



ICAO

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

WORKING PAPER

MEVA III TF/3 — WP/03
29/09/14

Third MEVA III Task Force Meeting (MEVA III TF/3)
Mexico City, Mexico, 6 to 9 October 2014

Agenda Item 3: Review and Analysis of MEVA III Deliverables and Preparation of the Deliverables for Approval by the MEVA Members

MEVA III DELIVERABLES AND APPROVAL PROCESS

(Presented by MEVA III Task Force Rapporteur)

EXECUTIVE SUMMARY	
This paper presents the list of documents submitted by COMSOFT for review and approval by the MEVA III Task Force.	
Action:	Review MEVA II Task Force Deliverables
<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), ICAO NACC Regional Office, Mexico City, Mexico, 14 to 16 October 2013

1. Introduction

1.1 Following the signature of all the MEVA III contracts, COMSOFT, the MEVA III Service Provider, has to provide a series of documents to be approved by the TMG. Under conclusion MEVA TMG 27/10 - *Coordination Method for MEVA III Deliverables*, the TMG delegated the task of evaluation and submission for approval to the MEVA III Task Force. The conclusion is listed for ease of follow.-up.

CONCLUSION
MEVA TMG/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:
 - i. All deliverable proposals from the MEVA III Service Provider shall be submitted to the MEVA III Coordinator and ICAO
 - ii. 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
 - iii. 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
 - iv. 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
 - v. Once approval is granted by the MEVA Members, an approval notification will be submitted to the MEVA III Service Provider for application

1.2 This paper presents the list of documents that the Task Force should review under this method.

2. Discussion

2.1 As mentioned above the Task Force responsibility for this review and eventual due dates are indicated for information. These documents are as a minimum:

- **Issue Tracking System (Attachment II Section C 14.21)**
 No due date specified; should be part of the SDD
- **Accounting and Billing Records Management System (Attachment II Section C 14.27)**
 No due date specified; should be part of the SDD
- **MEVA III Website (Attachment II Section C 14.34)**
 Due date: maximum of thirty (30) days after the Site Acceptance.

- **Technical Documentation (Attachment II Section C 16.2 & 16.3). The following is an excerpt from the MEVA III RFP:**

The Tenderer shall include a set of the manufacturer's technical documentation describing any new equipment that will be provided and installed under the MEVA III solution.

Within sixty (60) days after completion, testing and commissioning of a VSAT site installation the Successful Tenderer shall provide the corresponding MEVA Member and the ICAO NACC Office with soft copies of site as-built engineering records, including at least a system block and level diagram, cable and circuit connection/port lists, power and grounding details, and all other details reflecting each installed site configuration.

Thirty (30) days before the installation, the Successful Tenderer shall provide to each MEVA Member soft copies of the manufacturer's theory of operation and service manual for each equipment used in the MEVA III solution.

- **Training plan analysis, review and recommendations (Attachment II Section C 18.2 & 18.3)**

Part of the SDD

- **Security Plan (Attachment II Section C 17.2)**

No date

- **System Design Document (SDD) (Attachment II Section D 3.1)**

Due date: within forty-five (45) days following the signing of all the corresponding contracts,

- **Implementation Schedule (included in the SDD) (Attachment II Section D 3.3).**

Part of the SDD

- **Factory Acceptance Test (FAT) procedures (Attachment II Section D 4.1)**

No due date specified

- **Transition Plan (Attachment II Section D 5.2)**

Due date: within forty-five (45) days following the signing of all the corresponding contracts,

- **Site Acceptance Test (SAT) procedures (Attachment II Section D 6.1).**

No due date specified

2.2 As some of these documents and plans can be part of others, for example the SSD can contain the Issue Tracking System and the Accounting and Billing Management System descriptions, the Task Force should look at the documentation presented as a whole and see if all the RFP requirements are fulfilled ahead of this meeting, COMSOFT has already submitted for review the following documents:

- a) MEVA III Website
 - COMSOFT set up the MEVA III Website at the following address: <http://noc.COMSOFT-sat.com:7543/> User & Login will be communicated during the Meeting.
 - The Task Force asked Cayman Islands and Jamaica to review and report on the website. The comments should be compiled and send to COMSOFT.
- b) MEVA III System Design Document (SDD)
 - The initial SDD outline and list of documents to be submitted by COMSOFT is attached to this working paper as **Attachment A**.
- c) Monthly Report Template
 - **Attachment B** shows a template of the MEVA III Monthly Report
- d) Other Documents
 - Place holder for other documents submitted by COMSOFT.
- e) Site Surveys
 - All Site Survey Reports were delivered during the TMG/28 Meeting held in Miami, United States (26-30 May 2014)

3. Suggested Actions

3.1 The Meeting is invited to:

- a) review the completeness of the deliverables to be reviewed following the RFP;
- b) review the deliverables; and
- c) take any other action as deemed necessary.

