



**USAID**  
FROM THE AMERICAN PEOPLE



# STATUS REPORT ON EISA LAN INSTALLATION

12/10/2006

This publication was produced for review by the United States Agency for International Development. It was prepared by BearingPoint, Inc.

# **STATUS REPORT ON EISA LAN INSTALLATION**

TECHNICAL ASSISTANCE FOR POLICY REFORM II

CONTRACT NUMBER: 263-C-00-05-00063-00

BEARINGPOINT, INC.

USAID/EGYPT POLICY AND PRIVATE SECTOR OFFICE

12/10/2006

AUTHOR: D. JONATHAN TOMAR

## **DISCLAIMER:**

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

## 1.0 INTRODUCTION

The purpose of this report is to provide a status report on the EISA LAN installation as of the current time of my trip. Because we are in the middle of the installation, the status of any given task will change from day to day.

In general, the installation has gone well with no insurmountable problems. During any complex installation of this nature there are bound to be some problems and this is true on this installation. I must comment on the excellent performance by the EISA IT staff and the ACT contractor. All parties have been cooperative and collegial in their actions. In particular I would like to recognize Sherif Fathi and Amos Gad for working late in the evenings and over the weekends. They have shown a level of dedication which is above and beyond the norm.

The report will examine the current Status of the following stages of installation.

- Site Preparation – This phase is more or less completed. We are still waiting on some final wiring to some of the EISA offices
- Management Preparation – This phase is completed
- Hardware/Procurement issues – This phase is completed except for a few minor issues – see unresolved issues.
- Internet Installation Issues – This issue should be resolved in the next few days. The high speed line has been ordered and the speed will be upgraded shortly.
- Workstation and laptop installation - We are in the first phase of this process. We have setup a few workstations for testing purposes. I expect the first image to be burned in the next week.
- WSUS and NAV installation – The NAV software and update process is installed and tested. The WSUS has had some problems and has been shelved for future review
- Network/security installation – The IDS and PIX firewall installation begins on 12/11 and will continue for about one week.
- Windows Server 2003 Active Directory installation – Active directory server is installed. Sherif has developed a series of batch files to load in the users automatically. There will be some problems with duplicate email addresses. Active Directory should be completed by 12/21.
- Exchange server installation – Exchange server is installed and it is working using internal mail. We will not be able to test external mail until we have the new domain name and an account at the ISP. I expect by 1/1 exchange should be fully tested.
- ISA server installation – The ISA server is completed. There will be revising of rules over time as situations arise. In addition, there may be some modifications to the configuration for the firewall.

- SQL server installation – I expect work to begin on this server on 12/17. It should be functional by 12/31.
- Backup/archive server installation – No work has begun on this server. We are waiting for the SCSI controllers and cables before we start this activity.
- Web server installation – No work has begun on this server
- Backup Web server installation – No work has begun on this server
- Government Fund server installation – No work has begun on this server

### KEY UNRESLOVED ISSUES as of 12/14/2006

Key Unresolved Issues		Completed	Needs Attention
1	SCSI controllers and cables for the tape drives		This will delay installation of the Archive server if not resolved in 2 weeks
2	220 power conversion and plug configuration for the UPS		May delay rollout of desktop computers if not resolved in 2 weeks
3	HP keyboard replacement		Will not delay the project
4	KVM switch adaptors		Will not cause specific delay but has slowed productivity
5	Mounts for server UPS		Will not delay the project
6	WSUS final installation and test		Needs to be resolved within 2 to 3 months to prevent network congestion
7	<a href="http://www.eisa.gov">www.eisa.gov</a> domain registration		Will delay final configuration of exchange server, ISA server, IDS and PIX firewall if not available.

### SITE PREPARATION

Site preparation		Completed	Needs Attention
1	Check Existing wiring to insure it is CAT5 or above	Yes	
2	Check new wiring to insure it is configured properly (Cat5 or above )		
3	Check wiring and insure all wires are labeled		
4	Make sure all wires are in patch panels		
5	Make sure we have patch/drop cables as required		
6	Add additional electric power to the server room	Yes	

7	Add additional AC unit to the server room	Yes	
8	Insure we have UPS available for computers	Yes	We need Egyptian power cables for the <u>UPS equipment</u>
9	Make sure rack is available for servers and other equipment	Yes	Rack should be rearranged to allow air flow and to mount UPS Equipment

## MANAGEMENT PREPARATION

Management Preparation		Completed	Needs Attention
1	Compile a list of stake holders (key people in the Server install process - vendors, consultants etc	Yes	
2	Compile a list of all users and there login ID and password - e-mail address and password	Yes	
3	Compile a list of current inventory including all workstations, servers routers, hubs etc.	Yes	
4	Check the MS compatibility tables for all the equipment currently on hand and purchased	Yes	
5	Meet with ACT & EISA IT personnel to discuss detailed network installation	Yes	

