INTERNATIONAL CIVIL AVIATION ORGANIZATION
NORTH AMERICAN, CENTRAL AMERICAN AND CARIBBEAN OFFICE

TWENTY-EIGHTH MEVA TECHNICAL MANAGEMENT GROUP

MEVA/TMG/28

FINAL REPORT

MIAMI, UNITED STATES, 26 TO 30 MAY 2014

Prepared by the Secretariat

May 2014

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HISTORICAL

ii.1 Place and Date of the Meeting

The Twenty-eighth Meeting of the MEVA Technical Management Group (MEVA TMG/28) was held at the Shula´s Hotel in Miami, United States, from 26 to 30 May 2014.

ii.2 Opening Ceremony

Ms. Dulce Roses, MEVA TMG Coordinator, welcomed the participants, pointed out the high level training and the subsequent MEVA III implementations topics covered under the Agenda, the annual MEVA II Network performance review and the coordination between the MEVA II and MEVA IIII Service Providers for the MEVA Network transition; and wished the MEVA TMG Members success to achieve the best results. Mr. Julio Siu, ICAO NACC Regional Officer, Communications, Navigation and Surveillance, on behalf of Mrs. Loretta Martin, Regional Director of the International Civil Aviation Organization (ICAO), North American, Central American and Caribbean (NACC) Regional Office, also provided opening remarks, thanked the MEVA III Service Provider for hosting the event and welcomed the participants.

ii.3 Officers of the Meeting

The MEVA TMG/28 Meeting was chaired by Ms. Dulce Roses and Mr. Julio Siu. Both of them acted as Secretaries of the meeting.

ii.4 Working Languages

The working language of the Meeting was English, the working papers, information papers and report of the meeting were available to participants in English.

ii.5 Schedule and Working Arrangements

It was agreed that the working hours for the sessions of the meeting would be from 09:00 to 17:00 hours daily with adequate breaks.

ii.6 Agenda

Agenda Item 1 **Approval of Provisional Agenda and Schedule / MEVA III Network Advanced High-Level Training**

Agenda Item 2 **Review of Conclusions/Actions from Previous MEVA/TMG Meetings**

Agenda Item 3 **MEVA II Network Operation and Performance**

3.1 MEVA Network performance and maintenance: 06/2013-05/2014
3.2 Review of pending maintenance issues

Agenda Item 4 **New MEVA II Circuits Implementation Status**

4.1 Aeronautical Message Handling System (AMHS) and radar circuits/MEVA II – Eastern Caribbean (E/CAR) Aeronautical Fixed Service (AFS)
4.2 Network interconnection/other new services

Agenda Item 5 **Transition to MEVA III**

5.1 Review of MEVA II contractual matters and planning of MEVA II contract milestones
5.2 Coordination and agreements for MEVA II - MEVA III transition

Agenda Item 6 **MEVA III Implementation: Presentation of MEVA III Service Provider Staff and Organization**

Agenda Item 7 **MEVA III Implementation: Review of MEVA III Contractual Matters**

Agenda Item 8 **MEVA III Implementation: Review of MEVA III Implementation Activities**

Agenda Item 9 **MEVA III Implementation: Deliverable Results**

Agenda Item 10 **MEVA III Implementation: Implementation Schedule**

Agenda Item 11 **Other Business**

ii.7 Attendance

The Meeting was attended by 9 States/Territories from the CAR Region, 1 State from the SAM Regios, 1 International Organization and the MEVA II and MEVA III Service Providers, totalling 36 delegates as indicated in the list of participants

ii.8 List of Conclusions

The Meeting recorded its activities as Conclusions as follows:

CONCLUSIONS: Activities approved by the MEVA Members

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28/01	SES PENDING ACTION FOR COMPLETING ALTERNATE MASTER REFERENCE TERMINAL (AMRT)/MASTER REFERENCE TERMINAL (MRT) ASSESSMENT AND REMOTE RADIO CIRCUIT IMPLEMENTATION	2-1
28/02	COMPLETION OF MEVA/REDDIG INTERCONNECTION AERONAUTICAL FIXED TELECOMMUNICATION NETWORK (AFTN) DATA CIRCUIT WITH BRAZIL	2-1
28/03	MEXICO TO SIGN MEVA III DOCUMENT OF AGREEMENT (DOA)	2-1
28/04	MEVA II AVAILABILITY CLAIM	3-3
28/05	SES CONFIRMATION OF EQUIPMENT OWNERSHIP	3-5
28/06	MONTHLY CONTRACT FOR THE REMAINING MONTHS UNTIL THE MEVA III TRANSITION	5-1
28/07	END DATES OF ANNUAL MEVA II CONTRACTS	5-1
28/08	DEVELOPMENT AND APPROVAL OF RELEVANT MEVA DOCUMENTATION FOR MEVA III	5-3
28/09	MEVA III- REDDIG II MEETING ORGANIZATION	5-3
28/10	CONFIRMATION AND APPROVAL OF PROPOSED LOCAL SERVICE PARTNERS FOR MEVA III SERVICES	6-3
28/11	MEVA III FACTORY ACCEPTANCE TESTS (FATs)	10-2
28/12	COMSOFT REPRESENTATIVES FOR MEVA III INSTALLATION	10-2
28/13	MEVA III HIGH LEVEL TRAINING AND RESTORATION PROCEDURES	10-2
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28/15	MEVA III GO TEAMS	11-2

ii.9 List of Working and Information Papers

Refer to the Meeting web page:
http://www.icao.int/NACC/Pages/meetings-2014-mevatmg28.aspx

WORKING PAPERS

Number	Agenda Item	Title	Date	Prepared and Presented by
WP/01	--	Provisional Agenda; Work Method and Schedule of the Twenty-Eighth MEVA Technical Management Group	26/05/14 Rev.	Secretariat
WP/02	1	Introduction to MEVA III Advanced High-Level Training	22/05/14	COMSOFT
WP/03	2	Review of Conclusions/Actions from Previous MEVA/TMG Meetings	23/05/14	MEVA TMG Coordinator

WORKING PAPERS

Number	Agenda Item	Title	Date	Prepared and Presented by
WP/04	3	MEVA II - TMG/28 Presentation	26/05/14	SES
WP/05	4	Complements to Presentation: MEVA II New Circuits		
WP/07	5	MEVA II Spares Inventory Report		
WP/06	3	Updates on the MEVA II Network	26/05/14	United States
WP/08	6	MEVA III Task Force Report	26/05/14	MEVA III Task Force Rapporteur
WP/09	6	MEVA III Service Provider/COMSOFT Staff and Organization	22/05/14	COMSOFT
WP/10	7	Review of MEVA III Contractual Matters	23/05/14	COMSOFT
WP/11	8	MEVA III Implementation Activities	22/05/14	COMSOFT
WP/12	9	MEVA III Deliverable Results	23/05/14	COMSOFT
WP/13	10	MEVA III Implementation Schedule	22/05/14	COMSOFT
WP/14	11	NAM/CAR Air Navigation Targets related to MEVA III Implementation	26/05/14	Secretariat
WP/15	11	ICAO Technical Cooperation Project (RLA/09/801) – Implementation of Performance-Based Air Navigation Systems for the CAR Region– MEVA III Go-teams	26/05/14	Secretariat
WP/16	5	MEVA II Transition Considerations	26/05/14	Secretariat

INFORMATION PAPER

Number	Agenda Item	Title	Date	Prepared and Presented by
IP/01	---	List of Working Papers and Information Papers	27/0514/	Secretariat

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Agenda Item 1 Approval of Provisional Agenda and Schedule/MEVA III Network Advanced High-Level Training

Approval of Provisional Agenda and Schedule

1.1 Under WP/01 Rev, the Secretariat invited the Meeting to approve the Provisional agenda and schedule, and referred to IP/01 with the list of associated documentation. The Meeting approved the agenda as presented in the historical section of this report.

MEVA III Network Advanced High-Level Training

1.2 Under WP/02, hardcopy material and CD information, COMSOFT provided a 2-day customized advanced high-level training for better knowledge of the proposed network system and related service concept.

1.3 The goals of the training were:

- To give an overview of the system delivered
- To understand structure and function of system components,
- To explain in detail communication flows and interfaces within the network,
- To understand Network Management System (NMS) functions and provide access tools/interfaces

1.4 This training for MEVA III Member States personnel on the Very Small Aperture Terminal (VSAT) network in a high-level basis included:

- SkyWAN basic technology
- SkyWAN FAD/Multiplexer
- Structure of individual network stations (extending and changing network)
- NMS/management access scenario
- Maintenance concept

1.5 On the second day of the training, a visit to COMSOFT ´s Regional Representative Offices for the MEVA III Network, NEWCOM, was conducted to show the facilities and staff supporting the MEVA III Network Operations Centre (NOC) and maintenance.

Agenda Item 2 Review of Conclusions/Actions from Previous MEVA/TMG Meetings

2.1 Under WP/03, the Meeting reviewed the valid conclusions from the MEVA TMG/27 Meeting and followed-up on their progress. To follow-up the previous TMG/27 valid conclusions, the following conclusions were formulated:

CONCLUSION
MEVA TMG/28/01 SES PENDING ACTION FOR COMPLETING ALTERNATE MASTER REFERENCE TERMINAL (AMRT)/MASTER REFERENCE TERMINAL (MRT) ASSESSMENT AND REMOTE RADIO CIRCUIT IMPLEMENTATION

That, in order to complete the pending implementation/operational actions to ensure the safety and efficient operation of the MEVA II Network, SES:

a) complete the AMRT/MRT switching testing, **by 30 June 2014**; and

b) complete the remote radio circuit implementation **by 20 June 2014**.

CONCLUSION
MEVA TMG/28/02 COMPLETION OF MEVA/REDDIG INTERCONNECTION AERONAUTICAL FIXED TELECOMMUNICATION NETWORK (AFTN) DATA CIRCUIT WITH BRAZIL

That United States and the ICAO NACC Regional Office request assistance from the REDDIG Administrator **by 3 June 2014**, for coordination with Brazil to complete final testing of AFTN data circuit Atlanta-Manaus.

CONCLUSION
MEVA TMG/28/03 MEXICO TO SIGN MEVA III DOCUMENT OF AGREEMENT (DOA)

That for the complete signing of the MEVA III DoA and common MEVA III contracting aspects, Mexico sign the MEVA III DoA **by 30 June 2013**, submitting the signed DoA to ICAO.

2.2 In this sense, all the previous valid conclusions were considered completed or superseded. **Appendix A** to the Report presents the follow-up to these conclusions.

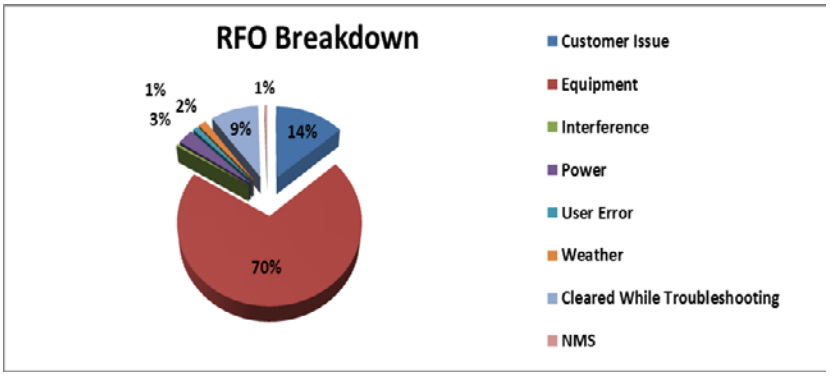
Agenda Item 3 MEVA II Network Operation and Performance

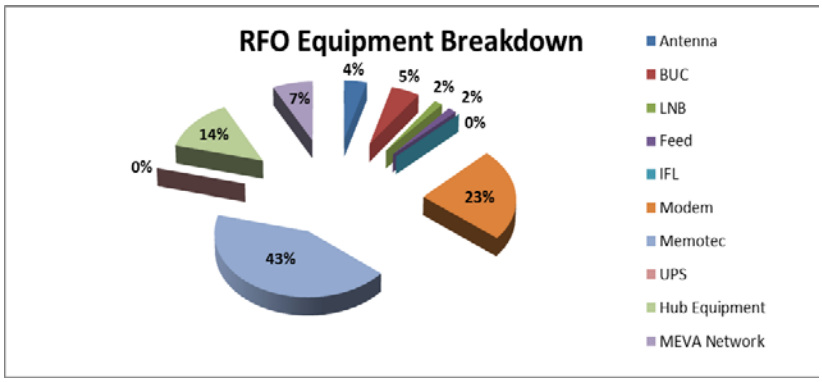
3.1 MEVA Network Performance and Maintenance: 06/2013-05/2014

3.1.1 Under WP04, the MEVA II Service Provider (SES) presented information on the operation and performance of the MEVA II Network from June 2013 through May 2014, highlighting the following:

Trouble Tickets

- There were 191 Trouble Tickets during the period of June 2013 and May 2014
- The majority of the trouble tickets were related to equipment issues such as Memotec, Linkway modem, customer issues and Hub equipment.
- Key findings on overall Reasons for Outages (RFOs) identified 70% RFOs are related to equipment, and 14% RFO's are customer issues. It also reported that 43% are Memotec related and 23% are Modem related
- The following charts identify the RFO and equipment breakdown