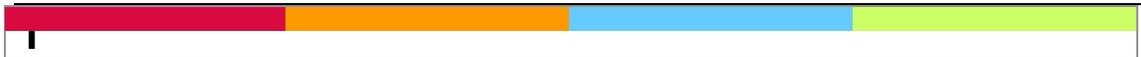


Contract N°
VSAT-MEVA III



COMSOFT
SDD

Network Drawing	1
Link Budget	2
Project Schedule Plan	3
Training Plan	4
Transition Plan	5
Network Design Document	6
Direction of Wiring and Interconnections	7
Plan Drawings	8
FAT - SAT	9
Security Plan	10
Reporting	11
Glossary	12



Contract N°

VSAT-MEVA III



COMSOFT

SDD - Manuals

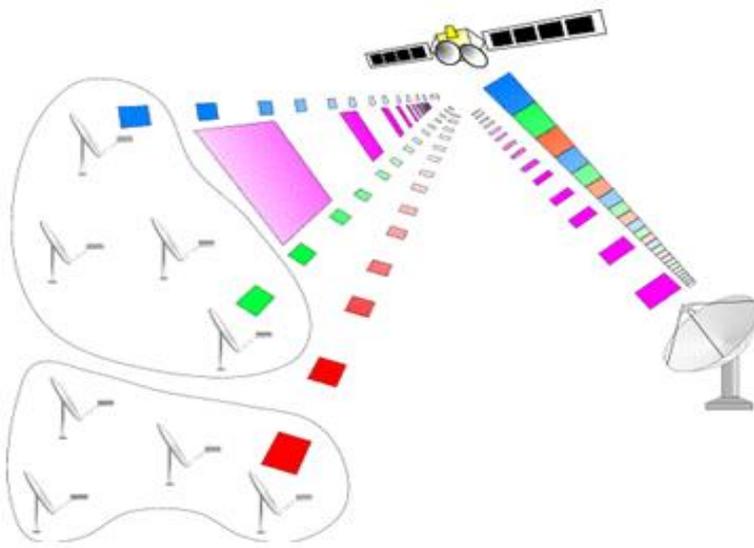
SKYWAN 7000 / 2570	1
Multiplexer	2
Amplifier	3
Antenna System	4
C-Band Redundancy Systems	5
Switches	6
Radar Filter	7
UPS	8

