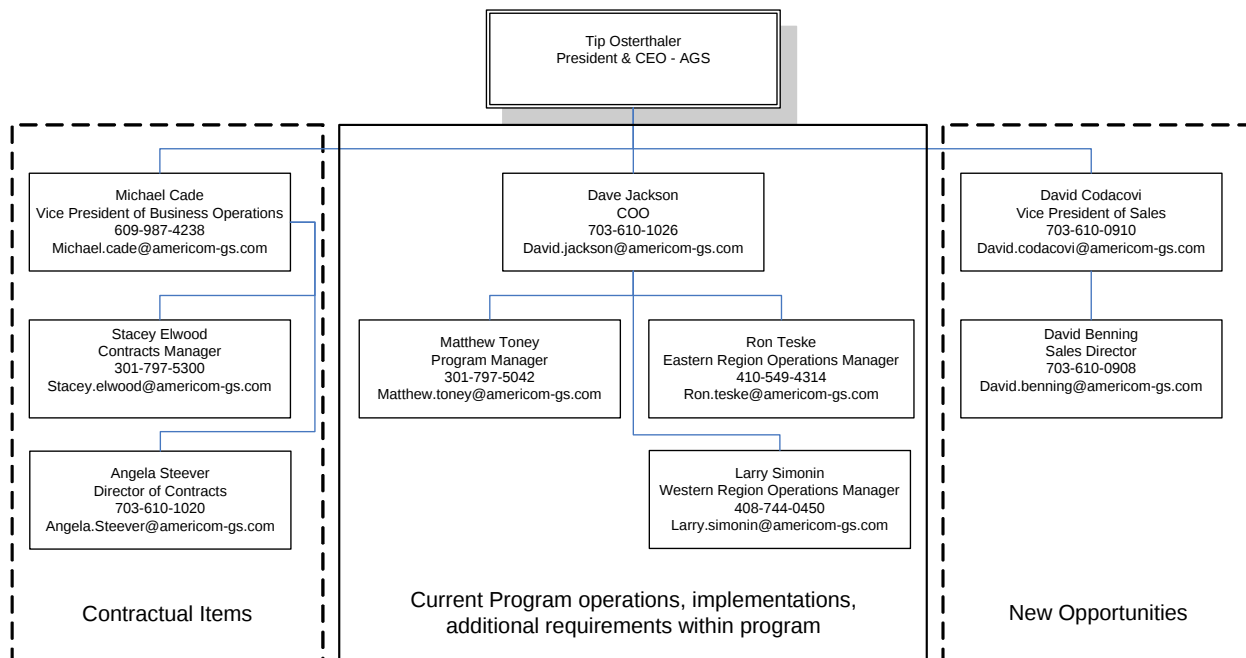


Figure 1 – AGS Escalation List

3.5 Roles and Responsibilities

3.5.1 Program Manager (PM)

The Program manager will:

Be the primary point of contact for AGS and the customer with regards to product or service delivery

Ensure that team members know their responsibilities

Track team member performance

Prepare a detailed implementation plan, and obtain agreement to that plan from the AGS and Customer management teams

Maintain a Program binder containing all pertinent Program data

Report Program status to management



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Oversee the effort to finalize a Statement of Work that is acceptable to AGS and the customer

The Program manager's authority include:
Authority to direct Program team

Access to customer representatives on all matters related to this effort

Access to the AGS management team on all matters related to this effort

Control of the Program budget

Access to financial reports related to Program expenditures, including time and attendance

Renegotiation with the AGS management team to delegate responsibility and authority to functional organization

3.5.2 Program Engineer (PE)

The Program Engineer will:

Review all technical requirements listed in the customer SOW

Oversee the technical design to ensure requirements are met

Provide technical oversight with regards to subcontract work

Perform duties as described in the Subcontract Management Plan

AGS MEVA REDDIG Subject Matter Expert (SME)

With the PM, develop operating procedures for the Network Operations Center and AGS Operations to support ongoing operations of the MEVA REDDIG network

3.5.3 Field Operations

Field Operations staff will be used to implement and test the components to be installed in the existing MEVA II sites.

3.5.4 Configuration Management (CM) & Process Lead

The Configuration Manager is responsible for formal releases of documentation, revision level control, and management of Functional



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Configuration Audit (FCA) and Physical Configuration Audit (PCA). The Process Lead is responsible for ensuring the proper processes are being followed as described in all project plans and procedures, and that the correct metrics are being gathered, analyzed, monitored and adjusted when needed.

3.5.5 Quality Assurance (QA) Manager

The Quality Assurance Manager supports all phases of the program in accordance with AGS processes and procedures. These activities include performing reviews and audits as required by the QA Plan.

3.5.6 Project Control (PC)

The Project Control representative (or project controller – PC) evaluates applicability of all project control related procedures, as required by AGS Policies and Procedures. The PC works with the PM to assess the overall performance, identifies trouble areas and helps with the development of corrective actions, conducts Cost Account Management (CAM) reviews to develop Estimate to Complete (ETCs) and assess Earned Value, prepares inputs for, and participates in, the monthly PMRs and assesses financial metrics based on the Metrics Plan to be include in the monthly PMR.

3.5.7 Contracts Manager

The Contracts Manager is responsible for the day-to-day contract administration of the program and will conduct any proposal preparation and/or contract negotiation as a result of any changes to the effort. The Contracts Manager will conduct continual reviews to ensure that all terms and conditions are being met and that the contract is in accordance with legal requirements, customer specifications and government regulations. The contracts representative interfaces with the Program Manager and technical staff and is responsible for preparing and disseminating information regarding contract status, compliance, modification, and negotiation to the appropriate personnel working the project. In addition, the contracts representative participates in internal and external program reviews. The Contracts Manager is the primary interface with the Government Contract Specialist and/or Contracting Officer.

3.5.8 Procurement Manager

The Procurement Manager is responsible for project material purchases and negotiation of subcontracts. The procurement manager works with the Program Manager and technical lead to monitor subcontractor



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performance to ensure compliance with subcontract requirements. The procurement manager reviews, approves and processes all invoices received from suppliers or subcontractors. The procurement manager is responsible for negotiations of price, schedule and terms and conditions with each subcontractor.

3.5.9 Subcontractors

The following section identifies the key roles performed by the subcontractors on the MEVA REDDIG Interconnect implementation.

C-Systems

C-Systems will be tasked to perform site surveys, and installation and test services in Bogota, Colombia and Caracas, Venezuela. Their primary point of contact will be considered a member of the AGS core Program Team.

4.0 Managerial Process Plans

4.1 Plan of Action and Milestones (POA&M)

4.1.1 Schedule

The AGS Program Team has used data collected from the MEVA II implementation effort, vendor inputs, and industry knowledge to develop a comprehensive estimation plan that captures the scope, cost, and time related to successfully implement the MEVA REDDIG Interconnect. An MS Project Schedule is located in APPENDIX A of this plan.

4.1.2 Staffing Plan

Based on the tasks and timeframe identified in the MS Project Schedule, AGS has determined the internal staffing necessary to successfully complete the program. Their duties and responsibilities are detailed in the Roles and Responsibilities section of this plan. Other AGS staff duties are also detailed in this section and will be used as necessary.