## PROCUREMENT ISSUES

Procurement Issues		Completed	Needs Attention
1	Receive all new equipment and inventory it (model # serial #'s etc)	Yes	
2	Define staging area for new equipment	Yes	
3	Get the server software from ministry of Information and obtain all necessary licenses	Yes	
4	Check the SKU's of the versions of Server 2003 and make sure they are the latest versions	Yes	
5	Decide which existing computers are not worth including on the new network	Yes	They will keep all PIV and above.
6	Dispose of old computers		

## INTERNET SERVICE

Internet service		Completed	Needs Attention
1	Procure the additional leased line and install	Yes	The new high speed line is not active yet
2	Connect router and test Internet connection	Yes	

3	Implement Network Address Translation (NAT) on the router		
4	Make sure we have some firewall protection during testing	Yes	
5	Install at least one 10-100 switch to insure switches are installed properly	Yes	
6	We should have an internet connection before installing any hardware	Yes	
7	Make sure we have full control of the domain registration so we can set the A record and MX record accordingly		This is a problem. We have not gotten the registration of the EISA.GOV domain
8	Make sure we have at least 2 fixed IP ordered	Yes	
9	Do not cancel web hosting account at this time	Yes	

### WORKSTATION AND LAPTOP SETUP

Workstation and laptop setup		Completed	Needs Attention
1	Move all equipment to staging area and inspect equipment	Yes	
2	Set up template computer, Install OS, standard software, Antivirus, Antispyware, Windows update procedures, Software firewall	Yes	
3	Prepare initial workstation image	In process	
4	Install computers in test department		
5	Rollout workstation computers to their final destination		
6	Prepare template laptop computer		
7	Rollout laptop computers		

### NETWORK SETUP

Network Setup		Completed	Needs Attention
1	Install switches as appropriate	Yes	
2	Forest/Tree/Domain configuration	Yes	
3	What are the internal and external domain names		
4	Print out and complete configuration worksheets for all servers		This is important issue to be completed by 1/15
5	Preliminary configuration of firewall and router		
6	Determine which device will serve DHCP and shut all others down	Yes	

7	Connect router to leased line/DSL		
8	Determine strategy for suppressing Internet (by computer, by login etc.)	Yes	
9	Configure router		
10	Configure firewall		

### WSUS and NAV SERVER

WSUS and NAV		Completed	Needs Attention
1	Prepare hardware setup	Yes	
2	Install WSUS	Yes	
3	Test WSUS on workstations	Yes	Need to fully diagnose problem and continue testing
4	Install NAV	Yes	
5	Test NAV	Yes	
6	Download patches and hot fixes	Yes	

### ACTIVE DIRECTORY SERVER

Active Directory		Complete	Needs Attention
1	Install UPS but do not connect to the	Yes	
	Install UPS monitoring software and cable and test		
2	Setup the Active Directory/DC server and check its configuration	Yes	
3	Run a server 2003 readiness tool from Microsoft	Yes	
4	Install the Disk controllers and set up any RAID configuration	Yes	
5	Install any software recovery partition HP -smart start)	Yes	
6	Make any ERD disks (Emergency Recovery Disks)		
10	How should we partition the main server	Yes	
7	Server name and IP address	Yes	
9	Download any patches and hot fixes and install	Yes	
11	Develop Active Directory structure including groups and users	Yes	
12	Develop mappings for DC disk drives	In proc.	
13	Develop login scripts	In proc.	
14	Develop rights policies for different groups		
15	Develop strategy for backing up the server		

16	Develop a strategy for transferring all data to the new servers		
----	---	--	--

### EXCHANGE SERVER

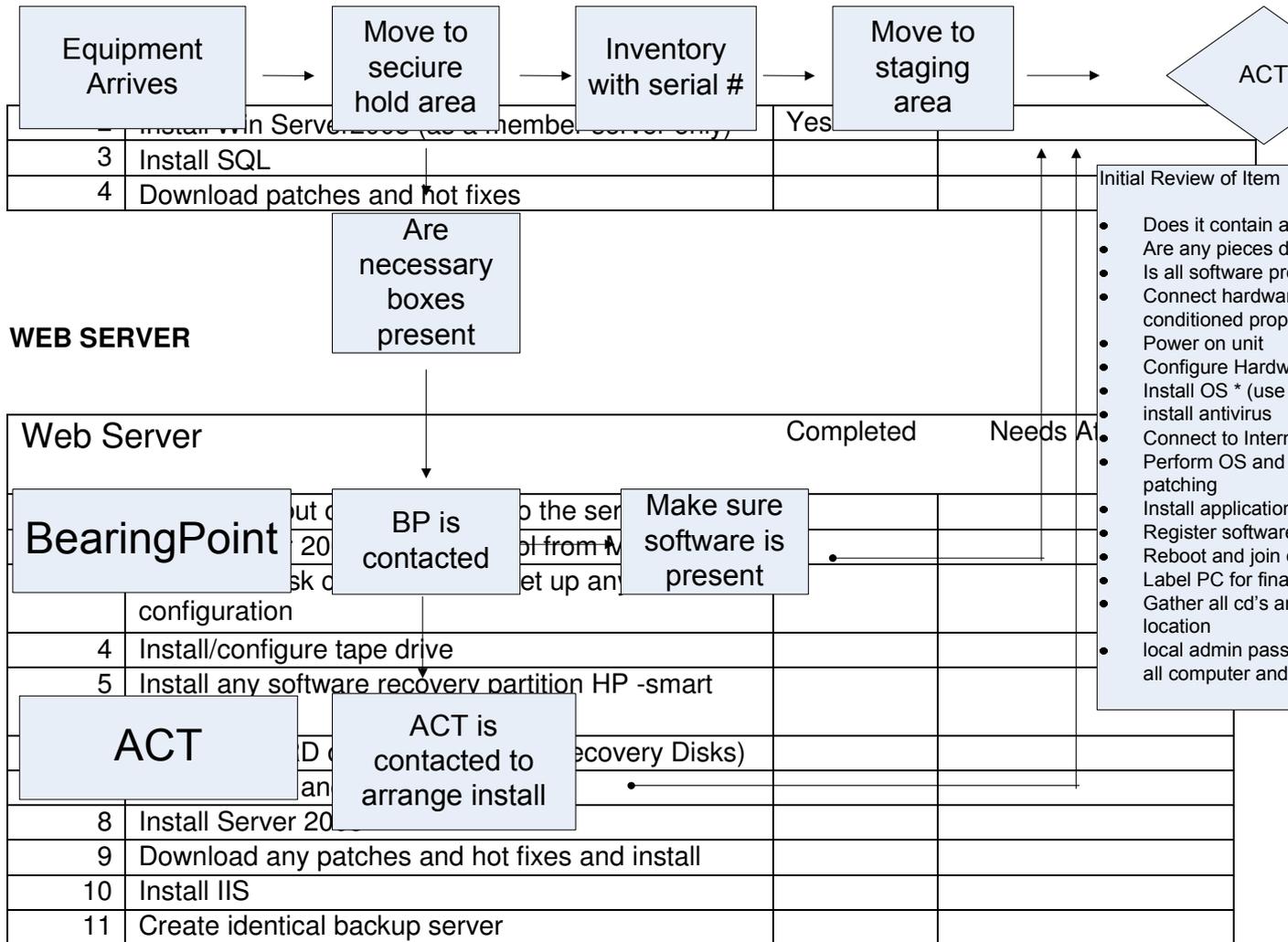
Exchange Server		Complete	Needs Attention
1	Send via Smart Host or DNS		
2	Exchange server IP address	Yes	
3	Port forward 25 to above IP on the router		
4	Will ISP provide DNS - if so what are IP addresses		
5	Is the ISP blocking any ports		
6	What is the name of the ISP outgoing mail server		
7	Define the connection type		
8	Configure exchange (where will the email be stored)	Yes	
9	Where will the database and logs go	Yes	
10	Where will the messages be stored	Yes	
11	Check for hot fixes and upgrades to Exchange	Yes	
12	How will Exchange be backed up		
13	Establish public folders schema		

### ISA SERVER

ISA Server		Completed	Needs Attention
1	Install UPS but do not connect to the server		
2	Setup the hardware	Yes	
3	Insure dual NIC's in ISA server		
4	configure firewall users for Internet access GPO		
5	Set up Internet Caching	Yes	
6	Close or move ports		
7	Determine which services to utilize		
8	Download patches and hot fixes	Yes	

### SQL SERVER

SQL Server		Completed	Needs Attention
1	Prepare hardware setup	Yes	



**GOVERNMENT FUND SERVER**

Government Fund Server		Completed	Needs Attention
1	Install UPS but do not connect to the server		
2	Setup the DC server and check its configuration with check it - make sure it has no hardware incompatibilities		
3	Run a server 2003 readiness tool from Microsoft		
4	Install the Disk controllers and set up any RAID configuration		
5	Install any software recovery partition HP - smart start)		
6	Make any ERD disks (Emergency Recovery Disks)		
10	How should we partition the main server		
7	Server name and IP address		
8	Install Server 2003		
9	Download any patches and hot fixes and install		

11	Develop Active Directory structure including groups and users		
12	Develop mappings for DC disk drives		
13	Develop login scripts		
14	Develop rights policies for different groups		
15	Develop strategy for backing up the server		
16	Develop a strategy for transferring all data to the new servers		

**Technical Assistance for Policy Reform II**  
**BearingPoint, Inc,**  
**18 El Sad El Aali Street, 18<sup>th</sup> Floor,**  
**Dokki, Giza**  
**Egypt**  
**Country Code: 12311**  
**Phone: +2 02 335 5507**  
**Fax: +2 02 337 7684**  
**Web address: [www.usaideconomic.org.eg](http://www.usaideconomic.org.eg)**