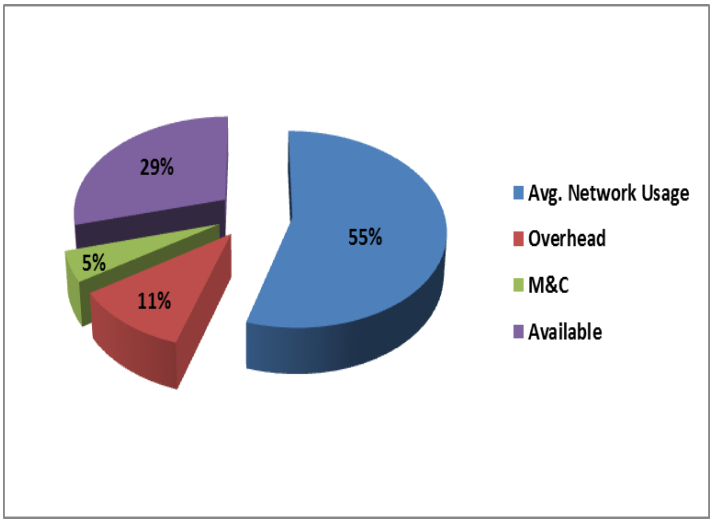




RFO	#	Equipment	#
Customer Issue	26	Antenna	8
Equipment	134	BUC	10
Interference	1	LNB	3
Power	6	Feed	3
User Error	2	IFL	
Weather	3	Modem	45
Cleared While Troubleshooting	18	Memotec	82
NMS	1	UPS	
		Hub Equipment	26
		MEVA Network	14

Link Performance

- SES presented the link availability and average transmission rate
- From June 2013 to May 2014, the average peak usage was 94% of bandwidth
- The average link availability was greater than 99.9% for MEVA II sites
- The following chart and table identifies the link average performance



Alloted Information Rate	5160
Avg. Network Usage	2827.26
Overhead	565.45
M&C	258.00
Available	1509.29
20% of Alloted Info Rate	1032

3.1.2 Several MEVA Members indicated that they have more downtime than the reported in these graphics, and that the actual service downtime and availability were really longer than reported. Similarly, the Meeting recalled that circuit availability could have been calculated through the Memotec Multiplexor. In this regard, the Meeting agreed on the following conclusion:

CONCLUSION
MEVA TMG/28/04 MEVA II AVAILABILITY CLAIM

That, in order to report the service outage and unavailability noted in the network in the first 5 months of 2014,

a) the MEVA Task Force (TF) (Cuba and Jamaica), propose by **3 June 2014**, a format for recollecting sufficient data for determining service unavailability;

b) MEVA Members following the format defined in item a) recollect the data from 1 January to 31 May 2014 and send it to ICAO **by 20 June 2014**; and

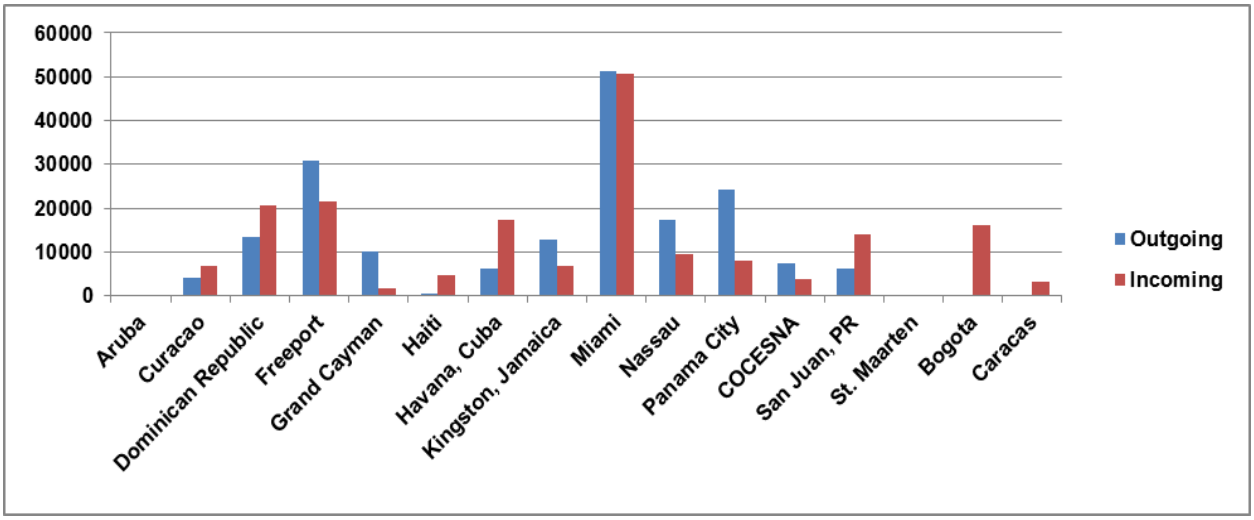
c) ICAO submit **by 30 June 2014** to SES the MEVA Members´ unavailability information for their response and subsequent actions.

3.1.3 SES indicated that the existing available bandwidth may not be enough for the additional Aeronautical message handling system (AMHS) and radar and voice circuits activation, and that it is looking for alternatives with Intelsat to solve this issue, such as:

- Conduct a power balance of the entire network
- Additional 1.25 msbs (mega symbols per second) slot should be added on IS-14 or
- Change all carriers and new carrier to a Forward Error Correction (FEC) of ½, which will require a new carrier and push new option files to each remote.

3.1.4 The MEVA Members manifested their concern for this situation and requested SES its action plan for the improvement actions implementation, particularly on power management adjustments and FEC changes, considering that some nodes like Dominican Republic are operating at their limits on power adjustments. SES will inform of the actions planned for this situation by **13 June 2014.**

3.1.5 SES also presented a chart of all call details from June 2013 to May 2014, as follows:



3.2 Review of Pending Maintenance Issues

3.2.1 SES informed that the 2014 annual maintenance visits were completed in April 2014, with the following results:

- Atlanta - antenna feed needs replacement, feed is on hand and arrangement for replacement will be made
- Curacao - Antenna feed needs replacement, feed was ordered and received. SES will make arrangement with the site to coordinate replacement
- Grand Cayman - jack screw needs replacement; this was also observed in the 2013 annual maintenance. A price quote was submitted on 9 May 2013. This action was completed.
- Kingston, Aruba and San Juan - need band pass filters to eliminate local interference. Filters have been ordered and received. Will make arrangements with the sites for installation
- Santo Domingo - Antenna needs an immediate replacement. Antenna panels have deteriorated to the point that all the Radio Frequency (RF) reflecting paint is gone. SES reported that antenna lost ½ of the total gain forcing the Block Up Converter (BUC) to transmit at saturated power. Discussion during the meeting concluded that the BUC was transmitting at the right power after antenna was peaked and pol.
- Sint Maarten - antenna feeders needs replacement, feed have been ordered and received. SES will make arrangement with the site to coordinate replacement
- Maintenance reports will be distributed and placed in the MEVA website as soon they are completed by AIS Engineering. Estimated time to complete: 30 May 2014

3.2.2 SES indicated that the changes to antenna feeders and filters are described in paragraph 3.5 and will be conducted by mid-June 2014, and that work is on-going with Intelsat to resolve a low level interference on satellite IS14.

3.2.3 After reviewing SES annual performance report, the MEVA Members provided the following information on the Network:

- Aruba – they are having problems with the BUC.
- Bahamas – they are having problems with Memotech, which needs to be reset constantly in order to clear trouble with the voice dial lines.
- Cayman Islands – reported problems related to MIA. Shout line to Jamaica was out for some time
- Cuba – interruptions up to 25 hours in the last two months with ATL
- Curacao – AFTN problems with Atlanta and quality of voice with Santo Domingo

- Dominican Republic –acknowledged the deterioration of their antenna and indicated that, after adjustments, its functioning improved close to its expected power. The power was increased from 16 to 32 watts, the line was working and when it was locked down (static), the problem was resolved. Dominican Republic wants to keep the antenna until they move to the new building
- Haiti –reported trouble with the voice line with Santo Domingo, cleared when asked to reset the Memotech
- Jamaica – indicated that they are having communications problems between their technicians and SES; such as when a problem is reported, the circuit normalizes and no explanation is given as of what the problem was
- Mexico: The MEVA II Node in Merida is out of service and due to contractual issues, it will not be activated
- Sint Maarten – indicated that they have experienced many failures in the last two weeks. Most of the time, the NOC asked them to reset the Memotec
- FAA – reported lack of additional bandwidth for upcoming Aeronautical Message Handling System (AMHS) implementation. Response from the Network Operation Center (NOC) has improved
- COCESNA – indicated that they sent official request to SES regarding instability of network. A filter was installed, which did not clear the problem, but caused instead more problems. COCESNA technicians removed filter and line worked better, but it still has intermittent problems

3.2.4 In this regard, SES indicated that they will review all the MEVA Members´ comments and will respond by **6 June 2014** of the actions to be taken to improve the service and resolve failures.

3.2.5 SES presented a description of the ownership of each of the MEVA nodes, to which several corrections were identified, and concluding that only Mexico, Atlanta and COCESNA own all the equipment Indoor Unit (IDU), Low Noise Block (LNB)/BUC and antenna, and the rest of the MEVA Members only owns the antenna. The details are shown in the preliminary table of **Appendix B** to this Report. In this regard, the Meeting adopted the following conclusion:

CONCLUSION
MEVA TMG/28/05 SES CONFIRMATION OF EQUIPMENT OWNERSHIP

That, in order to ensure which equipment is owned by the MEVA Members and which by SES, SES confirm by **6 June 2014**, the correctness of the preliminary ownership table shown in Appendix B to this report.

Agenda Item 4 New MEVA II Circuits Implementation Status

4.1 Aeronautical Message Handling System (AMHS) and Radar Circuits/MEVA II – Eastern Caribbean (E/CAR) Aeronautical Fixed Service (AFS)

4.2 Network Interconnection/Other New Services

4.1.1 Under WP/04, SES presented the progress achieved and the status of the new MEVA II circuit requested by the MEVA Members, where the bandwidth need for AMHS circuits was commented, In most new circuits, the physical ports are available on site.

4.1.2 As part of the evaluation with the MEVA Members, and with the criteria of the future MEVA II implementation, SES updated the table of new circuits to be implemented in the MEVA II Network as shown in **Appendix C** to this Report.

Agenda Item 5 Transition to MEVA III

5.1 Review of MEVA II Contractual Matters and Planning of MEVA II Contract Milestones

5.1.1 The MEVA II Service Provider, SES, under WP/04, provided the end date of each of the MEVA Member contracts. The MEVA Members indicated that several contract dates were incorrect. From the discussion, SES commented that:

- All MEVA Members had passed the mandatory 5-year contracting period and are in the optional contracting years (automatic annual renewal period)
- In most of the contracts, a penalty is applied for termination of the contract prior to the contract end date, consisting on the payment of 100% of the monthly charge for the months remaining before the contract end date
- A 60-day notification prior to the contract end date must be submitted to SES by the MEVA Member
- All circuits, regardless of their activation dates, are subject to the contract end dates

5.1.2 Based on the above mentioned considerations; SES recommended that the MEVA Members terminate their corresponding contracts at the next end date (before the automatic annual renewal), making the 60-day notification and requesting SES to continue the service under a new monthly contract if required. The monthly contract prices may not be the same as the annual contract. In this regard, the Meeting agreed on the following conclusions:

CONCLUSION
MEVA TMG/28/06 MONTHLY CONTRACT FOR THE REMAINING MONTHS UNTIL THE MEVA III TRANSITION

That, in order to plan and decide the best cost-effective way for continuing the MEVA II Service Provider´s services prior to the MEVA III Transition, SES inform by **13 June 2014,** the price impact for continuing the MEVA II service through monthly contracts.

CONCLUSION
MEVA TMG/28/07 END DATES OF ANNUAL MEVA II CONTRACTS

That, in order to assist and support the MEVA Members in defining the best cost-effective way for continuing the MEVA II Service Provider´s services prior to the MEVA III Transition, MEVA Members to inform the MEVA TMG of their current MEVA II contract end date by **3 June 2014**.

5.1.3 Under WP/16, the Secretariat highlighted that the MEVA III transition process must ensure that all services from MEVA II are transferred to the MEVA III Network infrastructure, and that it is done without or minimum affectation or degradation of the services to the users (operational/technical), while complying with the MEVA III contractual agreements and the committed Service Level of Agreement (SLA).

5.1.4 In this regard, it was commented that from the operation and performance of the current MEVA II Network, several useful operational and guidance material for maintaining this efficient operation has been developed, and several existing documents have been agreed to ensure the appropriate operations of the MEVA II Network, including its interconnection/integration with the REDDIG Network. Such MEVA II documents and material are under the secured MEVA II webpage in the MEVA II Service Provider website, such as:

Reference Material:

- Equipment manuals
- As-built diagrams
- Training material

Operational references

- MEVA Service Provider Organizational chart
- MEVA II Directory- switched lines
- MEVA Contact List
- Maintenance Plan/Procedure
- MEVA Contingency Plan Rev. 3
- Sun outage reports
- Status of spare part pools
- NOC troubleshooting flowcharts/procedures
- MEVA Escalation Guidelines

Operational follow-up

- Monthly/quarterly/periodic network performance reports
- Annual Maintenance reports

5.1.5 The Meeting recalled that the interconnection of MEVA II and REDDIG is an interregional agreement made at the CAR/SAM Regional Planning and Implementation Group (GREPECAS to encourage the implementation of regional telecommunication networks, and represented the first phase for achieving full network integration in the future. The following two documents were agreed:

- MEVA – REDDIG interconnection Management agreements- Appendix B to WP/16
- MEVA- REDDIG network integration considerations- Appendix A to WP/16

5.1.6 The Meeting agreed that the MEVA III Network implementation and operation should have the same or improved documents/guidance, and follow the existing agreements made with the REDDIG network. In this regard, the Meeting agreed on the following conclusions:

CONCLUSION
MEVA TMG/28/08 **DEVELOPMENT AND APPROVAL OF RELEVANT MEVA DOCUMENTATION FOR MEVA III**

That, in order to ensure the appropriate operations of the MEVA III Network, including its interconnection/integration with the REDDIG Network:

a) the MEVA III Task Force, Aruba and Curacao, in coordination with COMSOFT, take the necessary actions to maintain or improve the network documentation and references when transitioning to MEVA III and considering the existing MEVA II material **by the beginning of the MEVA III site installations;**

b) COMSOFT present its MEVA III webpage design/template by **31 July 2014** or within the System Design Documentation (SDD) proposal; and

c) the MEVA III Task Force, in coordination with COMSOFT, review the existing MEVA II-REDDIG interconnection agreements (MEVA-REDDIG Memorandum of Agreement (MoA) and Integration considerations) for its customization for MEVA III by **15 September 2014**.

