

AFIX-TF

TECHNICAL WORKSHOP REPORT (BURUNDI)

I. Introduction

The African Internet Exchange Task Force (AFIX-TF) held a one-day Decision Maker + EN-ISPA workshop and a two-day technical training workshop in Bujumbura, Burundi, at “Centre de Perfectionnement et de Formation” from Tuesday 21 to Thursday 23 march 2006. Trainers: Matali Shabazz, Jean Robert Hountomey, Olivier Nana Nzépa, Gaby Bombambo, Brian Longwe & Didier Kasole. This report is written by Didier Kasole, Workshop Team Leader.

II. Planned Outcome and Benefit

Participants at the Workshop will be able to establish an ISPA, establish and maintain an Internet Exchange Point. The implicit benefit of the workshop will be to establish technical cooperation between ISPs.

III. Workshop Structure

Day 1 Decision Makers

Session 0: Opening Session **09:30-10:00**

Introduced by Victor Ciza of Cbnet (local host), the Minister of Transport and Communication did the official opening of the workshop in presence of General Manager of Onatel (national phone operator) and General Manager of Regulation. Brian Longwe (AfrISPA General Manager) represented AfrISPA and presented AfrISPA’s perspectives.

Session 1: Internet Overview **10:00-10:30**

This session provides a brief look at the history and current status of the Internet and its architecture, and introduces (or refreshes) some key concepts.

Session 2: Case Studies: Kenya **10:30-11:00**

During this session, Brian Longwe presented what happened in Kenya for the establishment of KIXP and for its management for the 4 last years.

Session 4: Internet Overview **11:30-12:30**

During this session participants explored the cost-savings dynamics associated with their participation in an IXP, including the dynamics for the overall ISP market.

Day 1 AFIX

Session 1: High-level Overview

14:00-15:00

Presented by Didier Kasole, this session provided a brief look at the history and current status of Internet and its architecture, and introduced some key concepts.

Session 2: Technical refresher (Router Introduction) 15:00-16:00

Presented by Jean Robert Hountomey, this session is a set of exercises on router management and configuration.

Session 3: Technical refresher (static & dynamic routing) 16:10-18:00

Presented by Didier Kasole, this session refreshed the concepts of static and dynamic routing.

Day 2: AFIX

Session 4: Technical aspects of peering

09:00-15:00

Presented by Jean Robert Hountomey and Didier Kasole, this session focuses more closely on how to set up peering, giving more detail on BGP parameters and configuration.

Session 7: Business aspects of Internet Exchanges 15:00-16:00

Presented by Matali Eddie, this session explores the business models applicable to an Internet Exchange, and the associated financial and business implications – including how to ensure financial sustainability and how to manage relationships.

Day 3: AFIX

Session 4: Technical aspects of peering (continued) 09:00-13:00

(Included tea break)

Presented by Jean Robert Hountomey and Didier Kasole, this session focused more closely on how to set up and configure an IXP. During this session participants set up an example IXP.

IV. Participants attendees

	Name	Organization	Contact
1	Amahoro Alain Gerad	Universite du Burundi	amahoro_alain@yahoo.fr
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18	Rukohoza Aime	Telecel	aime@telecel.bi
19	Van Reijswoud Victor	East African Center for Open Source	victor@eacoss.org

V. Workshop Evaluation

In general, the assessments were favorable, 100 % of responding participants were very satisfied by the workshop.

	Fourteen participants out of 19 completed the evaluation forms	
On the Question: How useful did you find the workshop?	Very useful	14
	Somewhat useful	
	Not useful	
On the Question: How did it match your expectations? (Were the aims communicated in advance?)	Exceeded	
	As expected	14
	Below	

Individual session evaluations and trainers evaluations

Session 1: Overall introduction

Trainer's name: Didier Kasole

Please rate the following on a scale of 1 to 5:

	5 = Excellent, 4 = Good, 3 = Average, 2 = Poor, 1 = Very poor
Presentation skills	4.42
Presentation content	4.25
Handouts	4.00
Overall	4.25

Comment: This workshop is very interesting for us, we need more to reduce digital divide

Session 2: Technical Refresh (a)

Trainer's name: Didier Kasole

Please rate the following on a scale of 1 to 5:

	5 = Excellent, 4 = Good, 3 = Average, 2 = Poor, 1 = Very poor
Presentation skills	4.57
Presentation content	4.43
Handouts	4.49
Overall	4.36

Comment:

Session 3: Technical refresher (b)

Trainer's name: ___Jean Robert Hountomey___

Please rate the following on a scale of 1 to 5:

	5 = Excellent, 4 = Good, 3 = Average, 2 = Poor, 1 = Very poor
Presentation skills	4.36
Presentation content	4.71
Handouts	4.36
Overall	4.43

Comment: more exercises needed

Session 6: Business aspects of Internet Exchange

Trainer's name: ___Eddie Matali___

Please rate the following on a scale of 1 to 5:

	5 = Excellent, 4 = Good, 3 = Average, 2 = Poor, 1 = Very poor
Presentation skills	4.69
Presentation content	4.31
Handouts	4.31
Overall	4.46

Comment: interesting exercises, well done

Session 8: Final Exercise (BGP configuration, set up an IXP)

Trainer's name: ___Jean Robert Hountomey & Didier Kasole___

Please rate the following on a scale of 1 to 5:

	5 = Excellent, 4 = Good, 3 = Average, 2 = Poor, 1 = Very poor
Presentation skills	4.33
Presentation content	4.42
Handouts	4.33
Overall	4.33

Comment: more exercises needed

Overall Workshop Evaluation

How did you find the length of the workshop?	Too short	50%
	About right	50%
	Too long	0%
How did you find the pace of the workshop?	Too slow	8%
	About right	92%
	Too fast	0%
How satisfied were you with the organisation of the workshop?	Not satisfied	0%
	Somewhat satisfied	15%
	Very satisfied	85%
<p>Any other comments?</p> <ul style="list-style-type: none"> • Thanks to instructors. As time allocated to the workshop is too short, please keep Burundi in the loop for future workshops by including Burundians in the team. • Too short, technician need to go deeper in router configuration. • Too fast at the end • Keep in touch with more workshops • In future, reorganize sessions timing, and spend more time on core sessions • In future, more exercises directly related to the expectations 		

VI. Conclusion & follow up

Since the third workshop 100% of participants are very satisfied (for the first and the second only 36% & 86%). The length of the workshop still a big problem, 50% of participants find the workshop too short, we need to think on the length **by introducing evening session or add one more day**. All instructors are rated **4.XX**, in the past some of them was rated **3.XX**, the reason can be: more familiar with documentation, take care of previous recommendations. Participants want more exercises, we need to prepare more for the future.

After Decision Maker session, ISPs made decision to establish an IXP and chose the location (Onatel). KTH will provide routers for the IXP within one month.