



ICAO

International Civil Aviation Organization
North American, Central American and Caribbean Office

WORKING PAPER

MEVA/TMG/29 — WP/05
04/12/14

Twenty-ninth MEVA Technical Management Group Meeting (MEVA/TMG/29)
Mexico City, Mexico, 9 to 12 December 2014

Agenda Item 4: MEVA III Implementation Activities
4.1 MEVA III Task Force Report and Activities

MEVA III TASK FORCE REPORT

(Presented by MEVA III Task Force Rapporteur)

EXECUTIVE SUMMARY	
This working paper presents the work that the MEVA III Task Force performed in support of the implementation of the MEVA III Network	
Action:	Suggested Actions are presented in Section 3
<i>Strategic Objectives:</i>	<ul style="list-style-type: none">• Safety• Air Navigation Capacity and Efficiency
<i>References:</i>	<ul style="list-style-type: none">• Twenty seventh Meeting of the MEVA Technical Management Group (MEVA TMG/27), Mexico City, Mexico, 14 to 16 October 2013

1. Introduction

1.1 Under CONCLUSION 27/09, the MEVA TMG Meeting approved the revised Terms of Reference of the MEVA II Task Force to include:

- a) assist the MEVA Members in coordination with the MEVA III Service Provider on the timely and efficient implementation of the MEVA III Network; and
- b) review and inform the MEVA TMG of all deliverable documents required by the MEVA III Network implementation. Review and approve those documents as required by the MEVA III RFP

1.2 The current membership of the Task Force is Cuba, Jamaica, Haiti, Mexico, Panama, United States, COCESNA and ICAO.

2. Discussion

2.1 Since the TMG/28 Meeting (Miami, United States, 28-30 May 2014), the MEVA III Task Force conducted five MEVA III TF teleconferences, three MEVA III TF / COMSOFT teleconferences, and one MEVA/TF/03 meeting during which the TF review the documentation delivered by COMSOFT.

2.3 During the MEVA/TF/03 Meeting the TF tackled the following:

- The Task Force coordinated the Dial and the Interface Plans with all MEVA Members. MEVA II; the material was included in the MEVA III SDD.
- COMSOFT presented the MEVA III website template and the Task Force provided initial comments to the website.
- The Task Force ensured that COMSOFT is aware of the particularities of the MEVA-REDDIG interconnection through the Dial and Interface Plans. COMSOFT acknowledged that it is aware of the particularities of the Aeronautical Fixed Telecommunication Network (AFTN) interconnection (X.25 async to sync) between MEVA III and REDDIG II in Bogota.

2.4 Prior to the meeting COMSOFT delivered the following documentation (available at the MEVA III Website under ICAO Secure Portal: <https://portal.icao.int/MEVA/Pages/MEVA-III-Implementation.aspx>):

- Parts of the MEVA III SDD

Name	Date modified	Type	Size
Rack diagrams	08-Oct-14 10:04 PM	File folder	
VSAT-SDD_MEVA III_TRP_V1.1	07-Oct-14 11:58 PM	Adobe Acrobat Document	474 KB
MEVA III_Projectplan_V4.9	02-Oct-14 12:03 PM	Adobe Acrobat Document	268 KB
VSAT-SDD_MEVA III_SDD_System Design Document_V1.0	30-Sep-14 1:29 PM	Adobe Acrobat Document	6,525 KB
VSAT-SDD_MEVA III_SkyWAN System Description_V1.0	30-Sep-14 1:29 PM	Adobe Acrobat Document	575 KB
MEVA III_Network-Overview_v1.7a	29-Sep-14 9:09 AM	Adobe Acrobat Document	571 KB
VSAT-SDD_MEVA III FAT-Procedure_Draft V1.0	27-Sep-14 7:37 AM	Adobe Acrobat Document	597 KB
VSAT-SDD_MEVA III SAT-Procedure Station_Draft V1.0	27-Sep-14 7:37 AM	Adobe Acrobat Document	312 KB
CalculationReport_20140828_101743	27-Sep-14 7:30 AM	Adobe Acrobat Document	13 KB
VSAT-SDD_MEVA III - Cable Plan_V1.0	27-Sep-14 7:30 AM	Adobe Acrobat Document	153 KB
VSAT-SDD_MEVA III_LB_V1.0	27-Sep-14 7:30 AM	Adobe Acrobat Document	323 KB
VSAT-SDD_MEVA III_Glossary_V1.0	27-Sep-14 7:26 AM	Adobe Acrobat Document	390 KB
VSAT-SDD_MEVA III_Security Plan_V1.0	27-Sep-14 7:26 AM	Adobe Acrobat Document	1,016 KB
VSAT-SDD_MEVA III_TSP_V1.2	27-Sep-14 7:26 AM	Adobe Acrobat Document	362 KB
VSAT-SDD_MEVA III-Statistics Template_V1.0	27-Sep-14 7:26 AM	Adobe Acrobat Document	866 KB