CONCLUSION
MEVA TMG/28/09 **MEVA III-REDDIG II MEETING ORGANIZATION**

That, in order to ensure the appropriate coordination and effective operation of the MEVA III and the REDDIG Network, ICAO coordinate the need for a MEVA III-REDIG II Meeting, to review and agree on the corresponding common network management issues and inform the MEVA TMG by **30 September 2014**.

5.2 Coordination and Agreements for the MEVA II - MEVA III Transition

5.2.1 After an initial coordination between the MEVA II and MEVA III service providers, it was commented that:

- In parallel/simultaneous mode, the MEVA III node will be installed and the MEVA II node will be operating in each site
- MEVA III will have their own Network bandwidth. (reduced codings related to BUC and space segment usage)
- The MEVA Members agreed to support the service cutover to MEVA III, for which COMSOFT will provide the necessary training during the On-The-Job Training (OJT) at each site
- Considering that in many sites, the same antenna will be reused, a BUC upgrade (greater power) will be implemented (only Atlanta as discussed during TMG28), replacing the existing BUC
- SES has to provide sufficient available BUC power in MEVA II to run a second carrier for the transition phase
- SES has to provide a table with such information to COMSOFT and the MEVA III TF in advance

- Miami and Atlanta nodes (MRT and AMRT) will be the first nodes.

5.2.2 For the BUC replacement and de-installation of equipment, two options were discussed: a) SES and COMSOFT technician on site; or b) COMSOFT Technician only on site. SES will analyse the options and coordinate these activities with COMSOFT by **11 July 2014**.

5.2.3 SES emphasized that they will work as needed for a smooth MEVA II-MEVA III transition.

Agenda Item 6 MEVA III Implementation: Presentation of MEVA III Service Provider Staff and Organization

6.1 Under WP/08, the MEVA III TF Rapporteur presented the MEVA III Task Force work in support to the implementation of the MEVA III Network, recalling the TF Terms of Reference (ToRs) to assist the MEVA Members, in coordination with the MEVA III Service Provider, on the timely and efficient implementation of the MEVA III Network, and review and inform the MEVA TMG on their approval of all deliverable documents required for the MEVA III Network implementation.

6.2 In this regard, the MEVA III TF reported its results as follows:

a) Coordination and agreement for the revised MEVA III Service Level Agreement, English and Spanish versions

b) Clarification on the MEVA III implementation matters:

- COMSOFT provided to MEVA Members an application to calculate the prices for new requirements
- High-Level Training 2 coordination
- Local monitoring definition with the provision of 3 options:

1) Access via Internet to the NOC monitoring programme. Option included in the MEVA III implementation without any additional cost to all Members
2) Monitoring through the use of Simple Network Management Protocol (SNMP) compatible software connected to the Members node. The SNMP MIB files are provided by COMSOFT at no cost. Procuring, configuring, and maintaining the SNMP compatible software is the responsibility of the MEVA Member exercising this option
3) Monitoring of the health of the entire network through a dedicated MEVA III circuit with the hardware and software provided, configured and maintained by COMSOFT. Available but at an additional cost

c) Follow up on MEVA III contracts development (Appendix D to WP/08), including each contract requirements (leased or purchase option, single or dual chain configuration, spare pool or acquire spare parts, etc.)

d) Review, analysis and approval of COMSOFT´s change request of Station Design. The proposed design change was to substitute the redundancy kit (RCU5000) offered in the MEVA III Proposal by a CPI C-Band redundancy kit, consisting of a CODAN redundancy unit and a 10MHz reference source. COMSOFT stipulated that the new redundancy kit is certified and preferred by ND SatCom, and that there would be no impact on the price offered in the MEVA III proposal

e) Preparatory actions for reviewing the MEVA III deliverable documents

6.3 The Meeting confirmed the approval of the Service Level of Agreement (SLA) documents and the actions and results achieved by the MEVA III TF. The Meeting congratulated the MEVA III TF for the work accomplished.

6.4 The Secretariat recalled the Meeting about the MEVA III Implementation website under the ICAO secure portal, which contains all the valid references for this implementation and that are to be followed up by the MEVA Members. The web link is: https://portal.icao.int/MEVA/Pages/default.aspx:

6.5 Under WP/09, COMSOFT recalled their Project Management Plan staff and organizational structure, including their regional representative such as NewCom International Inc. to provide the necessary local presence and provide a gapless service network, with premium operational field services for the MEVA III Network. Similarly, the local partner to this service was provided (as shown on Table "Presentation of in-country Organizations" on WP/09), with which COMSOFT confirmed the compliance with the MEVA III SLA. In this regard, the Meeting agreed on the following conclusion:

CONCLUSION
MEVA TMG/28/10 CONFIRMATION AND APPROVAL OF PROPOSED LOCAL SERVICE PARTNERS FOR MEVA III SERVICES

That, in order to ensure an appropriate coordination and the most effective service to the MEVA Members in achieving the MEVA III SLA, the MEVA Members review, comment or approve the proposed local service partners for their MEVA III Administration Services, informing the MEVA TMG by **20 June 2014**.

Agenda Item 7 MEVA III Implementation: Review of MEVA III Contractual Matters

7.1 Under this Agenda Item, COMSOFT provided a description on the contract structure framework agreements, relating all its exhibits (pricing, warranties, etc.), and the SLA as Annex to the contract. Similarly, the Meeting was informed that the end of COMSOFT proposal validity was extended up to 31 July 2014.

7.2 Under WP/10, COMSOFT informed the Meeting on the contract negotiation procedure with each MEVA Member, where COMSOFT has to negotiate the MEVA III contract with each Member State on an individual basis. COMSOFT decided to perform the negotiation procedure as follows.

- Preparation and submission of a dedicated Framework Agreement
- Negotiation and definition of Change Requests by the Member States
- Definition of Service/Delivery Package of each Member State
- Preparation of final contract documentation (Framework agreement, SLA, Attachments)

7.3 Under WP/10, an overview Table of the contract negotiation procedure status with each Member State was presented, highlighting that all MEVA members are progressing for the signature of the contract with a target date by **31 July 2014**. A delay in finalizing all contracts will automatically affect the implementation and transition plan.

7.4 The Meeting was informed that the MEVA III TF will continue monitoring the signature/development of the contract, agreeing to coordinate this follow-up every second week of the month.

7.5 In order to confirm the equipment to be implemented in each node, a review of interfaces of each MEVA Member was conducted, which results are shown in **Appendix D** to this Report. COMSOFT clarified that the interfaces are needed to define the bandwidth and node modules, which circuit charges will start when the circuit is activated.

Agenda Item 8 MEVA III Implementation: Review of MEVA III Implementation Activities

8.1 Under WP/11, COMSOFT presented an overview of the tasks already performed and the relevant upcoming tasks related to the Project Schedule Plan. The working paper highlighted the following:

a) COMSOFT indicated that due to the current political situation, COMSOFT has not been able to perform the site survey in Venezuela. COMSOFT is evaluating two options: a) with a local partner or, b) perform the site survey over the phone in collaboration with Venezuela Air Navigation Service Provider (ANSP). COMSOFT will define this site survey by **30 June 2014** and will inform the MEVA TMG of it; and

b) COMSOFT informed that all MEVA site surveys except Venezuela had been performed. A summary table of these site surveys was included as Appendix to WP/11.

8.2 During the meeting, COMSOFT provided to all MEVA Members its corresponding site survey reports for their consideration. As a result of the surveys, COMSOFT indicated that there was no major concern for the implementation of MEVA III.

8.3 Regarding the ownership of the existing MEVA II equipment for consideration during the transition activities, the Meeting indicated that this information is presented in the Table of Appendix B to this Report.

Agenda Item 9 MEVA III Implementation: Deliverable Results

9.1 Under WP/12 COMSOFT presented the dedicated set of documentation related to the MEVA III project implementation and operation, which will be delivered in 2 phases: an Implementation Phase and an Operational Phase, as follows:

a) During the Implementation Phase, the following documents will be delivered:

- Site Survey Reports
- System Design Documentation (SDD)
- VSAT terminal documentation
- Factory Acceptance Tests (FAT) documentation
- Site Acceptance Test (SAT) documentation
- Network Acceptance Test (NAT) documentation
- Transition Plan
- Training documentation

b) During the Implementation Phase, Performance Report/System Status Assessment reports will be provided.

9.2 The MEVA Members recalled that the deliverables of the MEVA III Implementation are the following:

- Issue Tracking System (Attachment II Section C 14.21)
- Accounting and Billing Records Management System (Attachment II Section C 14.27)
- MEVA III Website (Attachment II Section C 14.34)
- Technical documentation (Attachment II Section C 16.2 & 16.3)
- Training plan analysis, review and recommendations (Attachment II Section C 18.2 & 18.3)
- Security Plan (Attachment II Section C 17.2)
- Implementation schedule (included in the SDD) (Attachment II Section D 3.3)

9.3 COMSOFT will reflect all the deliverables in the Implementation Schedule.

9.4 The Meeting recalled that for the evaluation and processing of the MEVA III deliverables, the MEVA III TF was assigned to apply the Coordination Method defined as follows:

a) All deliverable proposals from the MEVA III Service Provider shall be submitted to the MEVA III Coordinator/ICAO and MEVA TMG Rapporteur
b) The MEVA TMG Rapporteur will coordinate with the MEVA III TF Rapporteur on the evaluation and analysis of the proposal, including the exchange of clarifications with the MEVA III Service Provider
c) The MEVA III TF will develop its evaluation results in a timely manner for submission for approval to MEVA TMG Members by means of email/teleconference communication

d) If comments or observations by the MEVA Members are made to the evaluation results, the MEVA III TF shall carry out the necessary coordination as in item b) for clarification and, if applicable, an update on the evaluation results

e) Once approval is granted by the MEVA Members, an approval notification will be submitted to the MEVA III Service Provider for application

9.5 COMSOFT indicated that they will include in the SDD the template of the Performance Report/System Status Assessment reports, the MEVA III web portal design and the online network monitoring (including the possible queries to the system components based on bandwidth of monitoring and control) for its approval as part of the SDD. For these activities, COMSOFT will coordinate with the MEVA TMG on the preliminary design prior to the SDD by **31 July 2014**.

Agenda Item 10 MEVA III Implementation: Implementation Schedule

10.1 Under WP/13, COMSOFT presented a tentative 6-month Implementation Schedule (Project Schedule Plan) for the MEVA Members with the timelines/milestones of the MEVA III network implementation. One of the main focus of the schedule was the transition from MEVA II to MEVA III in order to coordinate the necessary actions with the MEVA II Service Provider.

10.2 With the assumption that all the contracts will be signed by **31 July 2014**, the tentative schedule has a start date of 1 August 2014. If all contracts are not signed by the end of July, the start date will be postponed accordingly.

10.3 After several deliberations, the MEVA Members, in collaboration with COMSOFT, updated the Implementation Schedule to take into account timeframes and dates that impact the MEVA III implementation, and include several TMG activities for the follow-up on the MEVA III deliverables. The following milestones were highlighted:

Milestones	Date
Signature of all Contracts	31 July 2014
SDD and Transition Plan Proposal by COMSOFT	11 Sept. 2014
MEVA III TF/3 Meeting	23-26 Sept. 2014
System Engineering and FAT/SAT Deliverables by COMSOFT	16 Oct. 2014
Approval of FAT/SAT Documents	30 Oct. 2014
FAT execution	Nov. 2014
Custom clearance	Dec. 2014-Jan. 2015
Installation/SAT execution/OJT	Jan-Mar 2015
Network Acceptance Test (NAT)	Mar. 2015
MEVA III Network Operation	19 Mar. 2015
High Level /restauration Customer Trainings	Mar-May 2015
MEVA TMG/29 Meeting	9–11 Dec. 2014
MEVA TMG/30 Meeting	26-28 May 2015

10.4 The MEVA Task Force will update the MEVA III Work Breakdown Schedule (WBS) to reflect the Implementation Schedule milestones. Some MEVA Members informed of their interest on attending the FAT, for which it was clarified that this participation is available with the condition that all costs involved be covered by the participating MEVA Member, therefore, the following conclusion was formulated:

CONCLUSION
MEVA TMG/28/11 MEVA III FACTORY ACCEPTANCE TESTS (FATs)

That, in order to allow the possibility for the MEVA Members to participate in the MEVA III FAT:

a) COMSOFT inform ICAO by **29 August 2014** about the FAT venue, logistics and details needed for MEVA Members to participate; and

b) the participating MEVA Members notify the MEVA TMG and ICAO of their interest at least one month prior to the FAT execution.

10.5 Similarly, COMSOFT indicated that for the simultaneous installation of the MEVA III nodes, for some MEVA Members, a local COMSOFT representative will conduct these activities. In this regard and for security and logistical purposes, COMSOFT was requested to inform about this staff. The following conclusion was agreed:

CONCLUSION
MEVA TMG/28/12 COMSOFT REPRESENTATIVES FOR MEVA III INSTALLATION

That, in order to coordinate the necessary security and logistical matters for the node installation of the MEVA III equipment by COMSOFT Local Representatives, COMSOFT will provide by **30 October 2014**, the names of the staff and company performing the installation in each MEVA node for the respective MEVA Member approval.

