



*in the footprints* ●●●

**NELSON MANDELA MUSEUM**

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 Department of Arts and Culture

15 June 2018

## ICT INFRASTRUCTURE SPECIFICATION- PHASE 2

### 1. INTRODUCTION

The Nelson Mandela Museum (NMM) operating in two sites, namely Bhunga Building and Nelson Mandela Youth & Heritage Centre in Qunu has a dynamic and enviable opportunity to serve South Africa, as a steward of a living legacy, to share and learn the true story of Nelson Mandela in context, in ways that inspire and empower people.

### 2. ASSIGNMENT OBJECTIVE

NMM seeks the services of a qualified and experienced company to install a server, firewalls and software. The specification for this request is as set out below;

#### 2.1 Server

	<b>High Performance Models</b>
<b>Model Name</b>	
<b>Processor</b>	6130 (16-Core, 2.1 GHz, 120W)
<b>Number of Processors</b>	Two processors
<b>Memory</b>	64 GB RDIMM DR 2666 MT/s (2x 32 GB)
<b>Network Controller</b>	1Gb Ethernet 4-Port 331i Adapter plus Ethernet 10/25 Gb 2-port 640FLR-SFP28 Adapter (817749-B21)
<b>Storage Controller</b>	P408i-a <b>NOTE:</b> 8-Port Modular Smart Array. <b>NOTE:</b> Smart Storage battery included.
<b>Hard Drive</b>	10TB
<b>Internal Storage</b>	8 SFF Chassis (upgradeable to 24 SFF front + 6SFF rear)
<b>Optical Drive Bay</b>	Universal Media Bay (826708-B21)
<b>Optical Drive</b>	DVD-RW

<b>PCI-Express Slots</b>	6 total: 3-slots (x8, x16, x8 with m.2) as standard, plus 3 PCIe (x8, x16, x8)
<b>Power Supply</b>	2x 800W FlexSlot power supply
<b>Fans</b>	6-standard fans
<b>Energy Star</b>	2.1 certified
<b>Form Factor</b>	2U Rack, Easy Install rails with CMA
<b>Warranty</b>	5-3-3

## 2.2 Firewall

### Hardware

GE RJ45 WAN/DMZ Ports	2/1
GE RJ45 Internal Ports	7
USB Ports	1
Console (RJ45)	1

### System Performance

Firewall Throughput (1518/512/64 Byte UDP Packets)	3/3/3 Gbps
Firewall Latency (64 byte UDP packets)	3 $\mu$ s
Firewall Throughput (Packets Per Second)	4.5 Mpps
Concurrent Sessions (TCP)	1.3 Million
New Sessions/Second (TCP)	30,000
Firewall Policies	5,000
IPsec VPN Throughput (512 byte)	2 Gbps
Gateway-to-Gateway IPsec VPN Tunnels	200
Client-to-Gateway IPsec VPN Tunnels	500
SSL-VPN Throughput	150 Mbps
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	100
SSL Inspection Throughput (IPS, HTTP)	175 Mbps
Application Control Throughput (HTTP 64K)	650 Mbps
CAPWAP Throughput (HTTP 64K)	890 Mbps
Virtual Domains (Default / Maximum)	10/10
Maximum Number of Switches Supported	8
Maximum Number of FortiAPs (Total / Tunnel Mode)	30/10
Maximum Number of FortiTokens	100
Maximum Number of Registered FortiClients	200
High Availability Configurations	Active/Active, Clustering

### System Performance – Enterprise Traffic Mix

IPS Throughput	400Mbps
NGFW Throughput	250 Mbps
Threat Protection Throughput	200 Mbps

## 2.3 Installation and configurations

- Installation of Windows Server 2016 R2 Standard – **License to be provided by the NMM**
- Create Virtual environment, Hyper-V
- Create new virtual machines
- Install Active Directory
- Create new forest
- Create DNS
- Create DHCP
- Create File Server
- Create WSUS
- Install and configure firewall

Functionality will be evaluated independently using the following criteria;

Value: 1=Poor; 2=Average; 3=Good; 4=Very good; 5=Excellent

Criteria	Weight	Value	Actual Score
Level of Experience (Projects of a similar nature)	30	5 – More than five projects 4- Five projects 3- Four projects 2- Three projects 1- Less than project	
Methodology and Project Management (Max 5 pages)	20		
Server engineer/systems administrator (MCSE or MCITP certification)	20	5- more than five years experience  3- five years experience  1- less than five yrs experience	
Firewall certification	20	5- more than five	

		years experience 3- five years experience 1- less than five yrs experience	
Local Supplier (Proof of residence)	10	5- OR Tambo region 3- Other regions within EC 2- Other regions outside EC Province 1- Outside SA	
<b>Total</b>	<b>100</b>		<b>(So)</b>

Functionality will further be used as the evaluation stage which will determine bidders who qualify for the next stage of evaluation, namely Price and other specific goals, with a result that any bidder who scores **less than 70 points** on functionality will be disqualified and not considered for the next stage.

## PROPOSAL REQUIREMENTS

- ❖ Company profile.
- ❖ All bidders must be registered on the National Treasury central database (CSD) and attach a copy of the most recent report to your tender document.
- ❖ Original and valid and / or certified copy of B-BBEE status level certificate bearing South African National Accreditation Systems (SANAS) logo from an accredited verification agency or a sworn affidavit. Failure to submit a valid B-BBEE certificate will result in zero preference points being awarded for B-BBEE.
- ❖ CVs and professional registration certificates of all involved as per evaluation criteria.

- ❖ References should be provided, as well as an indication of experience with similar projects.

## GENERAL

Completed proposals with supporting documentation must be sent to this email address [supplychain@nelsonmandelamuseum.org.za](mailto:supplychain@nelsonmandelamuseum.org.za) on or before **Wednesday, 11<sup>th</sup> July 2018 at 12H00 mid-day**

## ENQUIRIES

Enquiries may be directed to the following persons:

FOR BID ADMINISTRATION & SERVICE PROVIDER SPECIFICATIONS
Mr: T. MKHOHLIWE
Tel: 047 501 9504
Email: <a href="mailto:tthemobile@nelsonmandelamuseum.org.za">themobile@nelsonmandelamuseum.org.za</a>
SUPPLY CHAIN MANAGER
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IT OFFICER

*Should the service provider have reason to believe that the Terms of Reference are structured for a particular brand or service provider, they should raise the objection in writing with the Nelson Mandela Museum within 10 days from the placement of the advert.*

**Mr B. Tyhulu**  
**Chief Executive Officer**

**Signature:**

**Date:**