- MEVA III equipment manuals in soft copy

Nombre	Tamaño	Tipo	Modificado
..		File folder	
i. SKYWAN 7000 & 2570		File folder	29-Sep-14 4:24 AM
ii. Multiplexer		File folder	29-Sep-14 4:24 AM
iii. Amplifier		File folder	29-Sep-14 4:24 AM
iv. Antenna System		File folder	29-Sep-14 4:24 AM
v. C-Band Redundancy Systems		File folder	29-Sep-14 4:24 AM
vi. Switches		File folder	29-Sep-14 4:24 AM
vii. Radar Filter		File folder	29-Sep-14 4:24 AM
viii. UPS		File folder	29-Sep-14 4:24 AM

- All MEVA III nodes site surveys

Nombre	Tamaño	Tipo	Modificado
..		File folder	
Aruba		File folder	19-Sep-14 6:06 AM
Atlanta		File folder	19-Sep-14 6:07 AM
Caracas-Venezuela		File folder	29-Sep-14 6:03 AM
COCESNA - Honduras		File folder	19-Sep-14 6:09 AM
Colombia		File folder	19-Sep-14 6:11 AM
Cuba		File folder	19-Sep-14 6:12 AM
Curacao		File folder	19-Sep-14 6:14 AM
Freeport		File folder	19-Sep-14 6:14 AM
George Town		File folder	19-Sep-14 6:14 AM
Kingston		File folder	19-Sep-14 6:15 AM
Merida-Mexico		File folder	19-Sep-14 6:16 AM
Miami		File folder	19-Sep-14 6:18 AM
Nassau		File folder	19-Sep-14 6:19 AM
Panama City		File folder	19-Sep-14 6:19 AM
Port-au-Prince		File folder	19-Sep-14 6:19 AM
San Juan		File folder	19-Sep-14 6:20 AM
Santo Domingo 1		File folder	19-Sep-14 6:20 AM
Santo Domingo 2		File folder	19-Sep-14 8:15 AM
Sint Maarten		File folder	19-Sep-14 6:04 AM

2.5 As most of the deliverables are being defined as part of the SDD the Meeting agreed on the following outline of the SDD:

- Chapter 1: Network Design Document
 - Annex: SKYWAN Design Document
- Chapter 2: Network drawings
- Chapter 3: Link Budget
 - Annex: Time Division Multiple Access (TDMA) calculation
- Chapter 4: Drawings of wiring and interconnections
- Chapter 5: Equipment Rack drawings
- Chapter 6: Project Implementation schedule
- Chapter 7: Transition Plan
- Chapter 8: Training Plan
- Chapter 9: Security Plan
- Chapter 10: Reporting
- Chapter 11: Test Documentation (FAT/ SAT/ NAT)
- Chapter 12: MEVA III Website
- Chapter 13: Glossary

2.6 To ensure that all the documents are reviewed and finalized in a timely manner, the TF divided the SDD documents in 2 groups based on their impact on the network implementation:

- **Group 1:** Documentation directly related with system design, particularly, for equipment ordering and that may affect the schedule of the project:
 - Chapter 1: Network Design Document and its Annex
 - Chapter 2: Network Drawings
 - Chapter 4: Wiring and Interconnection Plan
 - Chapter 5: Equipment Rack Drawings
 - Chapter 6: Project Implementation Schedule (preliminary version related to the installation/test procedures in 2015)
- **Group 2:** Documentation that may be worked out during the shipping and preparation activities of the installations:
 - Chapter 3: Link Budget
 - Chapter 7: Transition Plan
 - Chapter 8: Training Plan
 - Chapter 9: Security Plan
 - Chapter 10: Reporting
 - Chapter 11: Test Documentation (FAT part)
 - Chapter 11: Test Documentation (SAT/NAT part)
 - Chapter 12: MEVA III Website
 - Chapter 13: Glossary

2.7 The TF reviewed, commented and drafted action items that can be found in the Final Report of the MEVA/TF/03 Meeting. The MEVA III TF/3 report and teleconferences minutes are available in the MEVA III Website under the ICAO secure Portal.