10.6 For Network redundancy and security reasons, a MEVA node will be implemented in NEWCOM facilities, and will be reflected in the SDD. COMSOFT will provide all the necessary shipping/delivery documentation at least 3 weeks prior to the MEVA III equipment arrival on site for the MEVA Member support for custom clearance. Also, COMSOFT confirmed that the High Level Training and Restoration Procedures will be conducted in Miami as a 5-day training in multiples sessions, where a number of maximum 6 participants per session – which means 1 participant per MEVA Node is considered under the original tender proposal (Referred to COMSOFT clarification ACT 05/02 dated 20/01/2014). To optimize the training sessions, the following conclusion was formulated:

CONCLUSION
MEVA TMG/28/13 MEVA III HIGH LEVEL TRAINING AND RESTORATION PROCEDURES

That, in order to optimize the training sessions and the names of the MEVA Members participants, the MEVA TMG:

a) coordinate among the MEVA Members the participants to the MEVA III High Level Training and Restoration Procedures; and

b) inform COMSOFT by **11 July 2014** the number of participants for training sessions organization purposes.

10.7 The revised MEVA III Project Schedule Plan/Implementation Schedule is presented in **Appendix E** to this Report. Based on the aforementioned, the Meeting agreed on the following conclusion:

CONCLUSION
MEVA TMG/28/14 MEVA III IMPLEMENTATION SCHEDULE

That, in order to coordinate the necessary resources to continue the implementation activities for the MEVA III Network, the MEVA Members approve the MEVA III Implementation Schedule shown in Appendix E to this report.

Agenda Item 11 Other Business

11.1 Under WP/14, the Secretariat presented the air navigation regional priorities and targets related to the MEVA Network infrastructure that were developed by the NAM/CAR Air Navigation Implementation Working Group (ANI/WG) and approved by the NAM/CAR Directors of Civil Aviation.

11.2 The Meeting took note of the regional priorities/Regional Performance Objectives (RPOs) related to the MEVA Network infrastructure that required follow-up and accomplishment by the MEVA Network, shown as Appendix to WP/14. The air navigation targets that are related to the MEVA Network infrastructure under Aviation System Block Upgrades (ASBU) module 0 are as follows:

ASBU B0 Module	Element	Targets
B0-30/DAIM: Service Improvement through Digital Aeronautical Information Management	Aeronautical Information Exchange Model (AIXM) 5.1 Implementation	40 % of States with AIXM 5.1 implemented by December 2018
B0-25/FICE: Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration	AMHS Implementation	4 States to have Air Traffic Services Message Handling Services (AMHS) interconnected with other AMHS by December 2014
	ATS Interfacility Data Communications (AIDC) Implementation	50% of FIRs within which all applicable ACCs have implemented at least one interface to use Air Traffic Services Inter-facility Data Communication (AIDC)/On-line Data Interchange (OLDI) with a neighbouring ACC by December 2016.
	Aeronautical Telecommunication Network (ATN) Router Structure Implementation	70% of ATN router structure implemented by June 2016 100% MEVA III IP Network implementation by August 2015
B0-102/SNET: Increased Effectiveness of Ground-Based Safety Nets	Short Term Conflict Alert Implementation (STCA)	80% of selected ATS units with ground based safety nets (STCA) implemented by Dec. 2015
	Area Proximity Warning (APW)/Minimum Safe Altitude Warning (MSAW)	70% of selected ATS units with ground based safety nets (APW) implemented/70% of selected ATS units with ground based safety nets (MSAW) implemented by Dec. 2015
	Medium Term Conflict Alert (MTCA)	80% of selected ATS units with ground based safety nets (MTCA) implemented by Dec. 2016

11.3 Under WP/15, The Secretariat presented a proposal for the development and implementation of the Go Teams for MEVA III, as approved by the ICAO Technical Cooperation Project RLA/09/801 – *Implementation of Performance-Based Air Navigation Systems for the CAR Region.*

11.4 The Meeting recalled that the ICAO Technical Cooperation Project CAR RLA/09/801 is a tool for member States to streamline air navigation implementation matters and contributes to a safer, more secure, efficient and economic air transport system. It provides a means to support the social and economic development of participant States/Territories and international organizations through standardization and harmonization of aeronautical activities based on proven and modern methodologies and technologies for the provision of air navigation services within the CAR Region.

11.5 Bahamas, Barbados, Cuba, Curaçao, Dominican Republic, Haiti, Jamaica, Mexico, OECS States - Organization of Eastern Caribbean States (OECS) (Antigua and Barbuda, Grenada, Saint Kitts and Nevis, Saint Lucia and Saint Vincent and the Grenadines), Trinidad and Tabago, and Central American States (Belize, Costa Rica, El Salvador, Guatemala, Honduras and Nicaragua) through COCESNA, are members of the Project. United States participates in the Project by providing in-kind support.

11.6 The CAR Project Executive Committee in its Third Meeting (SC/03) carried out within the Fifth North American, Central American and Caribbean Directors of Civil Aviation Meeting (NACC/DCA/5), approved the implementation of a "Go-Team" to assist Project member States with implementation of Performance-Based Navigation (PBN), State Safety Programme (SSP) and Safety management system (SMS), Air traffic services Inter-facility Data Communication (AIDC), Aeronautical Message Handling System (AMHS), aerodrome certification, MEVA III, etc. The Go-Team will be formed by the Project member State experts and ICAO Regional Officers.

11.7 In this regard, the MEVA III GoTeam under the Sub-Project number 4: *Enhance Air traffic service (ATS) Situational Awareness*, was presented to the Meeting including the work framework of a GoTeam and proposing the development of the MEVA III GoTeam to assist the SAT execution. For the following Project Members: Bahamas, Cuba, Curacao, Dominican Republic, Haiti, Jamaica, Mexico and COCESNA. Estimated timeline: November 2014–January-2015, based on MEVA III Implementation Plan. The MEVA III GoTeam Terms of Reference (ToRs) are attached as **Appendix F** to this Report.

11.8 The MEVA Members congratulated the ICAO CAR Project for the full support to this GoTeams and agreed on the following conclusion:

CONCLUSION
MEVA TMG/28/15 MEVA III GO TEAMS

That, in order to support and assist in the implementation of the MEVA III Go Teams of the ICAO Technical Cooperation Project (RLA/09/801) – *Implementation of Performance-Based Air Navigation Systems for the CAR Region,*

a) MEVA Members review the MEVA III Go Team ToRs and send their comments to ICAO by **13 June 2014**; and

b) ICAO develop the MEVA III Go Teams and inform the schedule of these Go Teams by **21 November 2014**.

APPENDIX A

FOLLOW-UP TO VALID CONCLUSIONS FROM THE MEVA TMG/27 MEETING

Conclusion	Description	Remarks	Status
26/1 AMRT/MRT Switching Assessment Planning	That for the AMRT/MRT switching testing, SES will provide MEVA members with 1) at least 2-weeks notice; and 2) notification when the network is stable (no problems and completion of annual maintenance visits) in regard to this testing, tentatively scheduled for 18 July 2013.	Working AMRT located in Atlanta. New MRT in Miami. 29% available but not enough comply with future requirements	Superseded
26/3 Network Availability	That in order to ensure appropriate compliance with MEVA Network availability service level agreements, SES calculate the MEVA Network availability per site from May 2012 until May 2013 and inform the MEVA Members by 4 July 2013.		Completed
26/11 Remote Radio Circuit Implementation	That in order to streamline implementation of the remote radio circuit, SES send a technician to COCESNA and Jamaica to resolve the remote radio configuration by **12 June 2013**	Tech sent and problem still not quite resolved	Superseded
26/12 Radar Data Sharing requirements in the Central Caribbean	That Curacao, Dominican Republic and United States coordinate implementation of radar data sharing and inform members of the expected implementation date and its impact on the MEVA III Network by **30 July 2013**.	Dominican Republic informed that the radar data sharing activities have been rescheduled for 2014 (MEVA III Implementation) with the implementation of the new Santo Domingo ATC Control Centre.	Completed
26/18 Completion of MEVA/REDDIG Interconnection AFTN Data Circuit with Brazil	That United States and the ICAO NACC Regional Office request assistance from the REDDIG Administrator by 7 July 2013, for coordination with Brazil to complete final testing of AFTN data circuit Atlanta-Manaus.	United States has unsuccessfully tried to contact Brazil several times	Superseded
27/01 Review of Annual Maintenance Records	That, in order to confirm the correct provision of the annual maintenance reports for 2013, MEVA Members: a) review that the appropriate 2013 annual maintenance visit report is available on the MEVA II Website; and b) report the TMG Coordinator and ICAO of action a) by 30 October 2013	SES provide the 2014 Maintenance records	Completed
27/02 Reactivation of MEVA Merida Node	That, in order to reactivate the MEVA Node services in Merida and continue the regional collaboration: a) Mexico review the proposed LoAs on CPL-LAM and radar data exchange, informing on its approval by 15 November 2013; b) Mexico coordinate with ICAO and/or MEVA TMG assistance, the necessary activities to reactivate the services in the Merida Node by 30 November 2013; and c) Mexico and Cuba with the assistance of ICAO, coordinate the final activities for the data AFTN and voice circuit by 30 November 2013	Mexico will not activate the Merida node due to contractual reasons.	Completed

Conclusion	Description	Remarks	Status
27/03 Completion of MEVA II - E/CAR AFS Network Interconnection	That, to continue and complete the implementation of the MEVA II/ E/CAR Valid interconnection, United States and St. Maarten continue and schedule the remaining activities to complete this interconnection, and inform the MEVA TMG **by 30 November 2013**.	Implementation is ongoing until the week of 2 June 2014	Completed
27/04 Approval of THE MEVA III Evaluation Process	That after reviewing the development and activities carried out by the MEVA III TF on the MEVA III Tender Process evaluation and selection, and considering the results presented, the MEVA Members: a) approve the evaluation and selection activities conducted by the MEVA III TF for the MEVA III Network; and b) accept the COMSOFT proposal as the best MEVA III proposal.		Completed
27/05 Approval of the MEVA III Evaluation Report	Those, in general terms, the MEVA Members approve the MEVA III Evaluation Report.		Completed
27/06 Approval of Second MEVA III Task Force Meeting Report	The MEVA Members approve the Second MEVA III Task Force Meeting Report and its conclusions.		Completed
27/07 Approval Of MEVA III Document Of Agreement (DoA)	That, considering the need for a regional agreement for the effective and harmonized implementation/operation/expansion of the MEVA III Network, MEVA Members approve the MEVA III DoA presented as the Appendix to this part of the report.		Completed
27/08 Signature of MEVA III Document of Agreement	That for timely signing of the MEVA III DoA and common MEVA III contracting aspects for each MEVA Member: a) ICAO submit the MEVA III DoA to MEVA Member Administrations for their corresponding signature **by 8 November 2013**; and b) MEVA Members sign the MEVA III DoA **by 10 December 2013**, submitting the signed DoA to ICAO.	All Member States have signed except Mexico	Superseded
27/09 Approval For Updating Terms Of Reference Of The MEVA III Task Force Terms Of Reference	That in order to support and assist implementation of the MEVA III Network, the MEVA III TF include the following in its functions and responsibilities (Terms of Reference of the MEVA III TF): a) assist the MEVA Members, in coordination with the MEVA III Service Provider, with the timely and efficient implementation of the MEVA III Network; and b) review and inform the MEVA TMG of all deliverable documents required by MEVA III Network implementation.		Completed

Conclusion	Description	Remarks	Status
27/10 Coordination Method For MEVA III Deliverables	That in order to conduct the evaluation and processing of the MEVA III deliverables as established in the MEVA III Tender document: a) MEVA Members report any change to the existing MEVA TMG membership from their Administration to the MEVA III Coordinator and MEVA TMG Coordinator by **30 January 2014**; and b) MEVA III TF applies the Coordination Method defined as follows: a. All deliverable proposals from the MEVA III Service Provider shall be submitted to the MEVA III Coordinator and ICAO b. The MEVA III Coordinator will coordinate with the MEVA III TF Rapporteur on the evaluation and analysis of the proposal, including the exchange of clarifications with the MEVA III Service Provider c. The MEVA III TF will develop its evaluation results in a timely manner for submission for approval to MEVA TMG Members by means of email/teleconference communication d. If comments or observations by the MEVA Members are made to the evaluation results, the MEVA III TF shall carry out the necessary coordination as in item b) for clarification and, if applicable, an update on the evaluation results e. Once approval is granted by the MEVA Members, an approval notification will be submitted to the MEVA III Service Provider for application		Completed
27/11 Training And Technical Assistance For MEVA III Network Implementation Activities	That in order to implement the best operation and use of MEVA III Network resources and prevent lack of Network familiarity as well as track satisfactory results of the Site Acceptance Tests (SATs), considering the FAT and transition process to be conducted, MEVA Member Administrations: a) procure the provision of necessary training courses requested in the MEVA III Tender in their corresponding MEVA III Contract, as well as a training course in conjunction with a Network meeting event once the Network is implemented and after the cutover phase; and b) when applicable, for those that are also members of the Regional CAR RLA/09/801 Project — *Implementation of the Performance Based Air Navigation Systems in the CAR Region*, request the RLA Project's financial support for a team of MEVA Experts to track the satisfactory results of the SAT tests, considering the FAT and the transition process (estimating a three-day site visit of one MEVA Member per MEVA node) by **30 November 2013**.	a) States to inform b) The GoTeam concept has been implemented in the CAR Project	Completed
27/12 MEVA III Implementation Action Plan	That in order to i) define the major milestones and activities of the MEVA Members; ii) reflect the necessary commitments; and iii) provide an estimate of the implementation schedule for the new MEVA III Network, considering the implementation proposal by the MEVA III winning bidder, the MEVA Members: a) agree in principle with the Implementation Action Plan presented in the Appendix to this part of the report; b) commit to comply with the milestones and times indicated in this Plan; c) reflect the activities of this Plan into their own MEVA III contract; and d) report any delay or potential change to the Plan to the MEVA Members, TMG Coordinator and ICAO for subsequent discussion and analysis by the TMG Group.		Superseded