4.1.3 Program Staff Training Plan

From the MEVA II network implementation, AGS has staff trained in the management and maintenance of the network equipment used. The AGS PM ensures that Network Operations Center staff have the training and documentation needed to support the customer.



4.2 Work Plan

4.2.1 Work Activities

Work activities are detailed in APPENDIX A of this plan.

4.2.2 Schedule Allocation

Schedule Allocation is detailed in APPENDIX A of this plan.

4.2.3 Resource Allocation

Resource Allocation is detailed in APPENDIX A of this plan.

4.3 Control Plan

4.3.1 Requirements control plan

The AGS PM will use a deliverables matrix to keep track of all requirements and regularly track and update the MS Project Schedule tasks to ensure requirements are being completed. These updates will be conducted prior to each weekly status report submission.

4.3.2 Schedule control plan

The AGS PM will track and update the MS Project Schedule on a regular basis to ensure accuracy. The PM will use the weekly status report to notify all parties of changes to the schedule and will issue a change request form that will analyze the impact of changes in scope and schedule. The Change Request Form and Weekly Report template are located in APPENDIX B of this plan.

4.3.3 Budget control plan

The AGS PM and the AGS Project Controller will conduct regular reviews to ensure budget parameters are kept intact. The PM will review the budget each time a purchase requisition is entered or an invoice is received, and will conduct a budget review with the project controller prior to a monthly Program Management Review (PMR).

4.3.4 Reporting plan

The following list details reports and meetings that will take place to ensure all stakeholders are kept informed of program status, upcoming events, and issues encountered. The AGS PM will be responsible for ensuring reports are completed accurately and on time, and meeting are conducted with agendas, and action items, and meeting minutes.



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REPORT / MEETING	WHEN	WHO
Kickoff Meeting	Startup	AGS Program Team Customer Team AGS Management
Closedown Meeting	Upon Customer Acceptance	AGS Program Team Customer Team AGS Management
Status Report	Weekly	Sent to all
PMR	Monthly	AGS Program Team AGS Management
Other Meetings	As Necessary	TBD

Table 4 – Report and Meeting Plan

4.4 Plan Closeout

AGS will conduct the program closeout as per the MS Project Schedule located in APPENDIX A of this plan.

5.0 Supporting Plans

5.1 Risk Management Plan

The purpose of the Risk Management Plan is to identify items that may impact AGS' ability to deliver with regards to scope, time, or budget for this program. Once the risk is identified it is classified into categories: Threats or Opportunities.

Threats are dealt with in the following ways:

Accept – Preparing for and dealing with a risk's consequences, either actively (contingency) or passively (doing nothing)

Mitigate – Reducing the probability and/or consequences of a threat to an acceptable threshold

- Transfer – Shifting a threat's consequence to a third party
- Avoid – Eliminating the threat, usually by eliminating its potential cause

Opportunities are dealt with in the following ways:

Accept – Same as threat response strategy

Enhance – Modify the potential of an opportunity by increasing probability and/or positive impact, and by identifying and maximizing key drivers



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- Exploit – Ensure that the opportunity is realized; eliminate the uncertainty associated with a particular upside risk by making the opportunity definitely happen
- Share – Allocate ownership to a third party who is best able to capture the opportunity

The following table list risks identified for this plan. Risk status will be updated and reported in the weekly status report.



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ID	Description	Probability %	Impact 1-5	Exposure	Impact Horizon	Strategy	Date Recognized	Responsibility
001	Delay in delivery of Equipment to AGS	25	5	1.25	NEAR	MITIGATE – 1) Frequent contact with manufacturers to establish and keep promised delivery dates 2) Prompt ordering of equipment 3) Order long lead items as early as possible 4) Assign additional engineering resources if necessary to make up time during configuration and FAT	4/5/09	ALL
002	Delays in Custom Clearance	45	5	2.25	MID	MITIGATE – 1) AGS to complete all necessary export paperwork in a timely fashion 2) Prompt shipment of equipment 3) AGS to provide each applicable site with full export paperwork 4) Site contact to work to get equipment cleared through Customs	4/5/09	ALL
003	Loss Factor of IFL	20	5	1.00	NEAR	MITIGATE – 1) Perform site survey to determine if IFL adequate 2) If IFL needs to be replaced, provide quote to ICAO / REDDIG as soon as possible after the site survey report is received	8/22/07	AGS

Table 5 – Risk Assessment Worksheet



5.2 Configuration Management Plan

The purpose of this plan is to maintain revision control of plans, templates, technical documentation, and software. Configuration Management shall be carried out in accordance with AGS company policies and procedures. All documents will have a document control number assigned and will be updated and review by the CM Manager each time a revision is made. All stakeholders will be notified of revision changes, and current versions will be made available. The vehicle for notification on the MEVA REDDIG Interconnect implementation will be the weekly status report.

5.3 Subcontractor Management Plan

The purpose of this plan is to provide guidance in the management and oversight of subcontractors in the implementation of the MEVA REDDIG Interconnect

The Program manager will:

Be the primary point of contact between AGS and customer points of contact with regards to product or service delivery

Review and approve Statements of Work to be issued

Review and approve purchase requisitions in SAP

Report subcontractor progress and issues to the AGS Management Team as required.

Review and approve vendor invoices

Be the primary point of contact between AGS and subcontractors, pertaining to delivery schedule, cost, and scope of services and solutions being provided

Develop the Statement of Work to be submitted to the subcontractor for quote / proposal response

Work with the SES AMERICOM Sourcing Manager to add vendors to the SES AMERICOM approved vendor list, if necessary

Coordinate related or dependent activities between subcontractors



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The Program Engineer will:

Be the primary point of contact for between AGS and subcontractors, pertaining to specific technical requirements, questions, and issues

Assist the Subcontracts Program Manager in the development of subcontractor Statements of Work, with regards to technical requirements and test and acceptance criteria

Review and provide recommendations to the AGS Program Manager pertaining to any changes, additions, or deletions of subcontractor scope of work

Enter purchase requisitions for subcontract work

Sign off on test and acceptance results

Statements of work shall be submitted for all subcontract work to be performed. The AGS Program Manager shall retain copies of the following in the Program binder that pertain to subcontractors:

Request for Quotes / Proposals to the vendor

Vendor RFQ / RFP responses

SES AMERICOM Purchase Order

Vendor invoices

5.4 Installation Plan

The Installation Plan is a separate document, and will be submitted at a later date.

5.5 Quality Assurance Plan

The purpose of this plan is to ensure that technical deliverables are met, processes and procedures are adhered to, and any deviation is documented and approved. The following reviews / audits will take place as part of the QA Plan:



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ITEM	WHEN	WHO
Technical Deliverables *Customer Acceptance Sheet signed	Upon Delivery	Program Manager Program Engineer QA Manager Vendor Representative Customer Representative
Configuration Management Audit	Upon Completion and Quarterly	Program Manager CM Manager
Technical Documentation Review	Upon Completion Upon Changes / Updates Periodic Inspection	Program Engineer Engineering Dept Peer Review

Table 6 – QA Review List

5.6 Change Management Plan

The purpose of this plan is to provide guidance in implementing and documenting changes to the scope of work with regards to the MEVA REDDIG Interconnect

The Program manager will be responsible for ensuring any change of scope is documented and approved using the Program Change Request Form. A blank Change Request Form is located in APPENDIX B of this plan. The Program manager will keep a copy of each change request in the Program binder and will be responsible for updating the Program Schedule to reflect the change.