2.8 Following the MEVA/TF/03 meeting, on 17 October 2014, the TF received from COMSOFT the Group 1 documents listed in the table below. The TF reviewed the documents and exchanged with COMSOFT comments and change requests. The status of completion of the documents is also listed in the table below.

Name	Status
VSAT-SDD - Chapter 1_NDD - Network Design Document_V1.5.pdf	Comments made and a new revision is expected from Comsoft
VSAT-SDD - Chapter 1_NDD – ANNEX skywan Network_V1.1.pdf	Approved
VSAT-SDD - Chapter 2_MEVA III_Network-Overview_v1.7d.pdf	No further comments. Comsoft needs to inform if this version is the final one considering the ongoing revision of Chapter 1.
VSAT-SDD - Chapter 4_MEVA III_Port Connections_V1.3.pdf	Need to update with Cuba- Atlanta AFTN data speed.
VSAT-SDD - Chapter 5_MEVA III - Rack Drawings_V1.3.pdf	No further comments. Comsoft needs to inform if this version is the final one considering the ongoing revision of Chapter 1.
VSAT-SDD - Chapter 6_MEVA III_Project Implementation Schedule_V5.6.pdf	Preliminary approved, but need final version with the optimization of the dates as requested in last teleconference minute

2.9 On 28 October 2014, TF recommended the MEVA Members to approve the documents listed in the table above even though some of the changes have not yet been introduced in the documents. In this regard and through ICAO State Letter EMX1006 dated 29 October 2014, the MEVA Members approved these Group 1 Documents.

2.10 On 27 October 2014, COMSOFT delivered updated version of the Group 2 documents. These documents were reviewed by the TF and comments and request changes were sent to COMSOFT. The status of completion of the documents is also listed in the table below.

Name	Status
VSAT-SDD_Chapter 3_LB_V1.0 and its annex	No further comments. Comsoft needs to inform if this version is the final one considering the ongoing revision of Chapter 1.
VSAT-SDD_Chapter 7_ MEVA III_TSP_V1.2	Comsoft needs to inform if this version is the final one considering the ongoing revision of BUC power adjustments.
VSAT-SDD - Chapter 8_ MEVA III_TRP_V1.1	Awaiting new revision with Cuba's updates
VSAT-SDD - Chapter 9_ MEVA III_ Security Plan_V1.1	Ongoing revision by TF
VSAT-SDD - Chapter 10_Reporting	Missing a cover file to introduce all aspects of reporting, including monthly report, ticket system, sun outages reporting, etc.
VSAT-SDD_MEVA III-Statistics Template_V1.1	These two files can be annexes 1 and 2 of chapter 10.
VSAT-SDD_MEVA III_TicketSystem_V1.0	Ongoing revision by TF
VSAT-SDD - Chapter 11 _MEVA III FAT-Procedure_Draft V1.0	Awaiting new revision with suggested changes
VSAT-SDD - Chapter 12_ MEVA III_ WebPage_V1.0	Ongoing revision by TF
VSAT-SDD- Chapter 13_ Glossary	When all chapters are completed
NOC procedures, contingency Plan, Maintenance procedures, Operational documents: VSAT-SDD_MEVA III_CP_V1.0 VSAT-SDD_MEVA III_CP_Apendix A_V1.0	These are not part of the SDD, but a separated functional document Ongoing revision by TF

2.11 As outlined in the tables above Group 1 documents are quasi finalized with few changes needing to be incorporated. Group 2 documents are still under revision.

3. Suggested Actions

3.1 The Meeting is invited to:

- a) take note of the work performed by the MEVA III Task Force;
- b) request Comsoft the submission of the last versions of the Group 1 and updated Group 2 documents; and
- c) suggest any action as deemed necessary.