Conclusion	Description	Remarks	Status
27/13 Local Arrangements For Preparation To Implement the MEVA III Network	That, in order to streamline and facilitate MEVA III Network implementation, the MEVA Members: a) start reviewing the necessary local requirements (space, air conditioning, etc.) for implementing their MEVA III node in accordance with the Technical Proposal for MEVA III and the MEVA III site visit observations (if applicable); and b) report on the progress of this review to the MEVA TMG and ICAO by the next TMG teleconference.		Completed

APPENDIX B

MEVA II CONTRACT INFORMATION **Ver: 28 May 2014**

SITE NAME	CHARGE CODE	Equipment Owner	Dish Antenna	RF Chain	START DATE	CURRENT OPTION PERIOD END DATE	ONE YEAR OPTION PERIODS REMAINING THRU	REMARKS
Aruba, Aruba	K8003.0002	SES	Customer	SES	27-Feb-2006	26 Feb 2014	26 Feb 2016	
Bahamas, Freeport	K8003.0003	SES	Customer	SES	1-Aug-2006	31-Jul-2014	31-Jul-2016	Within the 60 day window stating Saturday, 1 Jun 2014
Bahamas, Nassau	K8003.0004	SES	Customer	SES	1-Oct-2006	30-Sep-2014	30-Sep-2016	
Cayman Islands, Grand Cayman	K8003.0005	SES	Customer	SES	2-Nov-2005	1 Nov 2014	1 Nov 2015	
COCESNA, Honduras, Tegucigalpa	K8003.0006	Customer	Customer	Customer	26-Oct-2006	25-Oct 2014	25 Oct 2014	
Cuba, Havana	K8003.0007	SES	Customer	SES	1-Dec-2006	30-Nov-2014	30-Nov-2016	
Dominican Republic, Santo Domingo	K8003.0008	SES	Customer	SES	1-Dec-2006	30-Nov-2014	30-Nov-2016	St Domingo own the 3.8M antenna
Haiti, Port-Au-Prince	K8003.0009	SES	Customer	SES	18-Oct 2005	17-Oct-2014	17-Oct-2015	
Curacao	K8003.0010	SES	Customer	SES	1-Dec-2006	30-Nov-2014	30-Nov-2016	
Sint Maarten	K8003.0011	SES	Customer	SES	I Jan 2006	31-Dec-2014	31-Dec-2016	
Panama, Panama	K8003.0012	SES	Customer	SES	1-Jan-2007	31-Dec-2014	31-Dec-2017	
Jamaica, Kingston	K8003.0013	SES	Customer	SES	17-Nov 2005	16-Nov-2014	16 Nov 2016	
Mexico, Merida	K8003.0014	Customer	Customer	Customer	No current MEVA II contract			
FAA (PO: 22501237)	K8003.0001							Option Year - 8 Executed
Puerto Rico		SES	Customer	SES	1-Oct-2013	30-Sep-2014	30-Sep-2015	
Atlanta		SES	SES	SES		30-Sep-2014	30-Sep-2015	According with contract the equipment is leased. CLINs X029 and X031 were added to reflect the lease option selected.
Miami		SES	SES	SES	1-Oct-2013	30-Sep-2014	30-Sep-2015	
ICAO REDDIG (PO: 22501062)								Received an ATP on 6 Mar 2014, SWOC Approved 1 Apr 2014
Caracas		Customer	Customer	Customer	01-Apr-14	30-Sep-14	30-Sep-14	
Bogota		Customer	Customer	Customer	01-Apr-14	30-Sep-14	30-Sep-14	

APPENDIX C

MEVA II NEW CIRCUITS PENDING ACTIVATION as per MEVATMG/28

Updated: 2 Jun 2014

Requestor Site	Type of Circuit	TO	Date Requested	Submitted Quote	Received "OK" Process	Submitted Serv. Order	Received Signed SO	Received Init. Payment	Placed Equip. Order	Received Equipment	Shipped to Site	Installed & Tested	Loaded Config. Files	Executed Config. Files	System Checked	Circuit Activation	Start of Service	Remarks
Havana, Cuba																		
	1 ea. AMHS 64 Kbps	Atlanta, GA	27-Feb-2012	10-Sep-2012	21-Sep-2012	18-Oct-12	22-Mar-2013	29-Apr-2013	5/3/2013 PO-0000796	8-Jul-2013	2-Oct-2013	3-Oct-2013	3-Oct-2013	3-Oct-2013	4-Oct-2013	4-Oct-2013	1-Nov-2013	Ready for Testing
	1 ea. RADAR 9.6 Kbps	Kingston, Jamaica	27-Feb-2012	10-Sep-2012	21-Sep-2012	18-Oct-12	22-Mar-2013	29-Apr-2013	5/3/2013 PO-0000796	8-Jul-2013	2-Oct-2013	3-Oct-2013	3-Oct-2013	3-Oct-2013	4-Oct-2013	4-Oct-2013	1-Nov-2013	Waiting on customer equipment installation and notification to SES
	1 ea. RADAR 9.6 Kbps	COCESNA, Honduras	27-Feb-2012	10-Sep-2012	21-Sep-2012	18-Oct-12	22-Mar-2013	29-Apr-2013	5/3/2013 PO-0000796	8-Jul-2013	2-Oct-2013	3-Oct-2013	3-Oct-2013	3-Oct-2013	4-Oct-2013	4-Oct-2013	1-Nov-2013	Ready for Activation. Already tested
Curacao																		
	1 ea. Voice Shout Down	Kingston, Jamaica	1-Oct-2012	10-Oct-2012	23-Oct-2012	SO - 0004 26-Oct-2012	13-Dec-2012	15-Apr-2023	25 Apr 2013 PO-0000794	9-Jul-2013	23-Jul-2013	24-Jul-2013	24-Jul-2013	14-Nov-2013	14-Nov-2013	14-Nov-2013	1-Dec-2013	Ready for Activation. Already tested
	1 ea. AMHS 1/2 Circuit	Atlanta	1-Oct-2012	22-Oct-2012	23-Oct-2012	SO - 0004 26-Oct-2012	13-Dec-2012	15-Apr-2023	25 Apr 2013 PO-0000794	9-Jul-2013	23-Jul-2013	24-Jul-2013	24-Jul-2013					Waiting on Atlanta to schedule activation
San Juan, PR																		
	1 ea. Radar 9.6kbps (new)	Sint Maarten	29-Jan-2013	21-Feb-2013														Need to verify hardware and load new configuration files
COCESNA																		
	1 ea. RADAR 9.6 Kbps	Cuba		10-Sep-2012	1-Oct-2012	SO-0002 22-Oct-2012 R 5-Nov-2012	18-Dec-2012	27-Jun-2013	N/A	N/A	N/A	N/A	7-Jan-2014	7-Jan-2014	6-Feb-2014	7 Fe 2014	1-May-2014	Ready for Activation. Already tested
Jamaica																		
	1 ea. Voice Shout Down	Curacao		10-Oct-2012	19-Oct-2012	SO-0005 19-Oct=2012	22-Oct-2012	29-Aug-2013	27-Nov-2012	29-Nov-2012	3-Dec-2012	12-Dec-2012	12-Dec-2012	30-Oct-2013	30-Oct-2013	14-Nov-2013	1-Dec-2013	Ready for Activation. Already tested

MEVA II NEW CIRCUITS PENDING ACTIVATION as per MEVATMG/28

Updated: 2 Jun 2014

Requestor Site	Type of Circuit	TO	Date Requested	Submitted Quote	Received "OK" Process	Submitted Serv. Order	Received Signed SO	Received Init. Payment	Placed Equip. Order	Received Equipment	Shipped to Site	Installed & Tested	Loaded Config. Files	Executed Config. Files	System Checked	Circuit Activation	Start of Service	Remarks
	1 ea. Radar 9.6Kbps	Cuba		10-Oct-2012	19-Oct-2012	SO-000519-Oct=2012	22-Oct-2012	29-Aug-2013	27-Nov-2012	29-Nov-2012	3-Dec-2012	12-Dec-2012	12-Dec-2012	30-Oct-2013	30-Oct-2013	4-Oct-2013	1-Dec-2013	Waiting on customer equipment installation and notification to SES
	1 ea. AMHS 1/2 Circuit	Atlanta		10-Oct-2012	18-Oct-2012	SO-000417-Oct-2012	18-Oct-2012	27-Nov-2012	29-Nov-2012	3-Dec-2012	12-Dec-2012	12-Dec-2012	14-Dec-2012	14-Dec-2012	17-Dec-2012			Waiting on Atlanta to schedule activation
FAA Atlanta	1 ea. AMHS 1/2 Circuit (Port 5)	Havana, Cuba		6-Jan-2011	7-Jan-2013	N/A	N/A		1-Oct-2012	12-Oct-2012	1-Nov-2012	15-Nov-2012	25-Mar-2014	26-Mar-2014	26-Mar-2014	26-Mar-2014		Ready for testing
	1 ea. AMHS 1/2 Circuit (Port 3)	Curacao		6-Jan-2011	7-Jan-2013	N/A	N/A		1-Oct-2012	12-Oct-2012	1-Nov-2012	15-Nov-2012						Waiting on Atlanta to schedule activation & testing
	1 ea. AMHS 1/2 Circuit (Port 1)	Jamaica	1-Jan-2011	6-Jan-2011	7-Jan-2013	N/A	N/A		1-Oct-2012	12-Oct-2012	1-Nov-2012	15-Nov-2012						Waiting on Atlanta to schedule activation & testing
	1 ea. AMHS 1/2 Circuit (Port 4)	Saint Marten		6-Jan-2011	7-Jan-2013	N/A	N/A		1-Oct-2012	12-Oct-2012	1-Nov-2012	15-Nov-2012						Waiting on Atlanta to schedule activation & testing
St. Maarten	1 ea. AMHS 1/2 Circuit	FAA Atlanta	5-Mar-2013	7-Mar-2013	7-Mar-2013	SO-000322-Feb-2013 R 12-Mar-2013	20-May-2013	6-Jun-2013	6/19/2013 PO-0000824	8-Jul-2013	12-Jul-2013	9-Oct-2013	9-Oct-2013	9-Oct-2013	9-Oct-2013	14-Nov-2013	14-Nov-2013	Waiting on customer equipment installation
	1 ea. Radar 9.6kbps (new)	San Juan	29-Jan-2013	31-Jan-2013	18-Feb-2013	SO-000322-Feb-2013 R 12-Mar-2013	20-May-2013	6-Jun-2013	6/19/2013 PO-0000824	8-Jul-2013	12-Jul-2013	9-Oct-2013	9-Oct-2013	9-Oct-2013	9-Oct-2013	14-Nov-2013	14-Nov-2013	Waiting on customer equipment installation and San Juan hardware check and configuration

Node Origin	Station Type	Options	Node Dest.	Ext.	Dest Ext.	Service	Data Rate	Sync/ Asvnc	Interface	Implementation	Note
Aruba	Dual Chain	d/UPS/Measuring	Miami	2900		SWV	16000		FXS		
Aruba			Miami	2901		SWV	16000		FXS		
Aruba			Miami	2902		SWV	16000		FXS		
~~Aruba~~			~~Miami~~	~~2903~~		~~SWV~~	~~16000~~		~~FXS~~		~~one circuit less to save interface cards~~
Aruba			Teleport		2400	SWV			FXS		Maintenance Line provided by the Service Provider
Aruba			Curacao			VSD	16000		E&M		additional E&M Card (29.05.) -> additional FAD required.
~~Aruba~~			~~Caracas --> Josefa Camejo~~			~~VSD~~	~~16000~~		~~E&M~~		~~specified in 12.14 MEVA-REDDIG Interconnection~~
Aruba			Atlanta			AFTN	9600	sync	RS232/V.24		
Atlanta	Dual Chain	Leased	Teleport		2400	SWV			FXS		Maintenance Line provided by the Service Provider
Atlanta			Aruba			AFTN	9600	sync	serial, RS232		
Atlanta			Jamaica			AFTN	9600	sync	serial, RS232		
Atlanta			Nassau			AFTN	9600	sync	serial, RS232		
Atlanta			Haiti			AFTN	9600	sync	serial, RS232		
Atlanta			Dom. Rep.			AFTN	9600	sync	serial, RS232		declared as obsolete on the Dom Rep. Side
Atlanta			COCESNA			AFTN	9600	sync	serial, RS232		
Atlanta			Panama			AFTN	9600	sync	serial, RS232		
Atlanta			Grand Cayman			AFTN	9600	sync	serial, RS232		declared as obsolete on the Grand Cayman side
Atlanta			Cuba			AFTN	19200	sync	serial, RS232		
Atlanta			Curacao			AFTN	9600	sync	serial, RS232		
Atlanta			St. Maarten			AFTN	9600	sync	serial, RS232		
Atlanta			Bogota			AFTN	9600	sync	serial, RS232		Extended to Lima
Atlanta			Bogota			AFTN	9600	sync	serial, RS232		Extended to Manaus
Atlanta			Caracas			AFTN	9600	sync	serial, RS232		
Atlanta			Dom. Rep.			AMHS IP	64000	async	V.35		
Atlanta			St. Maarten			AMHS IP	64000	async	V.35		
Atlanta			Curacao			AMHS IP	64000	async	V.35		
Atlanta			COCESNA			AMHS IP	64000	async	V.35		
Atlanta			Cuba			AMHS IP	64000	async	V.35		
Atlanta			Jamaica			AMHS IP	64000	sync	V.35		
Atlanta			Grand Cayman			AMHS IP	64001	sync	V.35		apparently decided on the Grand Cayman side
Bogota	Single Chain	Leased	Panama			AFTN	2400	async	RS232		
Bogota			Atlanta			AFTN	9600	sync	RS232		from Lima
Bogota			Atlanta			AFTN	9600	sync	RS232		from Manaus
Bogota			Multiple	4545		SWV	16000		E1		Bogota (Sector Sur)
Bogota			Multiple	4540		SWV	16000		E1		Bogota (Sector Norte)
Bogota			Multiple	4531		SWV	16000		E1		Barranquilla
Bogota			Multiple	4560		SWV	16000		E1		Bogota (Supervisor)
Bogota			Multiple	4541		SWV	16000		E1		Cali
Bogota			Multiple	4542		SWV	16000		E1		Medellin (Rio Negro)
Bogota			Multiple	4547		SWV	16000		E1		San Andres
Bogota			Teleport		2400	SWV	16000		E1		Maintenance Line provided by the Service Provider
Bogota			Curacao			VSD	16000		E1		from Barranquilla (specified in 12.14 MEVA-REDDIG Interconnection)
Bogota			Jamaica			VSD	16000		E1		from Barranquilla (specified in 12.14 MEVA-REDDIG Interconnection)
Bogota			Pananma			VSD	16000		E1		from Barranquilla (specified in 12.14 MEVA-REDDIG Interconnection)
Caracas	Single Chain	Lease	Atlanta			AFTN	9600	sync	RS232		
Caracas			Curacao			AFTN	2400	async	RS232		
Caracas			Multiple	8001		SWV	16000		FXS		Curacao
Caracas			Multiple	8002		SWV	16000		FXS		Aruba
Caracas			Multiple	8003		SWV	16000		FXS		San Juan