A proposed change will be noted and tied to a corresponding Work Breakdown Structure (WBS) item. AGS will perform an impact analysis in the following areas: technical, budget, schedule, performance, and contract. The AGS approving authority (sponsor) will sign the change request form, which will then be submitted by the customer for review and approval.

Upon customer signoff, the AGS Program Manager will update the Program Schedule accordingly

5.7 Test and Acceptance Plan

The Installation Plan is a separate document, and will be submitted at a later date.

5.8 Process Improvement Plan

As part of Program Closedown, the AGS Program Team will collaborate to complete a Lessons Learned document that reviews all aspects of the program. A template of the Lessons Learned Document is located



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in APPENDIX B of this plan. The completed document will be submitted for review by AGS senior management and the Quality Assurance Manager.

6.0 APPENDICES

6.1 APPENDIX A – MS Project Schedule

6.2 APPENDIX B – Templates



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ID	i	% Complete	Task Name	Duration	Start	Finish	Predecessors
1		4%	MEVA / REDDIG INTERCONNECT	110.75 days	Wed 3/25/09	Wed 8/26/09	
2		0%	CONTRACTS	25 days	Wed 3/25/09	Tue 4/28/09	
3	✓	100%	ICAO Contract Award	0 days	Wed 3/25/09	Wed 3/25/09	
4		0%	MEVA II Member State Contracts	10 days	Wed 4/15/09	Tue 4/28/09	
5		0%	Tegucigalpa, Honduras (COCESNA)	10 days	Wed 4/15/09	Tue 4/28/09	
8		0%	Miami, FL	10 days	Wed 4/15/09	Tue 4/28/09	
11		0%	San Juan, Puerto Rico	10 days	Wed 4/15/09	Tue 4/28/09	
14		0%	Curacao	10 days	Wed 4/15/09	Tue 4/28/09	
17		0%	Kingston, Jamaica	10 days	Wed 4/15/09	Tue 4/28/09	
20		0%	Panama City, Panama	10 days	Wed 4/15/09	Tue 4/28/09	
23		0%	Oranjestad, Aruba	10 days	Wed 4/15/09	Tue 4/28/09	
26	✓	100%	PROGRAM INITIATION	6 days	Thu 3/26/09	Thu 4/2/09	
27	✓	100%	Reviews	6 days	Thu 3/26/09	Thu 4/2/09	3
28	✓	100%	Technical Review	6 days	Thu 3/26/09	Thu 4/2/09	
29	✓	100%	Review RFP and Proposal	1 day	Thu 3/26/09	Thu 3/26/09	
30	✓	100%	Generate Technical Requirements Document (TRD)	0 days	Thu 4/2/09	Thu 4/2/09	29FS+1 wk
31		9%	PROGRAM PLANNING	45 days	Wed 3/25/09	Tue 5/26/09	
32		62%	Implementation Plan Review and Update	14 days	Thu 3/26/09	Tue 4/14/09	
33	✓	100%	Plan review and update	8 days	Thu 3/26/09	Mon 4/6/09	3FS+1 day
34	✓	100%	Implementation Plan Complete	0 days	Mon 4/6/09	Mon 4/6/09	33
35	✓	100%	AGS Management approval of Program Plan	0 days	Tue 4/7/09	Tue 4/7/09	34FS+1 day
36		0%	Customer review of Program Plan	5 days	Wed 4/8/09	Tue 4/14/09	35
37		0%	Customer approval of Program Plan	0 days	Tue 4/14/09	Tue 4/14/09	36
38		0%	Engineering	15 days	Wed 4/22/09	Tue 5/12/09	37FS+1 wk
45		0%	Administrative	0 days	Wed 4/15/09	Wed 4/15/09	
48		0%	Procurement	45 days	Wed 3/25/09	Tue 5/26/09	
49		0%	Shipment of CFE	8 wks	Wed 3/25/09	Tue 5/19/09	3
50		0%	Memotec	5.25 days	Thu 4/16/09	Thu 4/23/09	
54		0%	Integration Materials	2 wks	Wed 5/13/09	Tue 5/26/09	56
55		0%	PROGRAM EXECUTION	70.75 days	Wed 4/29/09	Wed 8/5/09	
56		0%	Site Survey	10 days	Wed 4/29/09	Tue 5/12/09	37FS+2 wks
57		0%	REDDIG Sites	10 days	Wed 4/29/09	Tue 5/12/09	
58		0%	Caracas, Venezuela	7 days	Wed 4/29/09	Thu 5/7/09	
61		0%	Bogota, Colombia	7 days	Mon 5/4/09	Tue 5/12/09	37FS+2 wks,59FS
64		0%	System Manufacturing and Integration	6.25 days	Tue 5/19/09	Thu 5/28/09	
65		0%	Receive Major Equipment	1.25 days	Tue 5/19/09	Thu 5/21/09	
70		0%	Equipment Configuration	5 days	Thu 5/21/09	Thu 5/28/09	66,68
72		0%	System Testing	6 days	Thu 5/28/09	Fri 6/5/09	64
76		0%	Shipping	23 days	Thu 5/21/09	Tue 6/23/09	
102		0%	Installation	26.5 days	Tue 6/16/09	Wed 7/22/09	
103		0%	REDDIG Sites	6.5 days	Tue 7/14/09	Wed 7/22/09	
104		0%	Caracas, Venezuela	2.75 days	Tue 7/14/09	Thu 7/16/09	
105		0%	AGS Installer Arrive	0 days	Tue 7/14/09	Tue 7/14/09	83FS+3 wks