Monthly Statistics Example

Monthly report and statistics for

ICAO

MEVA III satellite network



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MEVA III

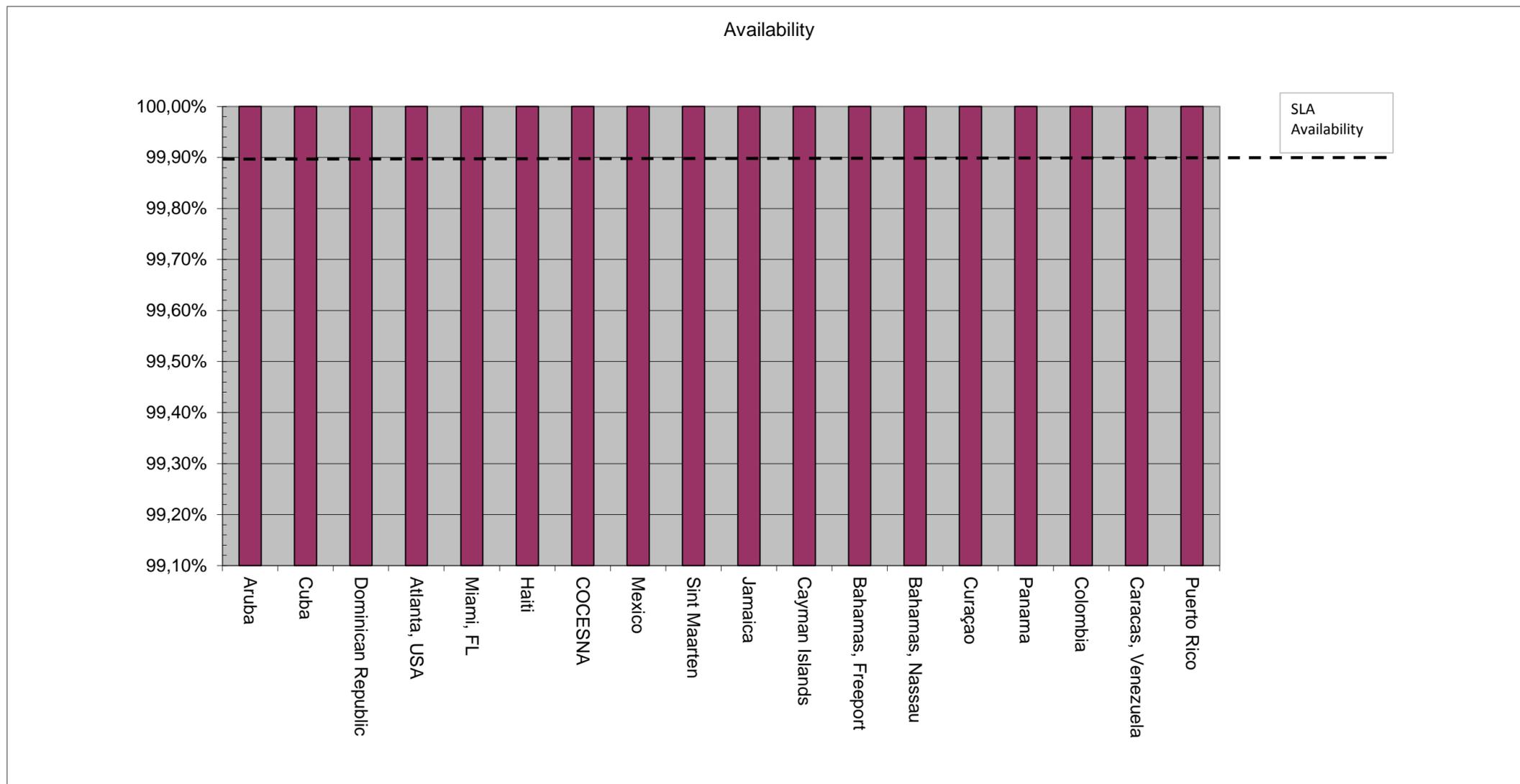
Monthly Statistics for "Month"

Trouble Tickets (Details)

No.	Link	CS TT-No.	Start Date	Start Time	Stop Date	Stop Time	Down Time Total	Countable SLA	Fault Description	Remarks	Responsibility
1									Only local Unit was pingable, no OSPF neighbours	Unit has been reset to restart OSPF	
2									RFT was damaged by water inside of fuse box due to heavy rain	RFT exchanged, recommendation by CS to change fuse box to a waterproof model	
3									Internet connection from "Station" was interrupted		
4									Radio Silence		

Remarks:

Availability:



MEVA III

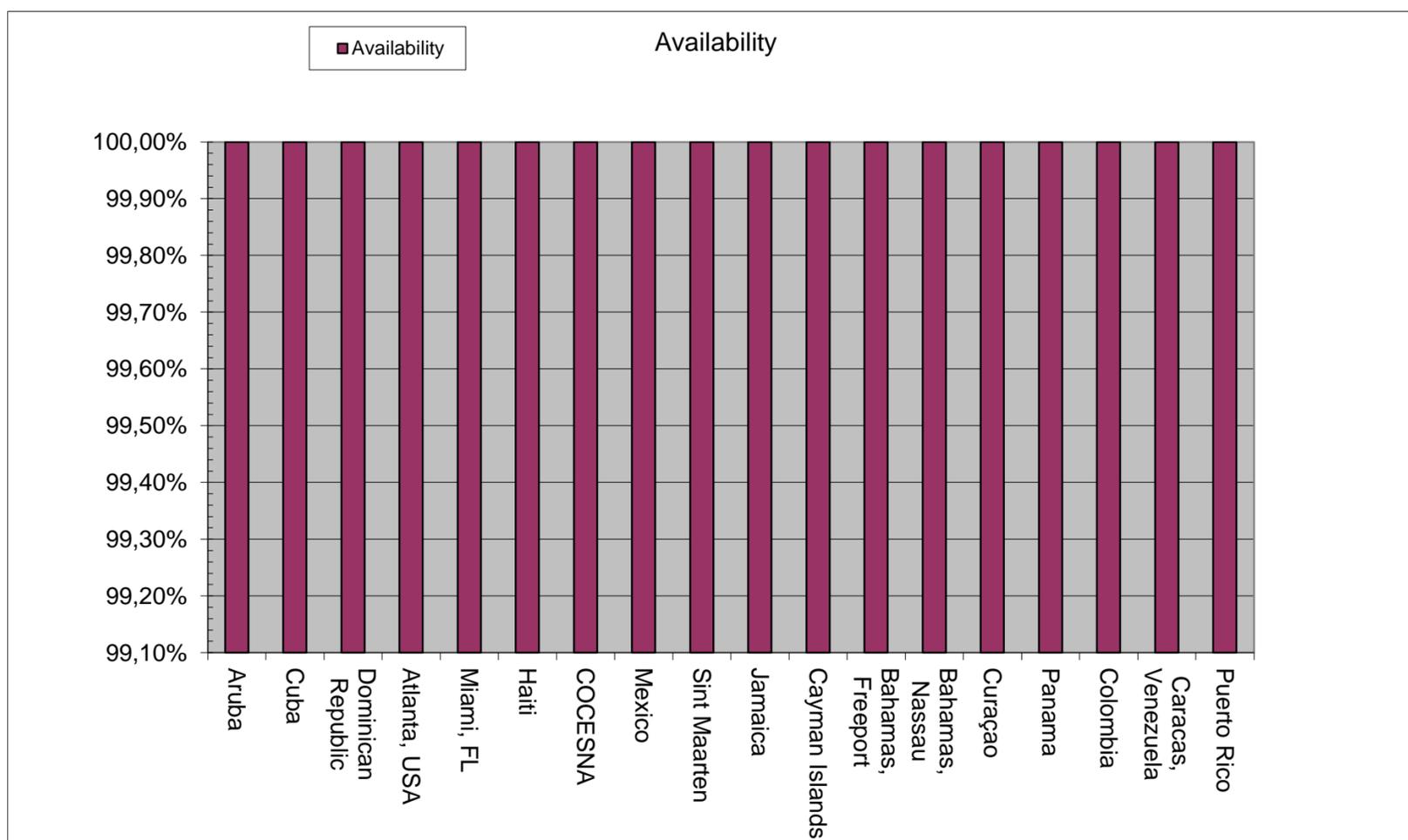
Monthly Statistics for "Month"

Availability

No.	Link	Total Time	Outage Time [hh:mm]		Outage Time [h]		Availability	
			Total	COMSOFT	Total	COMSOFT	Total	COMSOFT
1	Aruba	720	00:00	00:00	0,00	0,00	100,00%	100,00%
2	Cuba	720	00:00	00:00	0,00	0,00	100,00%	100,00%
3	Dominican Republic	720	00:00	00:00	0,00	0,00	100,00%	100,00%
4	Atlanta, USA	720	00:00	00:00	0,00	0,00	100,00%	100,00%
5	Miami, FL	720	00:00	00:00	0,00	0,00	100,00%	100,00%
6	Haiti	720	00:00	00:00	0,00	0,00	100,00%	100,00%
7	COCESNA	720	00:00	00:00	0,00	0,00	100,00%	100,00%
8	Mexico	720	00:00	00:00	0,00	0,00	100,00%	100,00%
9	Sint Maarten	720	00:00	00:00	0,00	0,00	100,00%	100,00%
10	Jamaica	720	00:00	00:00	0,00	0,00	100,00%	100,00%
11	Cayman Islands	720	00:00	00:00	0,00	0,00	100,00%	100,00%
12	Bahamas, Freeport	720	00:00	00:00	0,00	0,00	100,00%	100,00%
13	Bahamas, Nassau	720	00:00	00:00	0,00	0,00	100,00%	100,00%
14	Curaçao	720	00:00	00:00	0,00	0,00	100,00%	100,00%
15	Panama	720	00:00	00:00	0,00	0,00	100,00%	100,00%
16	Colombia	720	00:00	00:00	0,00	0,00	100,00%	100,00%
17	Caracas, Venezuela	720	00:00	00:00	0,00	0,00	100,00%	100,00%
18	Puerto Rico	720	00:00	00:00	0,00	0,00	100,00%	100,00%