Caracas			Teleport		2400	SWV	16000		FXS		Maintenance Line provided by the Service Provider
Caracas			Aruba			VSD	16000		E&M ?		from Josefa Camejo (specified in 12.14 MEVA-REDDIG Interconnection)
Caracas			Curacao			VSD	16000		E&M ?		specified in 12.14 MEVA-REDDIG Interconnection
Caracas			San Juan			VSD	16000		E&M ?		specified in 12.14 MEVA-REDDIG Interconnection
COCESNA	Single Chain	Leased	Multiple	2100		SWV	16000		FXS		
COCESNA			Multiple	2101		SWV	16000		FXS		
COCESNA			Multiple	2102		SWV	16000		FXS		
COCESNA			Teleport		2400	SWV	16000		FXS		Maintenance Line provided by the Service Provider
COCESNA			Atlanta			AFTN	9600	sync	al, RS232 (29.5.)		
COCESNA			Atlanta			AMHS IP	64000	async	?		
COCESNA			Cuba			RADAR	9600	sync	al, RS232 (29.9.)		
COCESNA			Jamaica			RADAR	9600	sync	RS232		other direction of new circuit introduced in Jamaica
COCESNA			Jamaica			RRS	16000	sync	E&M (PTT)		Remote Radio Service
Cuba	Single Chain	ed/Spare Part Pac	Multiple	2300		SWV	16000		E&M		only E&M, no FXS (29.05.)
Cuba			Multiple	2301		SWV	16000		E&M		
Cuba			Multiple	2302		SWV	16000		E&M		
Cuba			Multiple	2303		SWV	16000		E&M		
Cuba			Multiple	2304		SWV	16000		E&M		
Cuba			Multiple	2305		SWV	16000		E&M		
Cuba			Teleport		2400	SWV	16000		E&M		Maintenance Line provided by the Service Provider
Cuba			Jamaica	2352	3051	VSD	16000		E&M		
Cuba			Jamaica	2353	3052	VSD	16000		E&M		
Cuba			Merida	TBD	TBD	VSD	16000		E&M		
Cuba			Miami	2350	1951	VSD	16000		E&M		
Cuba			Miami	2351	1952	VSD	16000		E&M		
Cuba			Miami	TBD	TBD	VSD	16000		E&M		
Cuba			Miami	2354	1957	VSD	16000		E&M		
Cuba			Merida			AFTN	9600	async	serial, V.24		
Cuba			Atlanta			AFTN	9600	sync	serial, V.24		
Cuba			Atlanta			AMHS IP	64000	async	29.5. for all seriall ports)		
Cuba			COCESNA			RADAR	9600	sync	serial, V.24		
Cuba			Jamaica			RADAR	9600	sync	serial, V.24		
Curacao	Single Chain	Leased	Multiple	2200		SWV	16000		E&M		
Curacao			Multiple	2201		SWV	16000		E&M		
Curacao			Multiple	2202		SWV	16000		E&M		
Curacao			Teleport		2400	SWV	16000		FXS		Maintenance Line provided by the Service Provider
Curacao			Aruba			VSD	16000		E&M		
~~Curacao~~			~~Bogotá~~			~~VSD~~	~~16000~~		~~delete (29.5.)~~		~~to Barranquilla (specified in 12.14 MEVA-REDDIG Interconnection)~~
Curacao			Caracas			VSD	16000		E&M		
Curacao			Dom Rep.			VSD	16000		E&M		
Curacao			Jamaica			VSD	16000		E&M		
Curacao			Atlanta			AFTN	9600	sync	serial, RS232		
Curacao			Atlanta			AMHS IP	64000	async	Ethernet		
Curacao			Caracas			AFTN	2400	async	serial, RS232		
Curacao			Dom Rep.			AIDC	16000	sync	, currently not implemente		AIDC
Curacao			Dom Rep.			Radar	9600	sync	serial, RS232		Data Radar
Dom Rep.	Dual Chain	ed/Spare Part Pac	Multiple	2600		SWV	16000		FXS		
Dom Rep.			Multiple	2601		SWV	16000		FXS		
Dom Rep.			Multiple	2602		SWV	16000		FXS		

Dom Rep.			Multiple	2603		SWV	16000		FXS		
Dom Rep.			Multiple	2604		SWV	16000		FXS		
Dom Rep.			Multiple	2605		SWV	16000		FXS		
Dom Rep.			Teleport		2400	SWV	16000		FXS		Maintenance Line provided by the Service Provider
Dom Rep.			Curacao			VSD	16000		E&M		
Dom Rep.			Haiti			VSD	16000		E&M		
Dom Rep.			Miami	2650		VSD	16000		E&M		
~~Dom Rep.~~			~~Miami~~		~~1956 (lösche~~	~~VSD~~	~~16000~~		~~E&M~~		
~~Dom Rep.~~			~~Miami~~		~~löschen~~	~~VSD~~	~~16000~~		~~E&M~~		
Dom Rep.			San Juan		1956	VSD	16000		E&M		
Dom Rep.			San Juan			VSD	16000		E&M		
Dom Rep.			Miami			Radar	9600	sync	serial, RS232		Data Radar
Dom Rep.			San Juan			Radar	9600	sync	serial, RS232		Data Radar
Dom Rep.			Curacao			Radar	9600	sync	serial, RS232		Data Radar
Dom Rep.			Curacao			AIDC	16000	sync	serial, RS232		AIDC
~~Dom Rep.~~			~~Atlanta~~			~~AFTN~~	~~9600~~	~~sync~~	~~serial, X.21?~~	~~schen (29.5.)~~	
Dom Rep.			Atlanta			AMHS IP	64000	async	V.35 (29.5.		
Freeport	Single Chain	Leased	Nassau			AFTN	9600	sync	t used at the moment). 29		will be discussed later (29.5.)
Freeport			Multiple	1010		SWV	16000		FXS		
Freeport			Multiple	1001		SWV	16000		FXS		
Freeport			Multiple	1002		SWV	16000		FXS		
Freeport			Multiple	1003		SWV	16000		FXS		
Freeport			Teleport		2400	SWV	16000		FXS		Maintenance Line provided by the Service Provider
Grand Cayman						AMHS	64000		Ethernet		via Ethernet, 29.5, additional bandwidth required.
Grand Cayman	Single Chain	are Part Package	Multiple	2500		SWV	16000		FXS		
Grand Cayman			Multiple	2501		SWV	16000		FXS		
Grand Cayman			Multiple	2502		SWV	16000		FXS		
Grand Cayman			Multiple	2503		SWV	16000		FXS		
Grand Cayman			Multiple	2504		SWV	16000		FXS		
Grand Cayman			Multiple	2505		SWV	16000		FXS		
Grand Cayman			Teleport		2400	SWV	16000		FXS		Maintenance Line provided by the Service Provider
Grand Cayman			Atlanta			AFTN	9600	sync	currently, maybe changed in the future		
Grand Cayman			Jamaica	2550	3050	VSD	16000		E&M (29.05.)		additional FAD Chassis required.
Haiti	Dual Chain	Leased	Multiple	2800		SWV	16000		FXS		
Haiti			Multiple	2801		SWV	16000		FXS		
Haiti			Multiple	2802		SWV	16000		FXS		
Haiti			Multiple	2803		SWV	16000		FXS		
Haiti			Teleport		2400	SWV	16000		FXS		Maintenance Line provided by the Service Provider
Haiti			Dom Rep.			VSD	16000		E&M		
Haiti			Jamaica			VSD	16001		E&M		
Haiti			Miami	2850	1950	VSD	16002		E&M		
Haiti			Atlanta			AFTN	9600	sync	l, RS232 (29.05.)		
Jamaica	Single Chain	ed/Spare Part Pac	Multiple	3000		SWV	16000		FXS		
Jamaica			Multiple	3001		SWV	16000		FXS		
Jamaica			Multiple	3002		SWV	16000		FXS		
Jamaica			Multiple	3003		SWV	16000		FXS		
Jamaica			Teleport		2400	SWV	16000		FXS		Maintenance Line provided by the Service Provider
Jamaica			Bogota			VSD	16000		E&M		Extended to Barranquilla
Jamaica			Curacao			VSD	16000		E&M		

Jamaica			Grand Cayman	3050	2550	VSD	16000		E&M		
Jamaica			Haiti			VSD	16000		E&M		
Jamaica			Panama			VSD	16000		E&M		
Jamaica			Cuba	3051	2352	VSD	16000		E&M		
Jamaica			Cuba	3052	2353	VSD	16000		E&M		
Jamaica			Cuba			RADAR	9600	sync	serial, RS232		Data Radar
Jamaica			COCESNA			RADAR	9600	sync	serial, RS232		Data Radar
Jamaica			COCESNA			RRS	16000	sync	E&M (PTT)		Remote Radio Service
Jamaica			Atlanta			AFTN	9600	sync	al, RS232 (29.5.)		
Jamaica			Atlanta			AMHS IP	64000	async	V.35 (29.5.)		
Miami	Dual Chain	Leased	Multiple	1900		SWV	16000		FXS		
Miami			Multiple	1901		SWV	16000		FXS		
Miami			Multiple	1902		SWV	16000		FXS		
Miami			Multiple	1903		SWV	16000		FXS		
Miami			Multiple	1904		SWV	16000		FXS		
Miami			Multiple	1905		SWV	16000		FXS		
Miami			Multiple	1906		SWV	16000		FXS		
Miami			Multiple	1907		SWV	16000		FXS		
Miami			Multiple	1908		SWV	16000		FXS		
Miami			Multiple	1909		SWV	16000		FXS		
Miami			Multiple	1910		SWV	16000		FXS		
Miami			Multiple	1911		SWV	16000		FXS		
Miami			Multiple	1912		SWV	16000		FXS		
Miami			Multiple	1913		SWV	16000		FXS		
Miami			Cuba	1951	2350	VSD	16000		E&M		
Miami			Cuba	1952	2351	VSD	16000		E&M		
Miami			Cuba	TBD	TBD	VSD	16000		E&M		
Miami			Cuba	1957	2354	VSD	16000		E&M		
Miami			Dom. Rep.	1956		VSD	16000		E&M		
~~Miami~~			~~Dom. Rep.~~			~~VSD~~	~~16000~~		~~FXS (delete, 29.05)~~		
~~Miami~~			~~Dom. Rep.~~			~~VSD~~	~~16000~~		~~FXS (delete, 29.05)~~		
Miami			Haiti	1950	2850	VSD	16000		E&M		
Miami			Nassau	1954		VSD	16000		E&M		
Miami			Multiple	1700		SWV	16000		FXS		Service extended to Tamiami AFSS
Miami			Multiple	1701		SWV	16000		FXS		Service extended to Tamiami AFSS
Miami			Multiple	1702		SWV	16000		FXS		Service extended to Tamiami AFSS
Miami			St. Maarten	1953	3550	VSD	16000		E&M		
Miami			Teleport		2400	SWV	16000		FXS		Maintenance Line provided by the Service Provider
Miami			Dom. Rep.			RADAR	9600	sync	al, RS232 (29.5.)		Data Radar
Nassau	Single Chain	Leased	Multiple	2700		SWV	16000		FXS		
Nassau			Multiple	2701		SWV	16000		FXS		
Nassau			Multiple	2702		SWV	16000		FXS		
Nassau			Multiple	2703		SWV	16000		FXS		
Nassau			Multiple	2704		SWV	16000		FXS		
Nassau			Multiple	2705		SWV	16000		FXS		
Nassau			Multiple	2706		SWV	16000		FXS		
Nassau			Multiple	2707		SWV	16000		FXS		
Nassau			Teleport		2400	SWV	16000		FXS		Maintenance Line provided by the Service Provider
Nassau			Miami	2750		VSD	16000		E&M (29.5.)		additional FAD chassis required
Nassau			Atlanta			AFTN	9600	sync	RS232		
Nassau			Freeport			AFTN	9600	sync	RS232		