Project: MEVA REDDIG INTERCONN
Date: Thu 4/9/09

Task

Split

Progress

Milestone

Summary

Project Summary

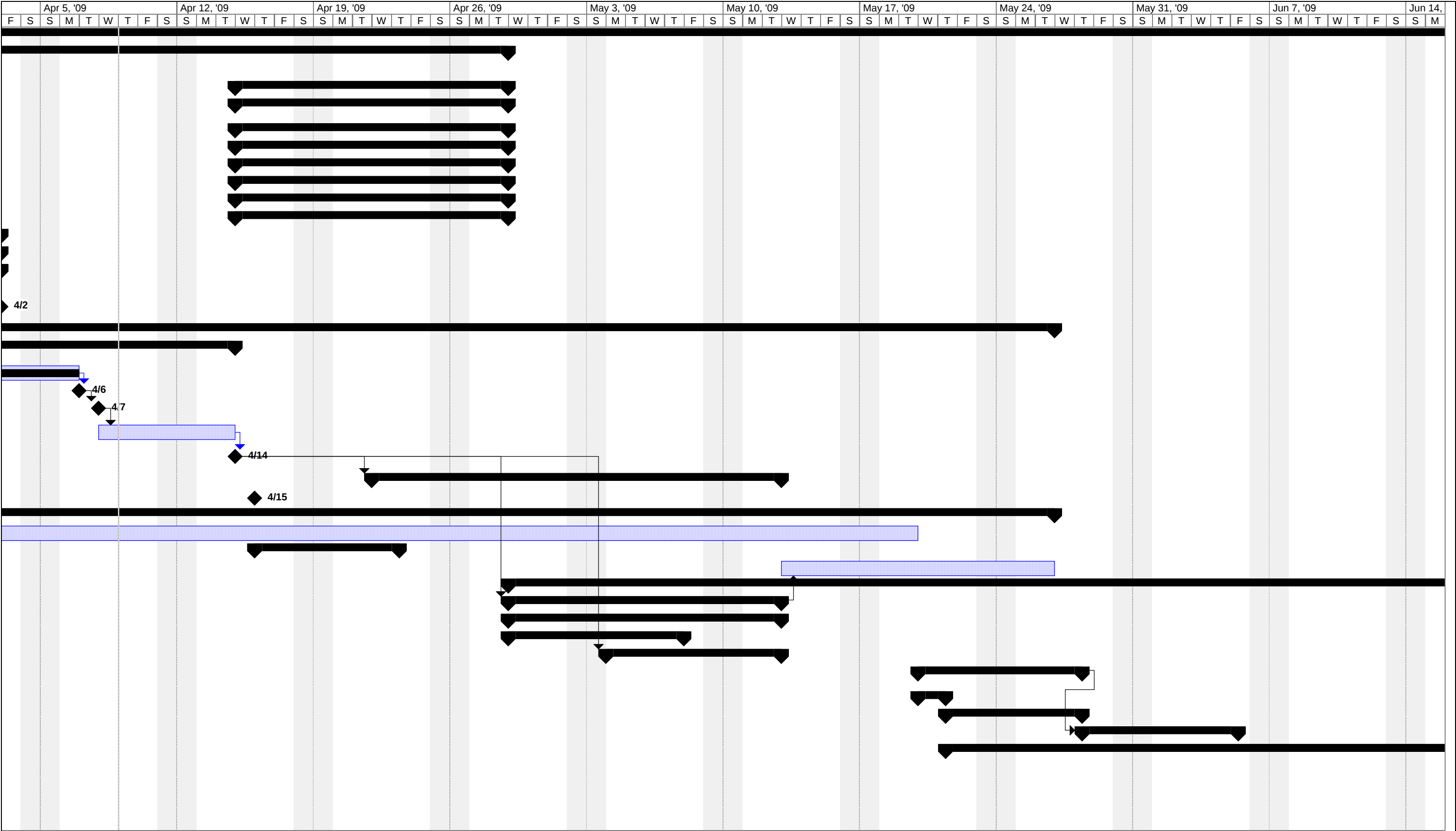
External Tasks

External Milestone

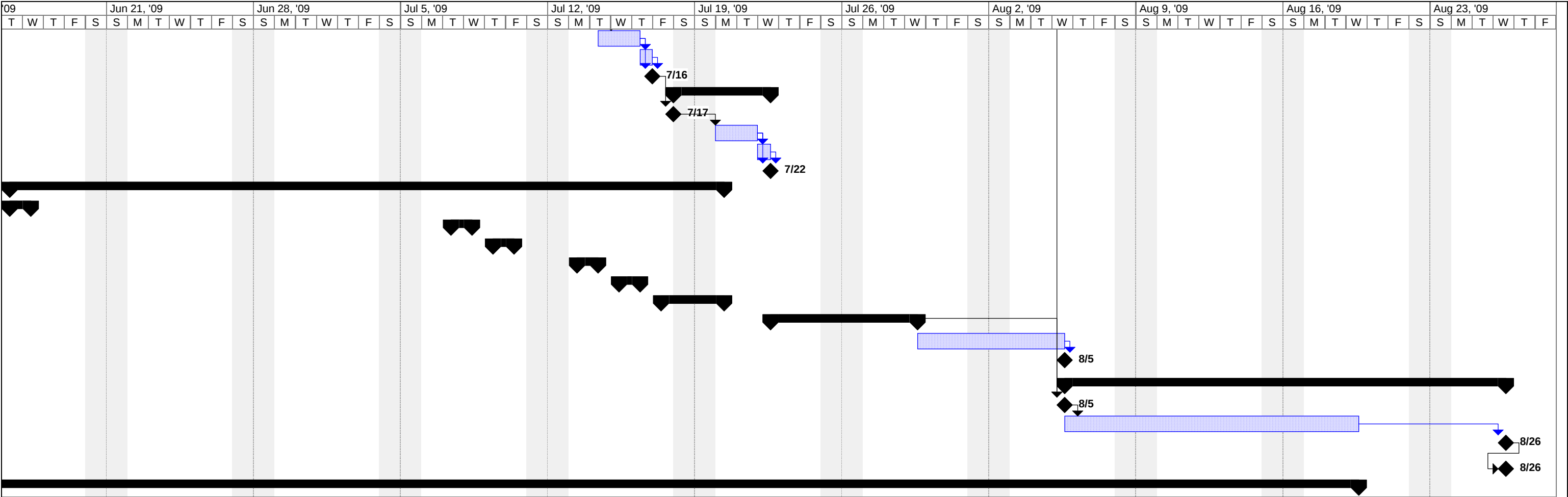
Deadline

Page 1

ID		% Complete	Task Name	Duration	Start	Finish	Predecessors	'09					Mar 1, '09					Mar 8, '09					Mar 15, '09					Mar 22, '09					Mar 29, '09				
								T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W
106		0%	Installation	2 days	Tue 7/14/09	Thu 7/16/09	105																														
107		0%	Downtime / Interconnect	6 hrs	Thu 7/16/09	Thu 7/16/09	106																														
108		0%	Installation Complete	0 days	Thu 7/16/09	Thu 7/16/09	106,107																														
109		0%	Bogota, Colombia	2.75 days	Fri 7/17/09	Wed 7/22/09																															
110		0%	AGS Installer Arrive	0 days	Fri 7/17/09	Fri 7/17/09	86FS+2 wks,108F																														
111		0%	Installation	2 days	Mon 7/20/09	Tue 7/21/09	110																														
112		0%	Downtime / Interconnect	6 hrs	Wed 7/22/09	Wed 7/22/09	111																														
113		0%	Installation Complete	0 days	Wed 7/22/09	Wed 7/22/09	111,112																														
114		0%	MEVA II Sites	24 days	Tue 6/16/09	Mon 7/20/09																															
115		0%	Miami, FL	1 day	Tue 6/16/09	Wed 6/17/09																															
119		0%	San Juan, Puerto Rico	1 day	Tue 7/7/09	Wed 7/8/09																															
123		0%	Kingston, Jamaica	1 day	Thu 7/9/09	Fri 7/10/09																															
127		0%	Curacao	1 day	Mon 7/13/09	Tue 7/14/09																															
131		0%	Oranjestad, Aruba	1 day	Wed 7/15/09	Thu 7/16/09																															
135		0%	Panama City, Panama	1 day	Fri 7/17/09	Mon 7/20/09																															
139		0%	Documentation	5 days	Wed 7/22/09	Wed 7/29/09																															
142		0%	AGS Compile Documentation Package	1 wk	Wed 7/29/09	Wed 8/5/09	141																														
143		0%	Submit Documentation Package to Customer	0 days	Wed 8/5/09	Wed 8/5/09	142																														
144		0%	PROJECT CLOSEDOWN	15 days	Wed 8/5/09	Wed 8/26/09																															
145		0%	Customer Acceptance Form Signed	0 days	Wed 8/5/09	Wed 8/5/09	139FS+1 wk,102																														
146		0%	Handoff to Operations	2 wks	Wed 8/5/09	Wed 8/19/09	145																														
147		0%	Implementation Closed out of Deltek and Axapta	0 days	Wed 8/26/09	Wed 8/26/09	146FS+1 wk																														
148		0%	Implementation Close down Complete	0 days	Wed 8/26/09	Wed 8/26/09	147																														
149		0%	REPORTS AND MEETINGS	85.75 days	Tue 4/21/09	Wed 8/19/09																															