Remarks

Total time 672 h in February (28 days)
 696 h in February (29 days)
 720 h in months with 30 days
 744 h in months with 31 days



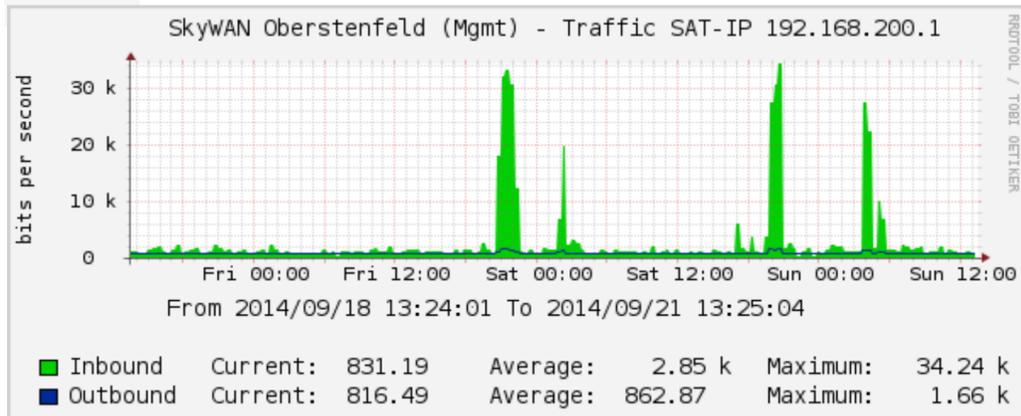
MEVA III

Monthly Statistics for "Month"

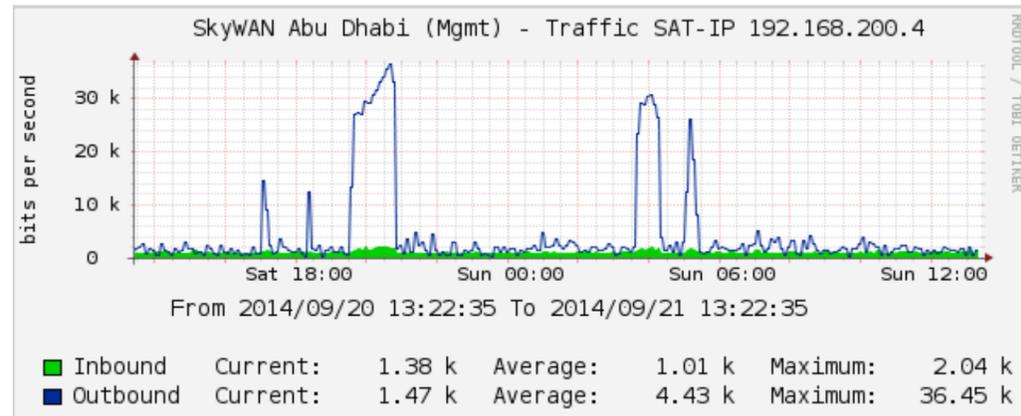
Network Statistik

Channel Utilization:

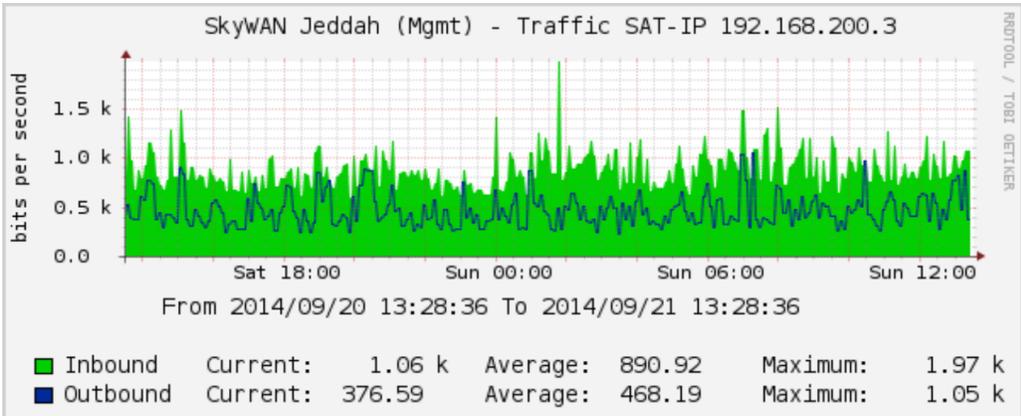
Channel: Traffic to "Site#1"