Nassau			Moss Town			AFTN	9600	sync	RS232		Other direction of new circuit/new site
Panama	Single Chain	eased/Spare Part	Bogota			AFTN	2400	async	serial, RS232		
Panama			Atlanta			AFTN	9600	sync	serial, RS232		
Panama			Multiple	3901		SWV	16000		FXS		
Panama			Multiple	3902		SWV	16000		FXS		
Panama			Multiple	3903		SWV	16000		FXS		
Panama			Multiple	3904		SWV	16000		FXS		
Panama			Multiple	3900		SWV	16000		FXS		
Panama			Teleport		2400	SWV	16000		FXS		Maintenance Line provided by the Service Provider
Panama			Bogotá			VSD	16000		E&M		to Barranquilla (specified in 12.14 MEVA-REDDIG Interconnection)
Panama			Jamaica			VSD	16000		E&M		
San Juan	Dual Chain	Leased	Multiple	1800		SWV	16000		FXS		Update next Monday, no actual information avauiolable(29.5.)
San Juan			Multiple	1801		SWV	16000		FXS		
San Juan			Multiple	1802		SWV	16000		FXS		
San Juan			Multiple	1803		SWV	16000		FXS		
San Juan			Multiple	1804		SWV	16000		FXS		
San Juan			Multiple	1805		SWV	16000		FXS		
San Juan			Multiple	1806		SWV	16000		FXS		
San Juan			Multiple	1807		SWV	16000		FXS		
San Juan			St. Maarten			SWV	16000		FXS		connections from E/CAR according to Q&A set 1 response 8
San Juan			St. Maarten			SWV	16000		FXS		connections from E/CAR according to Q&A set 1 response 8
San Juan			St. Maarten			SWV	16000		FXS		connections from E/CAR according to Q&A set 1 response 8
San Juan			St. Maarten			SWV	16000		FXS		connections from E/CAR according to Q&A set 1 response 8
San Juan			Teleport		2400	SWV	16000		FXS		Maintenance Line provided by the Service Provider
San Juan			Dom. Rep.			VSD	16000		E&M		
San Juan			Dom. Rep.			VSD	16000		E&M		
San Juan			St. Maarten			VSD	16000		E&M		
San Juan			Caracas			VSD	16000		E&M		specified in 12.14 MEVA-REDDIG Interconnection
San Juan			Dom. Rep.			Radar	9600	sync	serial, RS232		Data Radar
San Juan			St. Maarten			Radar	9600	sync	serial, RS232		Data Radar from PIARCO ACC and Antigua
San Juan			St. Maarten			Radar	9600	sync	serial, RS232		Data Radar from PIARCO ACC and Antigua
Service Provider			Multiple	2400		SWV	16000				Maintenance Line provided by the Service Provider
St. Maarten	Single Chain	Leased	San Juan (29.05.)	3500 (?)		SWV	16000		FXS		
St. Maarten			San Juan (29.05.)	3501 (?)		SWV	16000		FXS		
St. Maarten			Miami	waiting for conf.)		SWV	16000		FXS		
St. Maarten			Miami	waiting for conf.)		SWV	16000		FXS		
St. Maarten			Miami	3504		SWV	16000		FXS		
St. Maarten			Teleport		2400	SWV	16000		FXS		Maintenance Line provided by the Service Provider
St. Maarten			Miami	3550	1953	VSD	16000		E&M		
St. Maarten			San Juan			VSD	16000		E&M		
St. Maarten			Atlanta			AFTN	9600	sync	serial, RS232		
St. Maarten			Atlanta			AMHS IP	64000	async	thernet (29.05.)		
St. Maarten			San Juan			Radar	9600	sync	serial, RS232		Data Radar from PIARCO ACC and Antigua
St. Maarten			San Juan			Radar	9600	sync	serial, RS232		Data Radar from PIARCO ACC and Antigua
Merida	Dual Chain	Leased	Multiple	1600		SWV	16000		?		
Merida			Multiple	1600		SWV	16000		?		
Merida			Teleport		2400	SWV	16000		FXS		Maintenance Line provided by the Service Provider
Merida			Cuba	TBD	TBD	VSD	16000		E&M (29.5.)		

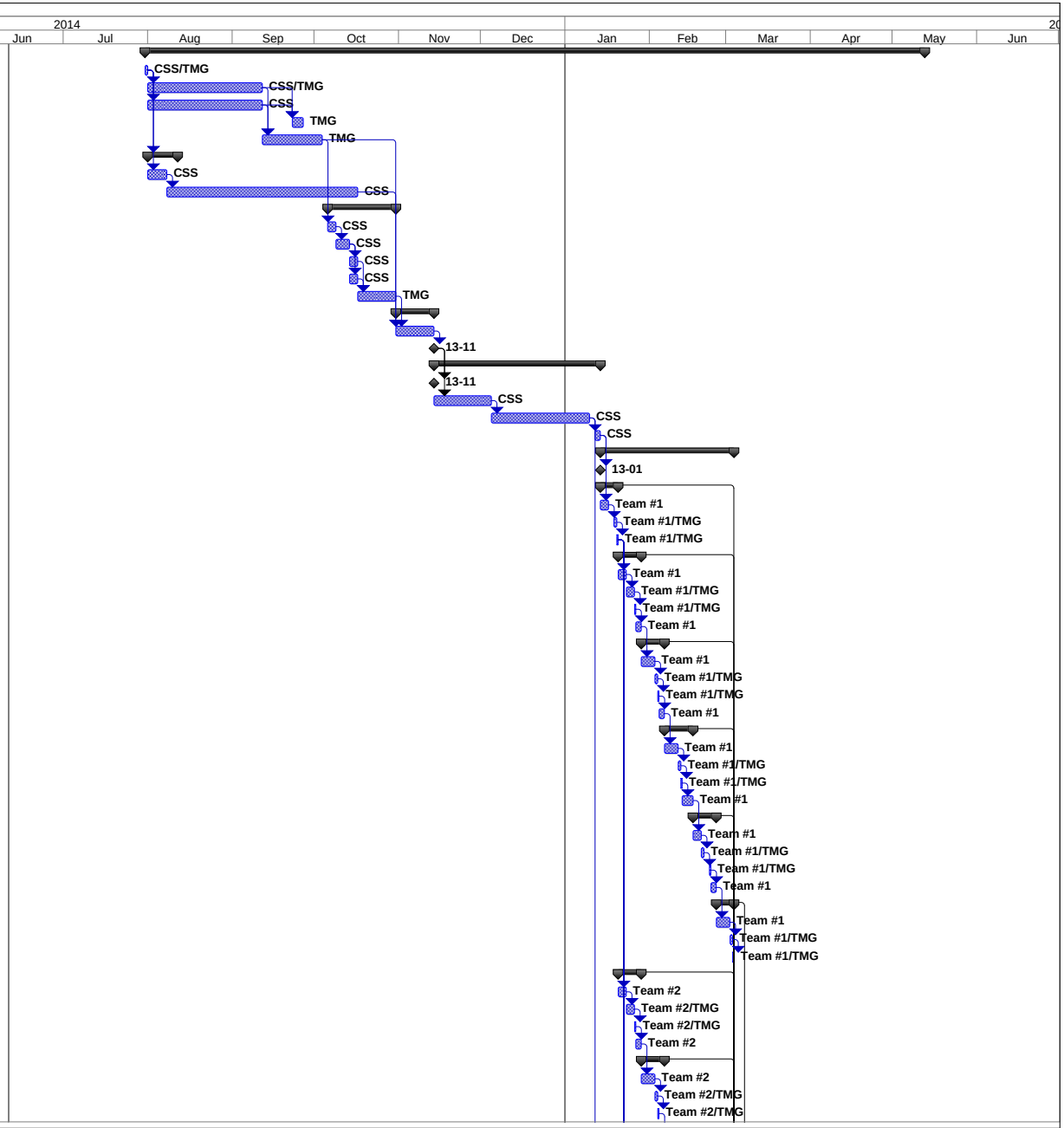
Merida			Cuba			AFTN	9600	async	rial, V.24 (29.3.		

Notes: The 16000 bps for voice circuits in the table above is for indication. MEVA III voice circuits rate is left to the Tenderer to select provided it complies with Attachment II Section C 12

loss Town (Exum	Single Chain	Leased	Freeport	?		SWV	16000		FXS		
loss Town (Exuma)			Nassau	?		SWV	16000		FXS		
loss Town (Exuma)			Nassau			AFTN	9600		X.21 (29.5.)		
Marsh Harbour	Single Chain	Leased	Freeport	?		SWV	16000		FXS		
Marsh Harbour			Nassau	?		SWV	16000		FXS		
Marsh Harbour			Nassau			AFTN	9600		X.21 (29.5.)		**remote will not be in operation -> not built. (29.5.)**
Option/not confirmed											
Tortola (BVI)	?	?	San Juan			SWV	16000		FXS		
Tortola (BVI)			San Juan			SWV	16000		FXS		
Tortola (BVI)			San Juan			SWV	16000		FXS		
Tortola (BVI)			San Juan			AFTN	9600	?	?		
Tortola (BVI)			San Juan			Radar	9600	sync	serial, RS232		

APPENDIX E TO THE REPORT
MEVA III PROJECT SCHEDULE PLAN

ID	Vorgangsname	Start	Finish
1	**Project MEVA III**	**Thu 31-07-14**	**Tue 12-05-15**
2	Signiture of Contract	Thu 31-07-14	Thu 31-07-14
3	Preparation of System Design Document (SDD)	Fri 01-08-14	Thu 11-09-14
4	Preparation of Transition Plan	Fri 01-08-14	Thu 11-09-14
5	MEVA III TF/03 Meeting	Tue 23-09-14	Fri 26-09-14
6	Document Approval by TMG	Fri 12-09-14	Fri 03-10-14
7	**Site Surveys**	**Thu 31-07-14**	**Mon 11-08-14**
30	Placement of Equipment Orders	Fri 01-08-14	Thu 07-08-14
31	Lead Time for Equipment Delivery	Fri 08-08-14	Thu 16-10-14
32	**System Engineering**	**Mon 06-10-14**	**Thu 30-10-14**
33	System Design	Mon 06-10-14	Wed 08-10-14
34	Preparation Equipment Config.	Thu 09-10-14	Mon 13-10-14
35	Preparation of SAT Procedures	Tue 14-10-14	Thu 16-10-14
36	Preparation of FAT Procedures	Tue 14-10-14	Thu 16-10-14
37	Approval of SAT & FAT documents	Fri 17-10-14	Thu 30-10-14
38	**FAT**	**Fri 31-10-14**	**Thu 13-11-14**
39	FAT, (preparation & executions)	Fri 31-10-14	Thu 13-11-14
40	Provision of FAT Documents	Thu 13-11-14	Thu 13-11-14
41	**Delivery**	**Thu 13-11-14**	**Tue 13-01-15**
42	Provision of Shipment Documents	Thu 13-11-14	Thu 13-11-14
43	Equipment Shipping	Fri 14-11-14	Thu 04-12-14
44	Customs Clearing	Fri 05-12-14	Fri 09-01-15
45	Equipment Shipping to Sites	Mon 12-01-15	Tue 13-01-15
46	**Installation**	**Tue 13-01-15**	**Tue 03-03-15**
47	Miami Newcom Teleport installation	Tue 13-01-15	Tue 13-01-15
48	**Atlanta (Master)**	**Wed 14-01-15**	**Tue 20-01-15**
49	Onsite Installation	Wed 14-01-15	Fri 16-01-15
50	OJT On the Job Training for Customer	Mon 19-01-15	Mon 19-01-15
51	SAT	Tue 20-01-15	Tue 20-01-15
52	**Cuba**	**Tue 20-01-15**	**Wed 28-01-15**
53	Onsite Installation	Tue 20-01-15	Fri 23-01-15
54	OJT On the Job Training for Customer	Fri 23-01-15	Mon 26-01-15
55	SAT	Mon 26-01-15	Mon 26-01-15
56	Travelling	Tue 27-01-15	Wed 28-01-15
57	**Bahamas (Nassau)**	**Thu 29-01-15**	**Fri 06-02-15**
58	Onsite Installation	Thu 29-01-15	Mon 02-02-15
59	OJT On the Job Training for Customer	Tue 03-02-15	Tue 03-02-15
60	SAT	Wed 04-02-15	Wed 04-02-15
61	Travelling	Wed 04-02-15	Fri 06-02-15
62	**Bahamas (Freeport)**	**Fri 06-02-15**	**Mon 16-02-15**
63	Onsite Installation	Fri 06-02-15	Wed 11-02-15
64	OJT On the Job Training for Customer	Wed 11-02-15	Thu 12-02-15
65	SAT	Thu 12-02-15	Thu 12-02-15
66	Travelling	Fri 13-02-15	Mon 16-02-15
67	**Dominican Republic (Santo Domingo)**	**Tue 17-02-15**	**Wed 25-02-15**
68	Onsite Installation	Tue 17-02-15	Thu 19-02-15
69	OJT On the Job Training for Customer	Fri 20-02-15	Fri 20-02-15
70	SAT	Mon 23-02-15	Mon 23-02-15
71	Travelling	Mon 23-02-15	Wed 25-02-15
72	**Haiti (Port au Prince)**	**Wed 25-02-15**	**Tue 03-03-15**
73	Onsite Installation	Wed 25-02-15	Mon 02-03-15
74	OJT On the Job Training for Customer	Mon 02-03-15	Tue 03-03-15
75	SAT	Tue 03-03-15	Tue 03-03-15
76	**Aruba**	**Tue 20-01-15**	**Wed 28-01-15**
77	Onsite Installation	Tue 20-01-15	Fri 23-01-15
78	OJT On the Job Training for Customer	Fri 23-01-15	Mon 26-01-15
79	SAT	Mon 26-01-15	Mon 26-01-15
80	Travelling	Tue 27-01-15	Wed 28-01-15
81	**Curaçao**	**Thu 29-01-15**	**Fri 06-02-15**
82	Onsite Installation	Thu 29-01-15	Mon 02-02-15
83	OJT On the Job Training for Customer	Tue 03-02-15	Tue 03-02-15
84	SAT	Wed 04-02-15	Wed 04-02-15

