

Haiti IFMS- Applied Technology

EGAT/I&E/ICT

February 1, 2006

Haiti IFMS

- Overview
- Approach
- Technology
- Vendors
- Next Steps

Haiti IFMS- Overview

- Nov/Dec 2004 Assessment for DG
- Broad based proposal including IFMS, \$6.5M
- Revised Proposal for network infrastructure and ancillary activities using Sysdep, \$1.2M
- Initial engineering/vendor TDY March 2005
- Currently in Phase II, 20 more sites, IFMS and Regional studies, \$1.2M

Haiti IFMS- Approach

- Technology, try the simplest first
- Reoccurring costs, minimize
- Use local technology firms during implementation
- Anti-corruption, incremental successes

Haiti IFMS- Technology

- **Establish a suitable network infrastructure to support an Integrated Financial Management System (IFMS) for the GOH**
- **Phase I includes a total of 20 GOH ministries and agencies to be linked**
- **Phase II adds 20 sites in port au Prince**
- **Technology used is based on Cisco 1310 and 1410 radios in the 2.4 GHz (802.11B/G) and 5.7Ghz (802.11A) unlicensed bands configured as point-to-point and point-to-multipoint**

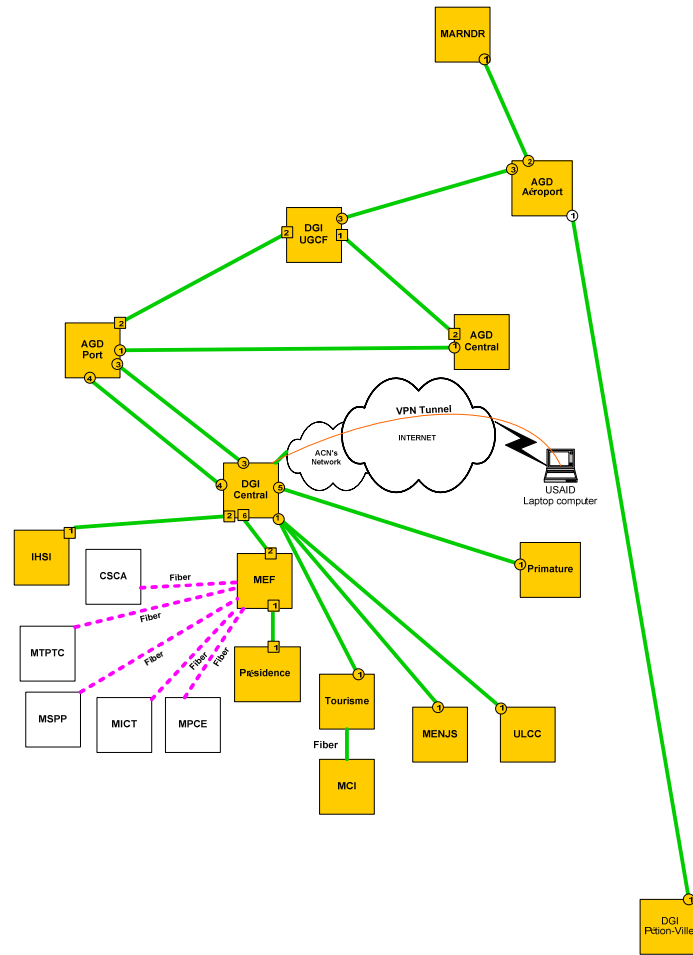
Haiti IFMS- Technical Considerations

- Constraints
 - Lack of/difficulty in obtaining wired infrastructure
 - Potential 802.11 saturation/unregulated activity
- Requirements
 - Broadband
 - Redundant
 - Sustainable
 - Minimal reoccurring costs
 - Ease of maintenance
 - Simple technology
 - Locally available equipment and support
- Options
 - WiFi
 - WiMax
 - Microwave
 - CDMA

Haiti IFMS- Technical Approach

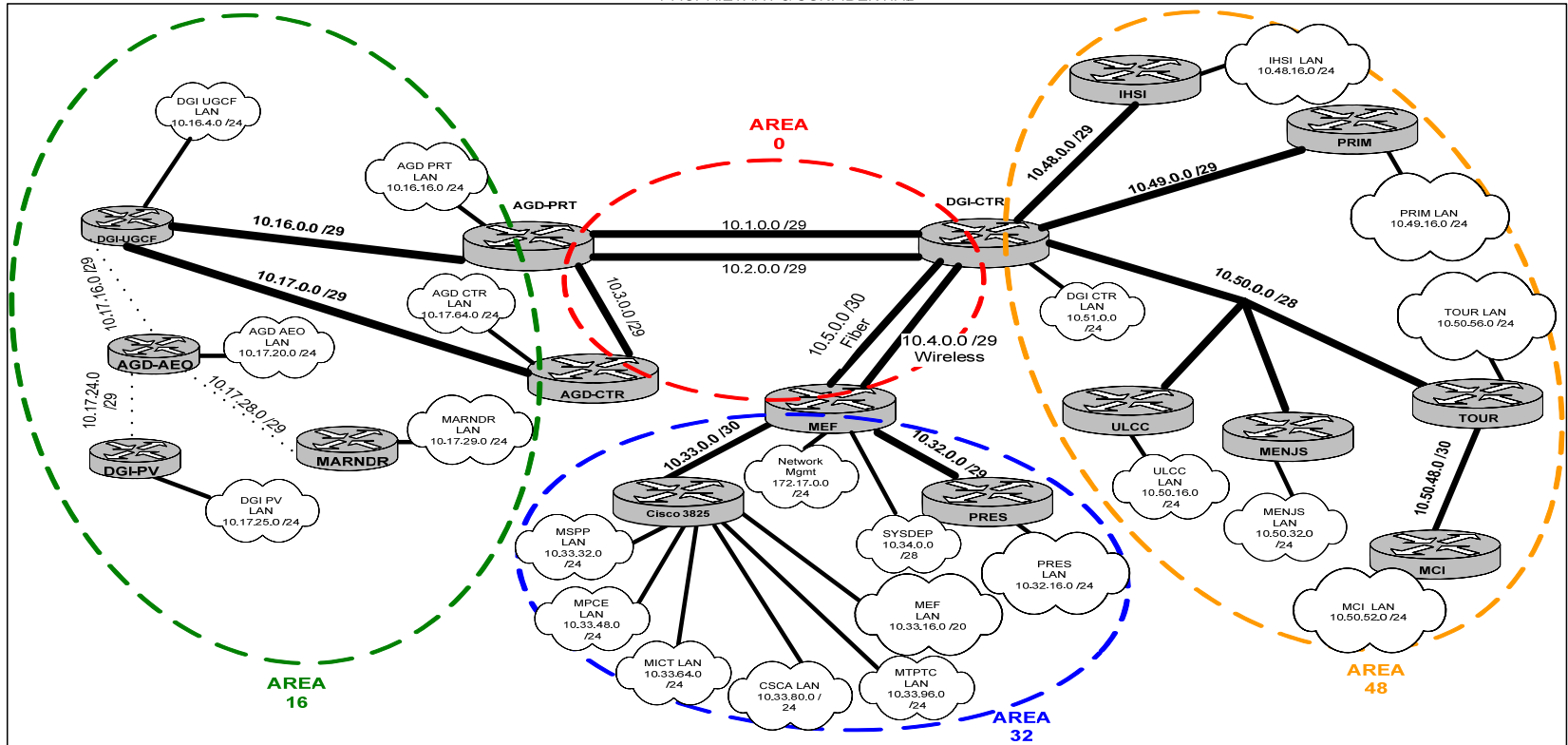
- Inventory and document existing infrastructure and environment
- Spectrum analysis and WLAN survey
- Gather GPS coordinates
- Line of Sight (LoS) survey of sites
- Test LoS with pair of 1310/1410 bridges

Haiti IFMS- Initial sites



Haiti IFMS- IP Architecture

PROPRIETARY & CONFIDENTIAL



TITLE GOH MAN: OSPF Design for Phase I Sites (With Subnet IP Address Assignment)		REVISIONS	
Date - Original:	Scale:	NO.	DATE
Latest Revision:	Job No:	1	09/19/2009
			Initial Document Created
		Checked By:	Drawn By: Bess, Mardi



USAID
FROM THE AMERICAN PEOPLE

PROPRIETARY & CONFIDENTIAL

Haiti IFMS- Technology Results

- Twenty sites connected
 - Extensive local tech participation
 - Access to SysDep application nearing universal
- Work on the 20 sites for Phase II beginning
- Basis for the network infrastructure for the GOH

Haiti IFMS- Local Vendors

- Inventoried local companies on first and subsequent TDY(s) via RFI interviews
- Executed a series of RFQs for:
 - Communication/network installation (PCXCEL)
 - Communication tower installation/upgrade (General Engineering Services [GNS])
 - HW/SW (CompHaiti)
 - Training (Turbo Systems)
 - Software development (current RFQ in progress)
 - Power conditioning equipment (PowerTech)
 - Internet Access (Haiti Data Network [HDN] and Alpha Communication Network [CAN])

Haiti IFMS- Vendor Results

- Generally High Quality work
- Initial training, ongoing implementation
- Design and QA required
- Provide a base for sustainability
- Provide ongoing project execution when security situation prevents core project team for travel to Haiti

Haiti IFMS- Next Steps

- UCREF application Interface
- IFMS selection/implementation
- Regional network design/implementation