



INTERNATIONAL CIVIL AVIATION ORGANIZATION

**Review Meeting of the
Task Force on the Development of a Regional Project on an AFI Integrated
Aeronautical Telecommunication Infrastructure
(Dakar, Senegal, 3-5 October 2011)**

Agenda item 3: Review of Progress made by the Task Force Teams

REVIEW OF PROGRESS MADE BY THE TECHNICAL TEAM OF THE TASK FORCE

(Presented by ATNS, South Africa, Team Leader)

SUMMARY

This working paper provides discussion documents on the work of the Technical Team of the Task Force.

Action by the Meeting

The meeting is invited to:

- 1) review the Technical Team discussion documents attached to this working paper;
- 2) identify the interrelations, mutual expectations, areas of coordination and information/data to be exchanged with the Administrative and the Financial Teams; and
- 3) review and provide inputs to the questionnaire prepared by the Task Force Technical Team.

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**DISCUSSION DOCUMENT
FOR
AFI VSAT MANAGERS REVIEW MEETING
DAKAR, SENEGAL
3-5 OCTOBER 2011**

Introduction

This document details the project plan for the AFI VSAT Managers Technical Task Force work to be completed before the scheduled APIRG meeting in November 2011. The detail provided describes the Work Breakdown Structure (WBS) and Statement of Work (SOW) for those work packages as identified. A high level project schedule is included for discussion purposes.

STATEMENT OF WORK

Current Network Detail (WP1000)

This work package builds on the information gathered during the ICAO 1st VSAT Managers meeting. A set of questionnaires will be developed and sent to the individual VSAT Network Managers for completion. The questionnaires will gather additional VSAT network infrastructure, VSAT network management and VSAT network operational detail required to clearly identify the current status of the individual VSAT networks i.e. CAFSAT, AFISNET, SADC 2 and NAFISAT. The questionnaires will be distributed to the individual VSAT Managers and team members for completion and return. The additional information will be collated into a draft “Current Network Detail and Status” report. The draft report will be circulated for comment, updated and then incorporated into the final APIRG 18 submission as an annexure.

“Best Practices” (BP) Framework and Criteria (WP2000)

A basic set of best practice criteria was developed and agreed upon during the 1st VSAT Managers meeting. The basic criteria parameters will be reviewed, refined and compared to other typical VSAT technology performance criteria. A measurement methodology will be developed that will be applicable during the “Gap Analysis” as described below in WP3000. The updated BP framework and criteria will be collated in a report format and circulated to the VSAT Managers and team members. Any comments received will be incorporated into a draft “Best Practices Framework and Criteria” report. This report will be annexed to the final APIRG 18 submission.

Comparison and GAP Analysis (WP3000)

The individual status of the different VSAT networks will be compared with the best practice framework and measured according to the criteria specified. For each gap identified, a specific technical description of the gap as it exists within the individual VSAT network will be formulated in a draft report. The draft report

will be circulated for comment, updated and then incorporated into the final APIRG 18 submission as an annexure.

Architecture Design (WP4000)

The list of VSAT network infrastructure and operational deficiencies, as determined through the gap analysis conducted under WP3000, will be circulated to the individual VSAT Managers. The individual VSAT Managers will conduct a VSAT network infrastructure and operations design to address the identified gaps. The level of design will be based on the extent of the requirements identified to update the individual VSAT networks to conform to the best practice framework as agreed upon. The additional VSAT network infrastructure and operational design detail for each VSAT network will be collated into a draft report. The draft report will be circulated for comment, updated and then incorporated into the final APIRG 18 submission as an annexure.