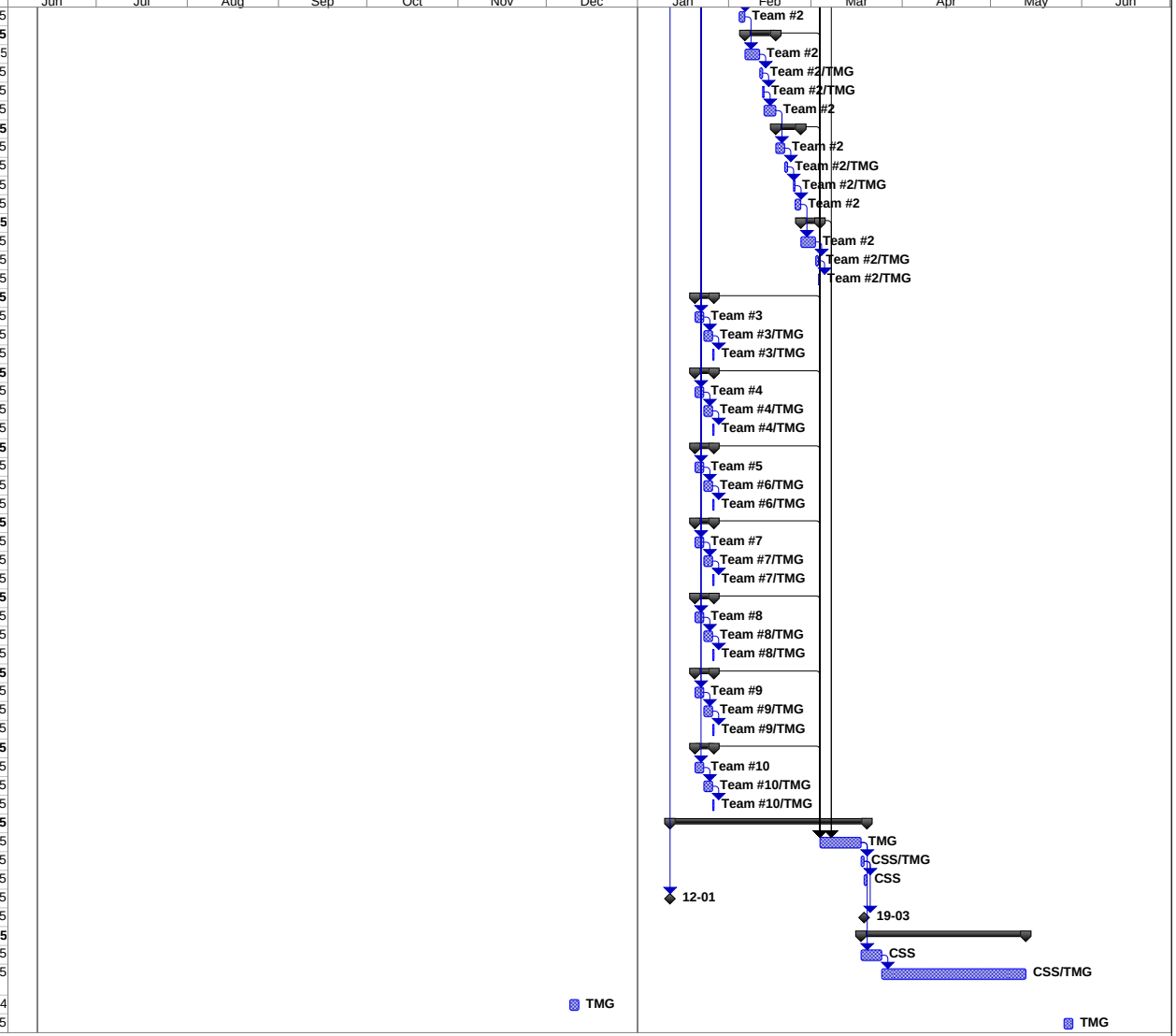


Projekt: MEVA III - Project Plan
Datum: Wed 11-06-14

Vorgang	Projektsammelvorgang	Inactive Task	Duration-only	Finish-only			
Unterbrechung	Externe Vorgänge	Inactive Milestone	Manual Summary Rollup	In Arbeit			
Meilenstein	Externer Meilenstein	Inactive Summary	Manual Summary	Stichtag			
Sammelvorgang	Inactive Task	Manual Task	Start-only				

APPENDIX E TO THE REPORT
MEVA III PROJECT SCHEDULE PLAN

ID	Vorgangsname	Start	Finish
85	Travelling	Wed 04-02-15	Fri 06-02-15
86	**Jamaica (Kingston)**	**Fri 06-02-15**	**Mon 16-02-15**
87	Onsite Installation	Fri 06-02-15	Wed 11-02-15
88	OJT On the Job Training for Customer	Wed 11-02-15	Thu 12-02-15
89	SAT	Thu 12-02-15	Thu 12-02-15
90	Travelling	Fri 13-02-15	Mon 16-02-15
91	**St. Maarten (Philipsburg)**	**Tue 17-02-15**	**Wed 25-02-15**
92	Onsite Installation	Tue 17-02-15	Thu 19-02-15
93	OJT On the Job Training for Customer	Fri 20-02-15	Fri 20-02-15
94	SAT	Mon 23-02-15	Mon 23-02-15
95	Travelling	Mon 23-02-15	Wed 25-02-15
96	**Caiman Islands (Georgetown)**	**Wed 25-02-15**	**Tue 03-03-15**
97	Onsite Installation	Wed 25-02-15	Mon 02-03-15
98	OJT On the Job Training for Customer	Mon 02-03-15	Tue 03-03-15
99	SAT	Tue 03-03-15	Tue 03-03-15
100	**Miami**	**Tue 20-01-15**	**Mon 26-01-15**
101	Onsite Installation	Tue 20-01-15	Fri 23-01-15
102	OJT On the Job Training for Customer	Fri 23-01-15	Mon 26-01-15
103	SAT	Mon 26-01-15	Mon 26-01-15
104	**Bogota**	**Tue 20-01-15**	**Mon 26-01-15**
105	Onsite Installation	Tue 20-01-15	Fri 23-01-15
106	OJT On the Job Training for Customer	Fri 23-01-15	Mon 26-01-15
107	SAT	Mon 26-01-15	Mon 26-01-15
108	**COCESNA (Honduras/Tegucigalpa)**	**Tue 20-01-15**	**Mon 26-01-15**
109	Onsite Installation	Tue 20-01-15	Fri 23-01-15
110	OJT On the Job Training for Customer	Fri 23-01-15	Mon 26-01-15
111	SAT	Mon 26-01-15	Mon 26-01-15
112	**Mexico (Merida)**	**Tue 20-01-15**	**Mon 26-01-15**
113	Onsite Installation	Tue 20-01-15	Fri 23-01-15
114	OJT On the Job Training for Customer	Fri 23-01-15	Mon 26-01-15
115	SAT	Mon 26-01-15	Mon 26-01-15
116	**Panama (Panama City)**	**Tue 20-01-15**	**Mon 26-01-15**
117	Onsite Installation	Tue 20-01-15	Fri 23-01-15
118	OJT On the Job Training for Customer	Fri 23-01-15	Mon 26-01-15
119	SAT	Mon 26-01-15	Mon 26-01-15
120	**Puerto Rico (San Juan)**	**Tue 20-01-15**	**Mon 26-01-15**
121	Onsite Installation	Tue 20-01-15	Fri 23-01-15
122	OJT On the Job Training for Customer	Fri 23-01-15	Mon 26-01-15
123	SAT	Mon 26-01-15	Mon 26-01-15
124	**Venezuela (Caracas)**	**Tue 20-01-15**	**Mon 26-01-15**
125	Onsite Installation	Tue 20-01-15	Fri 23-01-15
126	OJT On the Job Training for Customer	Fri 23-01-15	Mon 26-01-15
127	SAT	Mon 26-01-15	Mon 26-01-15
128	**NAT (Network Acceptance Test)**	**Mon 12-01-15**	**Thu 19-03-15**
129	Switch-over of active connections	Wed 04-03-15	Tue 17-03-15
130	Shut down of MEVA II	Wed 18-03-15	Wed 18-03-15
131	Switch to final modulation & coding of MEVA III network	Thu 19-03-15	Thu 19-03-15
132	Start of Space Segment Contract	Mon 12-01-15	Mon 12-01-15
133	Start of Service Charges	Thu 19-03-15	Thu 19-03-15
134	**General**	**Wed 18-03-15**	**Tue 12-05-15**
135	As-built Documentation to Sites	Wed 18-03-15	Tue 24-03-15
136	Level 2/restauration Customer Trainings / date / time / amount tbd.	Wed 25-03-15	Tue 12-05-15
137	MEVA TMG/29 Meeting	Tue 09-12-14	Thu 11-12-14
138	MEVA TMG/30 Meeting	Tue 26-05-15	Thu 28-05-15



Projekt: MEVA III - Project Plan
Datum: Wed 11-06-14

Vorgang	Projektsammelvorgang	Inactive Task	Duration-only	Finish-only	
Unterbrechung	Externe Vorgänge	Inactive Milestone	Manual Summary Rollup	In Arbeit	
Meilenstein	Externer Meilenstein	Inactive Summary	Manual Summary	Stichtag	
Sammelvorgang	Inactive Task	Manual Task	Start-only		

APPENDIX F
MEVA III IMPLEMENTATION GO-TEAM FOR ICAO REGIONAL TECHNICAL COOPERATION PROJECT (RLA/09/801) FOR THE CARIBBEAN REGION – *"IMPLEMENTATION OF PERFORMANCE BASED AIR NAVIGATION SYSTEMS FOR THE CAR REGION"*

1. Background

The Go-Team is a mutual mechanism for supporting the development of the State's own implementation capacity (qualified staff), assisting States in the implementation of air navigation and safety matters based on the regional priorities contained in the RPBANIP (such as PBN, ATFM, SMS/SSP, aerodrome certification, AIM, AIDC, telecommunication improvements, etc.) in order to support the States through technical assistance, assessments and gap analysis, expert advice and implementation of lessons learned.

The Third Project Steering Committee Meeting approved the Implementation Go-Teams Initiative. The mechanism of these coordinated and regionally deployed Go-Teams led by ICAO NACC Regional Office allows the participation of existing regional expertise to support the implementation of regional requirements according to priorities derived from deficiencies.

2. Objectives

a) ensure that the implementation of the MEVA III node in (Project Member State/Territory) is coherent and compatible with the whole Network performance and implementation;
b) review that FAT results and Site Survey results are properly considered in the SAT tests and reflected as improvements to the MEVA III node performance;
c) check and verify that the planned circuits and services are implemented;
d) check and validate that the (Project Member State/Territory)´s MEVA III node configuration is properly implemented and operating;
e) review that as-built diagrams and other related documents are considered in the SAT; and
f) Participate with the (Project Member State/Territory) to technically assist and support the SAT.

3. Responsibilities and Composition of MEVA III Implementation Go-Team for (Project Member State/Territory).

The MEVA III Implementation Go-Team outcomes will include assistance on areas that need implementation such as:

a) Technical Analysis of the FAT and survey site results for its improvements for the SAT of MEVA III for (Project Member State/Territory) ;
b) Recommendations on the Implementation activities/Plan update/improvement;
c) Support on the actual implementation process. This would result in the engagement at a working level to coordinate and provide assistance to (Project Member State/Territory);
d) The MEVA III Implementation Go-Team will be formed by a maximum of three experts from the Project Members and ICAO NACC Regional Office;

e) The total cost associated with the MEVA III Implementation Go-Team deployment will be covered by the Regional Project; and

f) A maximum of a three day mission is authorized for MEVA III Implementation Go-Team for (Project Member State/Territory) mission in accordance with the timelines of the MEVA III Implementation Plan.

4. Procedure to Deploy the MEVA III Implementation Go-Team for (Project Member State/Territory)

- (Project Member State/Territory) requested MEVA III Implementation Go-Team from the ICAO NACC Regional Office based on Regional priorities including the scope of the request, time-frame and location
- ICAO NACC Regional Office proposes the organization of a MEVA III Implementation Go-Team based on MEVA III implementation results (FAT, Site Survey, Services contracted, etc.) of (Project Member State/Territory)
- ICAO will identify the Subject Matter Expert (SME) and his/her availability for the requested Go-Team

5. Activities required in order to meet the terms of reference for the MEVA III Implementation Go-Team.

a) monitor the status of implementation of the MEVA III node in (Project Member State/Territory);

b) assess and provide a mission report on the MEVA III SAT in (Project Member State/Territory);

c) provide necessary assistance and guidance to (Project Member State/Territory) to ensure harmonization and interoperability in line with the whole MEVA III Network;

d) provide necessary inputs to the CAR Regional Project Strategy through the monitoring of the agreed Key Performance Indicators related to MEVA III;

e) identify and review those specific deficiencies and problems that constitute major obstacles to the provision of efficient MEVA III node operation, and recommend necessary remedial actions;

f) develop proposals for the updating of MEVA Node documentation related to MEVA III, as deemed necessary;

g) monitor and review technical and operating developments in the area of MEVA III and foster their implementation in the CAR Region in a harmonized manner; and

h) foster the integrated operation of the MEVA III Node in (Project Member State/Territory) recommending as needed proper training and qualification of the MEVA III related personnel and facilities conditions.

6. Work Programme:

a) Collection of related MEVA III Implementation information (FAT, Site Survey Reports, Services contracted, system configuration, etc.);

b) assist in the conduction of MEVA III - related risk analysis and assessments when required;

c) completion and/or improvement of implementation action for implementation of MEVA III;

d) provide necessary assistance to States for implementation and sustainment of the MEVA III Node;
e) conduct other related activities to the implementation of MEVA III Node as assigned; and
f) provide mission report to ICAO NACC Regional Office.

7. Deliverables:

a) Action Plan for pending SAT matters;
b) Report of the mission including recommendations; and
c) Follow-up schedule

8. Proposed Go-Team Membership:

Implementation Go-Teams Member- MEVA III:	**State/Territory/Int Organization**	**E-mail**
ICAO Officer/ MEVA Member (Team Leader)	ICAO	
	MEVA Member	
	MEVA Member	