[illegible]



Change Request

Program Information

Program Name MEVA REDDIG INTERCONNECT	SAP #	Customer ICAO / MEVA II / REDDIG
Prepared By Matthew Toney	Phone # 301-797-5042	E-Mail Matthew.toney@americom-gs.com
Date Prepared		

Proposed Change

Baseline Description
Change Description
Rationale

Modified Activities

WBS NO.	Activity Name / Title
WBS NO.	Activity Name / Title
WBS NO.	Activity Name / Title
Other References	

Impact Review

Meeting Date
Technical Impact
Budget Impact
Schedule Impact
Performance Impact
Contract Impact

AGS Approvals

Name (Print)	Signature	Date
Telephone	Fax	E-Mail

Customer Decision

	Approved	Comments
	Tabled	
	Disapproved	

Customer Signature

Name (Print)	Signature	Date
Telephone	Fax	E-Mail



Lessons Learned Document

Program Information

Program Name MEVA REDDIG INTERCONNECT	SAP #	Customer ICAO / MEVA II / REDDIG
Prepared By Matthew Toney	Phone # 301-797-5042	E-Mail Matthew.toney@americom-gs.com
Date Prepared		

Summary

Program Background
Learning Highlights
Recommendations Summary

Technical Review

Program Experience
Recommended Process Improvements
Proposed Tool Modifications or Improvements

Administrative Review

Program Experience
Recommended Process Improvements
Proposed Tool Modifications or Improvements

Lessons Learned Document

Program Information

Program Name MEVA REDDIG INTERCONNECT	SAP #	Customer ICAO / MEVA II / REDDIG
Prepared By Matthew Toney	Phone # 301-797-5042	E-Mail Matthew.toney@americom-gs.com
Date Prepared		

Contract Management Review

Program Experience
Recommended Process Improvements
Proposed Tool Modifications or Improvements

Risk Management Review

Program Experience
Recommended Process Improvements
Proposed Tool Modifications or Improvements

Financial Management Review

Program Experience
Recommended Process Improvements
Proposed Tool Modifications or Improvements

Lessons Learned Document

Program Information

Program Name MEVA REDDIG INTERCONNECT	SAP #	Customer ICAO / MEVA II / REDDIG
Prepared By Matthew Toney	Phone # 301-797-5042	E-Mail Matthew.toney@americom-gs.com
Date Prepared		

Customer Relationship Management

Program Experience
Recommended Process Improvements
Proposed Tool Modifications or Improvements

Team Relationship Management

Program Experience
Recommended Process Improvements
Proposed Tool Modifications or Improvements

APENDICE B / APPENDIX B

LISTADO DE EQUIPAMIENTO PARA LA INTERCONEXION MEVAII / REDDIG
LIST OF EQUIPMENT FOR MEVA II / REDDIG INTERCONNECTION

Location	Additional Equipment/Parts Needed	Quantity
COCESNA	Linkway 2100 with frame-relay card and V.35 cable	1
	2-port L-band Splitter	2
	2-port L-band Combiner	2
Curacao	Memotec DAV Card	1
	Memotec FXS SLIM LID	1
	Memotec V.24 Card	1
Caracas	Linkway 2100 with frame-relay card and V.35 cable	1
	Memotec DAV Card (2 for MUX A, 2 for MUX B)	4
	Memotec FXS SLIM LID (3 for MUX A, 3 for MUX B)	6
	2-port L-band Splitter	3
	2-port L-band Combiner	3
	Paradise 75W BUC	2
Bogota	Linkway 2100 with frame-relay card and V.35 cable	1
	Memotec V.35H Card	1
	Memotec E1 DIM (1) for MPS A, (1) for MPS B to be installed in slot 2	2
	2-port L-band Splitter	3
	2-port L-band Combiner	3
Jamaica	Memotec DAV Card	1
	Memotec FXS SLIM LID	1
Miami	Memotec 960e Chassis	1
	Memotec 960e CPU	1
	Memotec 960e Power Supply	1
	Universal I/O	1
Panama	Memotec DAV Card	1
	Memotec FXS SLIM LID	2
	Memotec Multi I/O card	1
San Juan	Memotec DAV Card	1
	Memotec FXS SLIM LID	1
	Memotec Multi I/O card	1
Ecuador	E-1 Daughter Card for Memotec A and Memotec B	2

APENDICE C / APPENDIX C

TO BE DELIVERED BY AGS DURING THE MEETING

SERÁ ENTREGADO POR AGS DURANTE LA REUNIÓN

APPENDIX D

INTERNATIONAL CIVIL AVIATION ORGANIZATION

Interconnection of the COCESNA MEVA II node to REDDIG

IMPLEMENTATION PROGRAMME

May 2009

CONTENTS

	Page
1. Executive Summary	3
2. References for implementation	3
2.1 RLA/09/901 project	3
2.2 Technical specifications	3
2.3 Services to be provided	4
3. Coordination	5
Focal points	
a) ICAO / REDDIG Administration	
b) COCESNA	
c) AGS	
4. Activities of the COCESNA node activation to REDDIG	6

INTERCONNECTION OF THE COCESNA MEVA II NODE TO REDDIG IMPLEMENTATION PROGRAMME

1. Executive Summary

1.1 On the basis of communications requirements of the COCESNA node for the interconnection of the MEVA II / REDDIG nodes and on the technical specifications indicated in the proposal, the integral solution consists in the provision, installation and test of the equipment, as well as the operation of the COCESNA node in REDDIG, hereon COCESNA/REDDIG node, with the highest service availability, reliability and quality standards to pass through the network.

1.2 The solution presented takes into consideration the maximum use of the equipment currently available at the COCESNA/MEVA II node to optimize investment costs. An additional Linkway 2110 modem will be used with the current RF chain, decision which is backed by the link budget analyses carried out to this effect. In addition, the slots available in the current FRAD equipment to install additional carts to support the COCESNA/REDDIG node communications channels.

1.3 In addition to the two ATS exclusive voice channels, an on-net administrative voice channel will be configured for the carrying out of tasks and maintenance coordinations, with the consequent savings in international long distance calls.

1.4 The installation of the equipment in the node will be carried out in coordination with COCESNA and AGS, with the aim of reducing to a minimum the communications services interruption lapse in the node. The satellite line up tests and the start up of the COCESNA/REDDIG node will be carried out under the coordination and supervision of the REDDIG Centre of Operations.

1.5 The COCESNA/REDDIG node will have the technical facilities as REDDIG has, such as 24X365 technical support from the Manaus, Brazil, Centre of Operations, the network's master reference terminal geographical redundancy, the local redundancy of both Manaus, Brazil, and Ezeiza, Argentina, NCCs and, in the event required, the activation of the alternate Centre of Operations in Ezeiza.

2. References for the implementation

2.1 RLA/09/901 project

Services Management Agreement subscribed between the Corporación Centroamericana de Servicios de Navegación Aérea (COCESNA) and ICAO.

2.2 Technical Specifications

2.2.1 On the basis of the communications requirements of the COCESNA node for the interconnection of the MEVA II / REDDIG Networks, the solution consists in the equipment provision, installation and tests, as well as the operation of the COCESNA MEVA II node in REDDIG, with the highest service availability, reliability and quality standards to pass through the network.

2.2.2 The technical solution is to maximize the use of the equipment currently installed in the COCESNA node, with the additional equipment necessary for the node to operate in REDDIG. The Memotec cards, one V.35H and two DAV with three FXS interfaces will be provided and installed in the COCESNA CX960e equipment, upon request.

2.2.3 In addition to the configuration of the two exclusive ATS voice channels, an on-net administrative voice channel will also be configured, for the carrying out of tasks and maintenance coordinations.

2.2.4 The installation of the equipment in the node will be made in coordination with COCESNA and the MEVA II Service Provider, with the aim of reducing to a minimum the communications services interruption time in the node. The satellite line-up tests and the start-up of the COCESNA/REDDIG node will be carried out under the coordination and supervision of the REDDIG Centre of Operations.

2.2.5 The COCESNA/REDDIG node will have available the technical facilities that the REDDIG counts with, such as 24x365 technical support from the Manaus, Brazil, Centre of Operations, the network's master reference terminal geographical redundancy, the local redundancy of the NCCS in both Manaus, Brazil, and Ezeiza, Argentina, and in the event required, the activation of the alternate Centre of Operations in Ezeiza.

2.2.6 The Communications requirements of the COCESNA node are:

- (1) ATS speech channel at the Bogota, Colombia, control centre; and
- (1) ATS speech channel at the Guayaquil, Ecuador control centre.

2.2.7 The performance expected is to count with all-round free and available channels with a 0.05 (5%) call loss probability at the COCESNA/REDDIG node speech channel traffic flow.

2.3 Services to be provided

2.3.1 The COCESNA/REDDIG node implementation programme will comprise the carrying out of related services until the activation of the COCESNA/REDDIG node, then automatically and transparently passing over to the Operation Service.

Equipment to be provided

- (1) One Linkway 2100 modem with AC feeding source
- (1) One serial ground interface with frame relay protocol
- (1) One V.35 cable
- (2) Two band L combiners/dividers
- (1) One coaxial cable lot, connectors and adaptors

2.3.2 The installation of the equipment will be carried out under the implementation programme, in coordination with COCESNA and the MEVA II service provider, with the aim of reducing to a maximum the interruption of services.

2.3.3 Satellite access and line up tests will be made to the Linkway 2100 modem, together with the current RF chain, with the aim of obtaining the nominal potential of the satellite downlink that REDDIG has contracted.

2.3.4 The administration of REDDIG will provide the COCESNA/REDDIG node, under the 24H x 365D modality, the following services and facilities during the whole period of the contract. It is important to mention that the services and facilities which the COCESNA/REDDIG will count with are the same that all States member of REDDIG receive.

2.3.5 Configuration:

- a) Configuration of the COCESNA/REDDIG node on the basis of the REDDIG NCC data base.
- b) Configuration of the CX-960e Memotec equipment with the functions required for the interconnection.
- c) Configuration of the CX-950 Memotec equipment with the Guayaquil, Bogotá, Manaus and Ezeiza nodes with the functions required for the interconnection, as well as administrative/maintenance purposes.
- d) End to end tests and activation of the COCESNA/REDDIG node.

2.3.6 Operational support:

2.3.6.1 The REDDIG administration has a Centre of Operations in Manaus, Brazil, that provides operational maintenance support to the REDDIG nodes, under a 24H x 365D modality. This support includes, among other main activities, to preventively report the nodes of any anomaly detected by the NCC, to receive calls from the nodes, to carry out troubleshooting procedures, to carry out operational tests, to make necessary coordinations and tests with the counterpart nodes with the objective of keeping operational the node requiring support.

3. **Coordination**

3.1 The REDDIG administration will coordinate all aspects necessary with the COCESNA and AGS Service Provider representatives for the carrying out of the present implementation programme.

3.2 To obtain this objective, the focal points will be the following:

- a) ICAO –SAM Regional Office
Focal Point: Onofrio Smarrelli
CNS Regional Officer – SAM
Place: Lima, Peru
Telephone: 51 1 611-8686
E-mail: os@lima.icao.int

REDDIG Administration - ADM
Focal Point: Luis Alejos
REDDIG Administrator – SAM
Place: Manaus, Brazil
Telephone: +55 92 3652-5714
E-mail: lat@lima.icao.int
- b) COCESNA
Focal Point:
Place:
Telephone:
E-mail:

- c) AGS
Focal Point:
Place:
Telephone:
E-mail:

4. **Activities for the activation of the COCESNA node for REDDIG**

1. Purchasing of equipment and parts
Start: 5 June 2009
Duration: 45 days
Responsible: ICAO TCB
2. On site inspection
Start: 9 July 2009
Duration: 2 days
Responsible: ICAO ADM REDDIG
3. Remittance of equipment and parts
Start: 10 July 2009
Duration: 10 days
Responsible: ICAO TCB
4. Satellite configuration of COCESNA node at REDDIG NCC
Start: 27 July 2009
Duration: 5 days
Responsible: ICAO ADM
5. Configuration of COCESNA CX960e Memotec equipment
Previous action:
 - a) Deliver ICAO ADM the archive (.cxt) with the latest configuration of the CX-960e equipment
 - b) Install 2 DAV+1V.35H with CX960e equipmentTarget date: 24 July 2009
Responsible: AGS
Start: 27 July 2009
Duration: 5 days
Responsible: ADM
6. Configuration of Memotec equipment at SEGU, Guayaquil-Ecuador
Previous action:
 - a) Install 1 DVP2 in each equipmentTarget date: 24 July 2009
Responsible: ICAO ADM
Start: 27 July 2009
Duration: 5 days
Responsible: ICAO ADM

7. Configuration of Memotec equipment at SKED, Bogotá-Colombia
Previous action:
a) Deliver ICAO ADM the archive (.cxt) with the latest SKED configuration, including the circuits with MEVA II
Target date: 24 July 2009
Responsible: AGS
Start: 27 July 2009
Duration: 5 days
Responsible: ADM
8. Configuration of Memotec equipment at SAEZ and SBMN
Start: 27 July 2009
Duration: 5 days
Responsible: ICAO ADM
9. Installation of the Linkway2100 at COCESNA node
Start: 6 august 2009
Duration: 1 day
Responsible: ICAO ADM, AGS, COCESNA
10. Satellite line up of Linkway 2100 at COCESNA node
Start: 6 August 2009
Duration: 1 day
Responsible: ICAO ADM, AGS
11. End to end tests and activation of COCESNA node with REDDIG
Start: 6 August 2009
Duration: 2 days
Responsible: ICAO ADM
12. Communications evaluation
Start: 6 August 2009
Duration: 2 days
Responsible: ICAO ADM, COCESNA
13. Service acceptance
Start: 7 August 2009
Duration: 1 day
Responsible: COCESNA

- - - - -

APENDICE E/APPENDIX E

PUNTOS FOCALES PARA COORDINAR LA IMPLANTACIÓN DEL PLAN DE ACCIÓN PARA LA INTERCONEXIÓN MEVA II/REDDIG

FOCAL POINTS FOR COORDINATING THE IMPLEMENTATION OF THE ACTION PLAN FOR MEVA II/REDDIG INTERCONNECTION

ESTADO ORG./ STATE ORG.	NOMBRE-TITULO/ NAME-TITLE	DATOS DE CONTACTO/ CONTACT INFORMATION
BRASIL	Athayde Licerio Viera Frauche Coordinador de la REDDIG Jorge Mauricio Motta Coordinador Técnico REDDIG	DECEA Av. General Justo 160 Castelo, Rio de Janeiro, Brasil Tel +55 21 21016584 Fax +55 21 21016219 Email dcte5@decea.gov.br CINDACTA IV Av. Do Turismo sin Taruma Manaus – AM, Brasil Tel +55 92 36525536 Fax +55 92 36525501 Email mauriciojmm@cindacta4.decea.gov.br
COLOMBIA	Sergio Paris Asesor del Director de la UAEAC/ UAEAC Director Adviser	Unidad Administrativa Especial de Aeronáutica Civil - UAEAC Dirección Telecomunicaciones Aeropuerto Internacional ElDorado Tel +57 1 2663672 Fax +57 1 2223486
ECUADOR	Raúl Avellán Oña Asuntos técnicos:/Technical matter Sr. Víctor Acosta Caizapanta Asuntos administrativos /Administrative matter	Aeropuerto José Joaquín Olmedo Guayaquil, Ecuador Tel +593 42 692829 Cel +593 84 362441 REDDIG 2308 / 2309 Email ravellan1@yahoo.com Dirección General Aviación Civil Quito, Ecuador Tel +593 2 2567822 Cel +593 9 9664148 Email victor_acosta@dgac.gov.ec
PERÚ	Sr José Luis Paredes Dávila	CORPAC S.A. Tel +51 1 708 1196 Cel +51 1 99582 5997 Email jlparedes@corpac.gob.pe

ESTADO ORG./ STATE ORG.	NOMBRE-TITULO/ NAME-TITLE	DATOS DE CONTACTO/ CONTACT INFORMATION
VENEZUELA	Luis E. Escobar Jefe Telecomunicaciones Aeropuerto Maiquetía Wilton R. Linarez Coordinador de Telecomunicaciones	Aeropuerto Simon Bolívar, Edif. ATC, Piso 2 Maiquetía, Venezuela Tel +58 212 3552143 Fax +58 212 3551412 Mail scoguil5@cantv.net l.escobar@inac.gov.ve Instituto Nacional de Aeronáutica Civil (INAC) Altamira Sur, Torre Británica, Piso 2 Caracas, Venezuela Tel +58 212 2774403 Fax +58 212 2774403 E-mail w.linarez@inac.gov.ve
COCESNA	Roger Perez Gerente Estación Honduras /Honduras General Manager	COCESNA Tel + 504 234 3360 ext. 1461 Fax + 504 234 3682 E-mail rperez@cocesna.org

UPDATED ACTION PLAN FOR IMPLEMENTATION OF MEVA II AND REDDIG INTERCONNECTIONS
PLAN DE ACCIÓN ACTUALIZADO PARA LA IMPLANTACIÓN DE LAS INTERCONEXIONES MEVA II Y REDDIG

Date/Fecha: February/Febrero 2009

Item No.	Action / Acción	Responsible / Responsable	Completion Date / Fecha de Finalización	Status- Encountered Difficulties / Estado-Dificultades encontradas
1	2	3	4	5
1	RFP Completion/Finalización del RFP	COCESNA	30-Apr-07	Completed / Finalizado
2	Required connections: / Conexiones requeridas: Aruba COCESNA Ecuador Colombia Peru Venezuela Brazil / Brasil Panama United States / Estados Unidos Jamaica Curacao / Curazao	MEVA II Service Provider and REDDIG Administration / Proveedor Servicio MEVA II y Administración REDDIG	30-Apr-07 / 30-Abr-07	Completed / Finalizado
3	Identification of Current Equipment / Identificación de Equipo Actual	MEVA II Service Provider and REDDIG Administration / Proveedor Servicio MEVA II y Administración REDDIG	28 Sep-07	Completed / Finalizado
4	Completion of SLA / Finalización de SLA	MEVA II Service Provider and REDDIG Administrator / Proveedor Servicio MEVA II y Administración REDDIG	Mar/09	Valid/Valido Is part of the Service Contract/Es parte del Contrato de Servicio

Legend / Leyenda:

MoU: Memorandum of Understanding / Memorando de Entendimiento

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5	Review of RFP / Revisión de RFP		MEVA II and REDDIG Members / Miembros MEVA II y REDDIG	29 June -07/ 29 Junio 07	Completed / Finalizado The RFP was reviewed and approved by all MEVA II / REDDIG Member Administrations. / El RFP fue revisado y aprobado por todas las Administraciones miembros de las redes MEVA II y REDDIG.
6	Proposals response / Respuesta de propuestas		MEVA II Service Provider and REDDIG Administration / Proveedor Servicio MEVA II y Administración REDDIG	26 Sep.-07	Completed / Finalizado The response for the RFP from the MEVA II Service Provider and REDDIG Administration was presented at the MR/5 Meeting/ Las respuestas al RFP por parte del Proveedor de Servicio MEVA II y la Administración de la REDDIG se presentó en la Reunión MR/5.
7	Proposals review / Revisión de propuestas		Coordination meeting / Reunión de coordinación	5 Oct.-07	Completed / Finalizado The proposal was reviewed in the MR/5 Meeting. / La propuesta se revisó en la Reunión MR/5.
8	Focal nomination / Nombramiento Punto Focal	Send a letter to MEVA II / REDDIG Member Administrations / Envío carta a las Administraciones miembros de las redes MEVA II y REDDIG.	ICAO Regional Offices / Oficinas Regionales OACI	15 Oct. 07	Completed / Finalizado The ICAO Regional Offices sent to the States/Organization involved in the MEVAII REDDIG interconnection a letter in order to nominate focal points. Las oficinas regionales de la OACI enviaron una carta invitando los Estados/Organización involucrados en la interconexión la nominación de puntos focales.

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		Focal point designation/ Designación punto focal	MEVA II and REDDIG Members involved / Miembros de MEVA II y REDDIG involucrados	30-Oct-07	Completed / Finalizado All the States/Organization members of MEVA II and REDDIG network involved in the interconnection nominated focal points. Todos los Estados/Organización miembros de la REDDIG y MEVA II involucrados en la interconexión nominaron puntos focales.
9	Application of MoU reviewed / Aplicación del MoU revisado		MEVA II / REDDIG Member Administrations / Administraciones miembros de las redes MEVA II y REDDIG	30-Oct-07	Completed / Finalizado The ICAO Regional Offices sent to the States/Organization of MEVA II and REDDIG network in order to sign the MoU reviewed.
10	Review and acceptance of equipment costs for the MEVA II / REDDIG interconnection by the REDDIG Member Administrations / Revisión y aceptación por parte de las Administraciones Miembros de la REDDIG sobre costo de equipamiento para la interconexión MEVA II / REDDIG		All the REDDIG Member States / Todos Estados miembros de REDDIG	30 Oct-07	Completed / Finalizado No comments were received No se recibieron comentarios al respecto
11	Review and acceptance of equipment costs for the MEVA II / REDDIG interconnection by the MEVA II Member Administrations involved / Revisión y aceptación por parte de las Administraciones Miembros de la MEVA II involucradas sobre costo de equipamiento para la interconexión MEVA II / REDDIG		Aruba, Curaçao, Jamaica, Panama, USA (Miami and Puerto Rico) and COCESNA / Aruba, Curaçao, Jamaica Panamá, USA (Miami y Puerto Rico) y COCESNA	30 Oct -07	Completed / Finalizado No comments were received No se recibieron comentarios al respecto

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Item No.	Action / Acción	Responsible / Responsable	Completion Date / Fecha de Finalización	Status- Encountered Difficulties / Estado-Dificultades encontradas
1	2	3	4	5
12	Review and acceptance of proposed recurrent costs for the MEVA II / REDDIG interconnection/ Revisión y aprobación costos recurrentes propuestos para la interconexión MEVA II REDDIG	MEVA II/ REDDIG Member Administrations involved / Administraciones Miembros de la MEVA II y REDDIG involucradas	30 Oct- 07	Completed / Finalizado No comments were received No se recibieron comentarios al respecto
13	Revised MoU Signature / Firma del MoU Revisado	MEVA II and REDDIG Members / Miembros MEVA II y REDDIG	30 Nov 07	Completed / Finalizado The following States sent the MoU reviewed signed/Los siguientes Estados enviaron el MoU revisado firmado: Argentina, Brasil, Chile, Cuba, COCESNA, Estados Unidos, Guyana, Peru y/and Uruguay
14	Review, approval and signing of contracts or contract amendments to carry out the MEVA II / REDDIG interconnection presented by the MEVA II Service Provider / Revisión, aprobación y firma de los contratos o enmienda de los mismos para llevar a cabo la interconexión MEVA II/REDDIG presentada a través del Proveedor de Servicio de la MEVA II	MEVA II Member Administrations involved and REDDIG Administration / Administraciones Miembros de la MEVA II involucradas y Administración REDDIG	Mar/ 2009	ICAO reviewed and coordinate with AGS the contract for the provision of the interconnection of the MEVA II and REDDIG Satellite Telecommunication network. The Review contract was accepted by both parts and its signature is pending. La OACI revisó y coordinó con AGS el contrato para la provisión de la interconexión de las redes de telecomunicaciones por satélite MEVAII y REDDIG quedando pendiente la firma del mismo.

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15	To ensure that all MEVA II and REDDIG nodes work with IS-IR Satellite, using Band C transponder with US/Latin America hemispheric beam and Co-Linear Vertical polarization / Asegurar que todos los nodos de la MEVA II y REDDIG operen en el satélite IS-1R, empleando transpondedores de banda C con haz hemisférico US/Latin America y polarización co-lineal vertical.	MEVA II Service Provider and REDDIG Administration/ Proveedor Servicio MEVA II/ Administración REDDIG	Nov /08	Completed / Finalizado In the month of November 2008 AGS proceeded to change the polarity from horizontal to vertical of the MEVA II nodes. With this implementation all the preliminary requirements for the interconnection were satisfied. En el mes de noviembre de 2008 AGS procedió a la implantación del cambio de polaridad de horizontal a vertical de los nodos de la MEVA II. Con esta implantación todos los requerimientos preliminares para la interconexión MEVAII REDDIG están satisfechos.

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16	Equipment and spare parts acquisition for MEVA II/REDDIG interconnection/ Adquisición de equipamiento y repuestos para la interconexión MEVA II / REDDIG.	REDDIG Administration and MEVA II involved Member Administrations / Administración de la REDDIG y Administraciones Miembros de la MEVA II involucradas	Mar/ 09	The ICAO Technical Cooperation completed the bid process in the month of May 2008. The purchase of the equipments will be made once ICAO signs the Contract for the provision of the interconnection of the MEVA II and REDDIG Satellite Telecommunication network. with AGS La Cooperación Técnica de la OACI completó el proceso de licitación para la adquisición de los equipos en mayo de 2008. La adquisición de los equipos se hará una vez que la OACI firme el contrato para la provisión de la interconexión de las redes de telecomunicaciones por satélite MEVAII y REDDIG con AGS.
17	Site survey for Bogota, Caracas and COCESNA, / Inspección sitio para Bogota, Caracas and COCESNA,	MEVA II Service Provider and REDDIG Administration / Proveedor MEVA II y Administración REDDIG	May/ 09	Site survey is considered as part of the services to be provided. El estudio de sitio se considera parte de los servicios a ser provistos.
18	Site preparation for equipment installation for MEVA II / REDDIG interconnection / Preparación de los sitios para albergar equipamiento para la interconexión MEVA II / REDDIG	Colombia, Venezuela and/y COCESNA	Jun/09	
19	Delivery of purchased equipment at the required sites. / Entrega de equipamiento adquirido en los sitios requeridos	MEVA II Service Provider and REDDIG Administration / Proveedor de Servicio MEVA II y Administración REDDIG	Jul/09	

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20	Equipment installation / Instalación equipamiento	MEVA II Service Provider and REDDIG Administration / Proveedor de Servicio MEVA II y Administración REDDIG	Jul/09	
21	Satellite line-up, configuration of site equipment and NCC for the interconnection/ Line-up satelital, configuración equipamiento en sitio y NCC para interconexión	MEVA II Service Provider and REDDIG Administration / Proveedor de Servicio MEVA II y Administración REDDIG	Jul/09	
22	End-to-end trials for voice and data circuits / Pruebas de extremos a extremos para los circuitos de voz y datos	MEVAII Service Provider and REDDIG Administration / Proveedor de Servicio MEVA II y Administración REDDIG	Aug/09	
23	System Performance Evaluation / Evaluación de la performance del sistema	MEVA II Service Provider and REDDIG Administration / Proveedor de Servicio MEVA II y Administración REDDIG	Aug/09	
24	Service acceptance / Aceptación de los servicios /	MEVA II / REDDIG Member Administrations / Administraciones miembros de las redes MEVA II y REDDIG	Aug/09	
25	MEVA II / REDDIG Interconnection Implementation / Implantación de la interconexión MEVA II / REDDIG	MEVA II / REDDIG Member Administrations, MEVA II Service Provider and REDDIG Administrator / Administraciones miembros de las redes MEVA II y REDDIG, Proveedor Servicio MEVA II y Administración REDDIG	Sep/09	

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