Channel: Traffic to "Site#2"



Channel: Traffic to "Site#3"



Channel: Traffic to "Site#4"

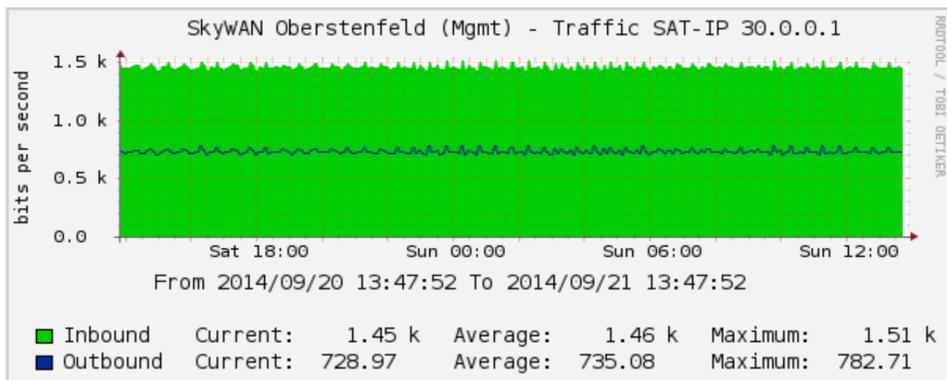
MEVA III

Monthly Statistics for "Month"

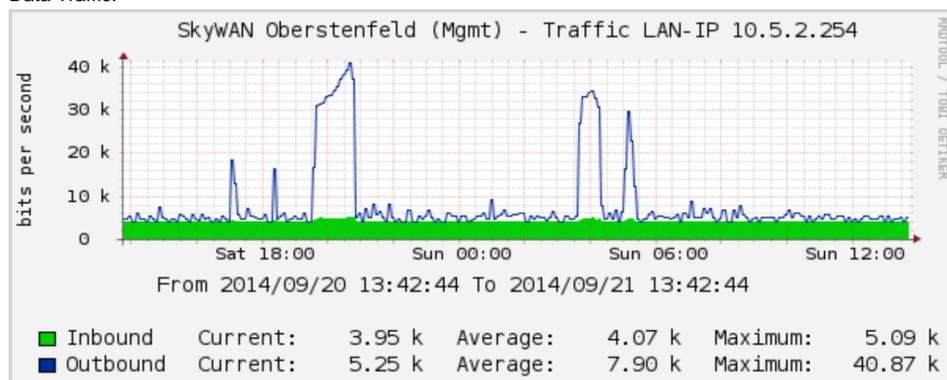
Station Statistik

Aruba

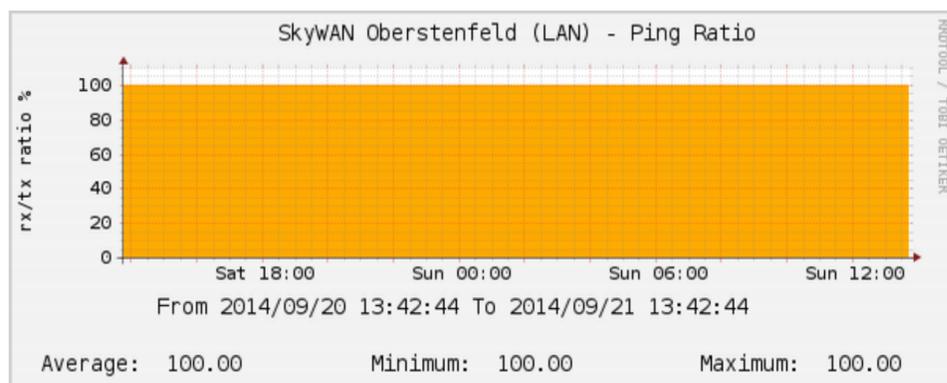
Voice Traffic:



Data Traffic:



Packet Loss:





Cuba

Voice Traffic:

Data Traffic:

Packet Loss:



Dominican Republic

Voice Traffic:

Data Traffic:

Packet Loss:



Atlanta, USA

Voice Traffic:

Data Traffic:

Packet Loss:



Miami

Voice Traffic:

Data Traffic:

Packet Loss:



Haiti

Voice Traffic:

Data Traffic:

Packet Loss:



COCESNA

Voice Traffic:

Data Traffic:

Packet Loss:



Mexico

Voice Traffic:

Data Traffic:

Packet Loss:



Sint Maarten

Voice Traffic:

Data Traffic:

Packet Loss:



Jamaica

Voice Traffic:

Data Traffic:

Packet Loss:



Cayman Islands

Voice Traffic:

Data Traffic:

Packet Loss:



Bahamas, Freeport

Voice Traffic:

Data Traffic:

Packet Loss:



Bahamas, Nassau

Voice Traffic:

Data Traffic:

Packet Loss:



Curaçao

Voice Traffic:

Data Traffic:

Packet Loss:



Panama

Voice Traffic:

Data Traffic:

Packet Loss:



Colombia

Voice Traffic:

Data Traffic:

Packet Loss:



Caracas, Venezuela

Voice Traffic:

Data Traffic:

Packet Loss:



Puerto Rico

Voice Traffic:

Data Traffic:

Packet Loss:



MEVA III

Monthly Statistics for "Month"

Call Statistik

Aruba

Calls:

SPEED DIAL: 3932 EXTENDED: LOCAL PORT: 101
DST NAME: 09-VUT3 DST PORT: 102 BEGIN: 15:00:09 2008/11/14 DUR: 25

SPEED DIAL: 3921 EXTENDED: LOCAL PORT: 101
DST NAME: 10-MB3 DST PORT: 101 BEGIN: 14:54:09 2008/11/14 DUR: 308

SPEED DIAL: 3922 EXTENDED: LOCAL PORT: 101
DST NAME: 10-MB3 DST PORT: 102 BEGIN: 14:51:34 2008/11/14 DUR: 83

SPEED DIAL: 3921 EXTENDED: LOCAL PORT: 101
DST NAME: 10-MB3 DST PORT: 101 BEGIN: 13:09:32 2008/11/12 DUR: 90

SPEED DIAL: 3931 EXTENDED: LOCAL PORT: 101
DST NAME: 09-VUT3 DST PORT: 101 BEGIN: 07:36:44 2008/11/12 DUR: 194

SPEED DIAL: 3931 EXTENDED: LOCAL PORT: 101
DST NAME: 09-VUT3 DST PORT: 101 BEGIN: 16:06:49 2008/11/04 DUR: 193

SPEED DIAL: 3931 EXTENDED: LOCAL PORT: 101
DST NAME: 09-VUT3 DST PORT: 101 BEGIN: 13:13:42 2008/11/04 DUR: 6

SPEED DIAL: 3931 EXTENDED: LOCAL PORT: 101
DST NAME: 09-VUT3 DST PORT: 101 BEGIN: 12:55:12 2008/11/04 DUR: 218

SPEED DIAL: 3931 EXTENDED: LOCAL PORT: 101
DST NAME: 09-VUT3 DST PORT: 101 BEGIN: 17:22:07 2008/11/03 DUR: 5

SPEED DIAL: 3931 EXTENDED: LOCAL PORT: 101
DST NAME: 09-VUT3 DST PORT: 101 BEGIN: 09:54:22 2008/11/01 DUR: 4



Cuba

Calls:



Dominican Republic

Calls:



Atlanta, USA

Calls:



Miami

Calls:



Haiti

Calls:



COCESNA

Calls:



Mexico

Calls:



Sint Maarten

Calls:



Jamaica

Calls:



Cayman Islands

Calls:



Bahamas, Freeport

Calls:



Bahamas, Nassau

Calls:



Curaçao

Calls:



Panama

Calls:



Colombia

Calls:



Caracas, Venezuela

Calls:



Puerto Rico

Calls: