

مركز إيداع الأوراق المالية
Securities Depository Center

Securities Depository Center
Virtual Environment Project

Request For Proposal

Securities Depository Center
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1. Project Objectives

SDC is looking to refresh its server infrastructure by replacing the existing VMware servers at both the Main and High Availability (HA) sites.

SDC aims to achieve the following objectives:

- Replace the existing servers at both the Main and High Availability (HA) sites with the latest available server models on the market.
- Improve the Business continuity plan.
- Migrate the current virtual machines from the old VMWare environment to the new one.
- Provide new VMWare standard license.

2. SDC VMware Infrastructure

SDC operates two VMware clusters: one at the Main Site and the other at the High Availability (HA) Site.

The following provides an overview of the current technical infrastructure at SDC's Main and HA sites:

At the Main Site, the virtual environment consists of six blade servers of the IBM Flex System x240 model. Each server is equipped with 2 x Intel® Xeon® E5-2680 CPUs running at 2.7 GHz with 8 cores each, and 128 GB of RAM.

At High Availability (HA) Site, the virtual environment consists of six Lenovo Flex System x240 M5 blade servers model. Each server is equipped with 2 x Intel® Xeon® E5-2667 v4 CPUs operating at 3.20GHz with 8 cores each, and 256 GB of RAM.

In each site, the blade chassis is connected to MDS 9132T 32-Gbps SAN switches, which link the chassis to the Dell EMC PowerStore 1200T SAN Storage and the Dell EMC Metro Node MN-215 Base appliance. The Main and HA sites are interconnected via a dedicated dark fiber link, ensuring latency of less than 5 milliseconds.

Current physical VMware environment components:

Main Site	HA Site
Dell EMC PowerStore 1200T Storage	Dell EMC PowerStore 1200T Storage
2 X Dell EMC Metro node MN-215 Base	2 X Dell EMC Metro node MN-215 Base
2 X MDS 9132T 32-Gbps SAN Switches	2 X MDS 9132T 32-Gbps SAN Switches
6 X IBM Flex System x240 blade servers	6 X Lenovo Flex System x240 M5 blade servers



3. Project Scope of Work

- Supply and install the required servers in Main and HA sites.
- Supply and install the required VMWare software and licenses in Main and HA sites.
- Connect the new servers to network switches, SAN switches and the storage system.
- Install and configure the new solution across all sites in accordance with best practices and vendor recommendations.
- Migrate the current virtual machines to the new environment.
- provide full documentation for the implementation and migration steps.
- Provide 5 Years mother company warranty with 24X7 support for the servers.
- Provide required VMware licenses for 1 year with mother company and local support.

4. Proposed Solution Design and Implementation Plan

Bidding companies are required to submit a clear design for the proposed solution, which should include:

- A detailed overview of the system components such as servers, network infrastructure, storage.
- Explanation of how the new solution will integrate with the existing infrastructure to ensure smooth operation.
- Design of the VMware environment including configuration, resource allocation, and high availability features to guarantee reliability.
- A well-defined migration plan to transfer virtual machines from the current environment to the new environment with minimal downtime.
- Security measures are incorporated into the design to protect data and systems.

The design should be clear, functional, flexible, and incorporate robust security measures to meet the SDC needs while adhering to industry's best practices.

5. Required Technical Specifications for Servers

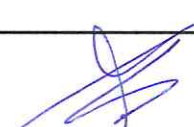
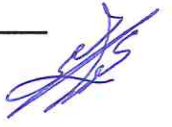
Component	Specification	Qty per server
Industry recognition	well-known brand server	
Servers Qty	6 Servers, distributed in main and HA sites	
Processor	Recent Intel Xeon Gold CPU with 16 cores per CPU Min 2.8 GHz	2
Memory	Each server should be equipped with 1TB DDR5 RAM and have sufficient free slots to support future expansion to at least 1.5TB without the need to remove the existing memory modules.	
Disks	Min 480 GB SSD disks configured RAID 1.	2
Network	Dual port 10/25GbE with 10Gb SFPs.	1
	Dual port 10 Gb Ethernet Adapter	1
HBA	32Gb FC Dual-port HBA.	2
Power Supply	Hot-Plug/Swap power supply	2
Form Factor	Rack Form factor, with rack mounted kit and cable management.	
Cables	All the required cables and all power connectors should be provided.	
Management	Provide dedicated management port for remote access.	
RAID controller	Support multiple RAID levels (0, 1, 5, 6, 10) with min 8GB cache.	
Warranty	5 Years 24x7 Mother Company warranty with maximum one week parts replacement (Parts/Labors). with local support.	

6. Required Technical Specifications for VMware Licenses

VMware standard license should cover 192 cores.

7. Servers Warranty

- 5 Years 24x7 Mother Company warranty/local support within one week parts replacement (Parts/Labors).



8. Project General Terms and Conditions

- Bidder must provide CVs for technical team in Jordan including VMware certified engineers.
- Bidder must be at least a Gold partner or equivalent with the hardware vendor in Jordan.
- Bidder must be a VMware partner in Jordan, and must provide partnership level.
- Bidder's company must be officially registered and presented office in Jordan.
- Bidder must have excellent experience in similar environments, providing list of references for the proposed solution in Jordan.
- Bidder is responsible for installing and configuring the new solution in all sites based on vendor best practice and recommendation.
- Bidder is responsible for migrating the current VMs to the new environment.
- Bidder is responsible for providing detailed documentation for the implementation, configuration and migration steps.
- Bidder is responsible for providing knowledge transfer and practical experience for SDC engineers during project implementation.
- Any required cables or SFPs to connect the hardware is bidder's responsibility.
- Questions must be sent to itsdc@sdcc.com.jo

Software Technical Evaluation (85%)

Requirements	Compliance (Yes/No/ Partially)	Mark	Notes /Ref/Evidence
Solution design and description along with the action plan for implementation and migration.	35		
Detailed references of similar or larger-scale projects, preferably within the Jordanian financial sector.	20		
Number of specialized and certified engineers holding relevant technical certifications in VMware technologies.	15		
Partnership Level with the Parent Company.	15		

Hardware Technical Evaluation (85%)

Requirements	Compliance (Yes/No/ Partially)	Mark	Notes /Ref/Evidence
The highest technical quality for server specifications.	50		
Availability of critical spare parts locally and rapid response time for replacement or support.	15		
Additional Performance Enhancements.	10		
Partnership Level with the Parent Company.	10		

Note:

- 1) Vendors providing a fully integrated solution, including both hardware and software components, shall be awarded an additional 15 points in the technical evaluation
- 2) Bidder must achieve a minimum technical evaluation score of 75% or above to qualify for the financial evaluation phase.