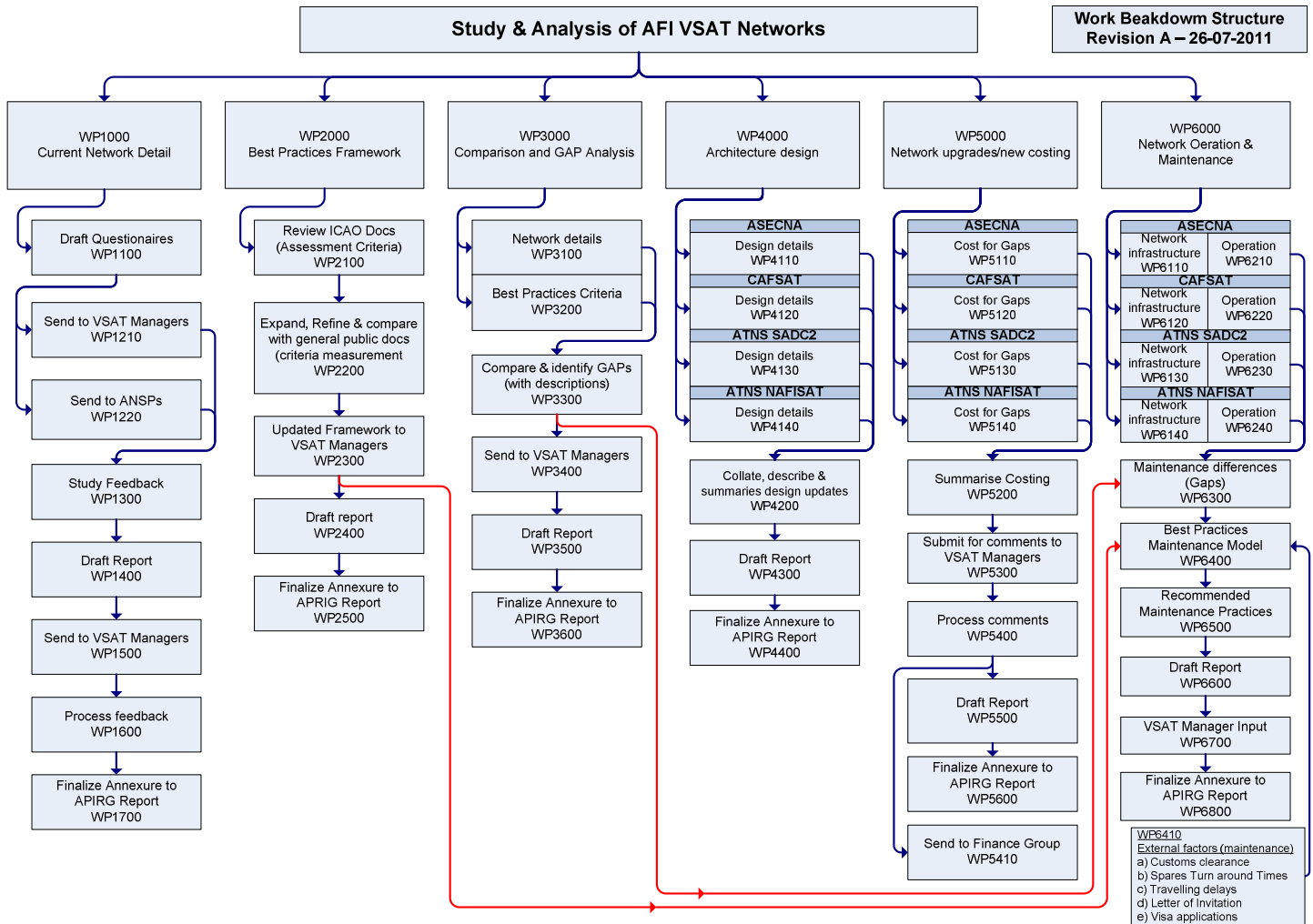
Network Upgrades/New Costing (WP5000)

The additional VSAT network infrastructure and operations design detail for each individual VSAT network will be costed by the VSAT Managers and submitted. The cost detail will be summarised in a draft report. This report will be circulated for comment and updated accordingly. The processed draft report will be submitted to the Finance Group for further action. The processed draft report will be incorporated into the final APIRG 18 submission as an annexure.

Network Operation and Maintenance (WP6000)

From the individual VSAT network detail design and operations documentation, the maintenance and maintenance management differences will be identified for each of the individual VSAT Networks. The maintenance differences or gaps will be determined from the agreed upon best practice framework completed under WP2000. As a further evaluation of the maintenance differences and gaps, maintenance of the VSAT networks will be compared against external factors influencing any maintenance actions required during the operations of the individual VSAT networks. The most suitable maintenance practice framework as determined from the maintenance analysis will be incorporated into a draft report. The draft report will be circulated to the VSAT Managers for comments. The comments received will be processed. The processed draft report will be incorporated into the final APIRG 18 submission as an annexure.

WORK BRAEAKDOWN STRUCTURE



High Level Project schedule

ID	Task Name	Duration	Start	Finish	2011																																																			
					August							September							October							November							December																							
					30	02	05	08	11	14	17	20	23	26	29	01	04	07	10	13	16	19	22	25	28	01	04	07	10	13	16	19	22	25	28	31	03	06	09	12	15	18	21	24	27	30	03	06	09	12	15	18	21	24	27	30
1	Study & Analysis of AFI VSAT Networks	106 days?	Mon 11/08/01	Mon 11/12/26	[Gantt bar from 08/01 to 12/26]																																																			
2	WP1000: Current Network details	32 days	Mon 11/08/01	Tue 11/09/13	[Gantt bar from 08/01 to 09/13]																																																			
12	WP2000: Best Practices Framework	19 days	Mon 11/08/01	Thu 11/08/25	[Gantt bar from 08/01 to 08/25]																																																			
18	WP3000: Comparison & GAP Analysis	20 days	Mon 11/09/12	Fri 11/10/07	[Gantt bar from 09/12 to 10/07]																																																			
25	WP4000: Architecture Design	31 days	Thu 11/10/06	Thu 11/11/17	[Gantt bar from 10/06 to 11/17]																																																			
34	WP5000: Network Upgrades/new costing	27 days?	Fri 11/11/18	Mon 11/12/26	[Gantt bar from 11/18 to 12/26]																																																			
46	WP6000: Network Maintenance	32 days	Thu 11/10/06	Fri 11/11/18	[Gantt bar from 10/06 to 11/18]																																																			