

## UNIDADE DE GESTÃO DE PROJECTOS ESPECIAIS

### CABO VERDE TECHNOLOGY PARK – PHASE II

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**IFB Number:** 011/CVTP-II/UGPE/2024  
**Purchaser:** Unidade de Gestão de Projectos Especiais (UGPE) | Ministério das Finanças e do Fomento Empresarial  
**Project:** Cabo Verde Technology Park (CVTP) – Phase II  
**Contract title:** Supply, Installation of IT Equipments and Training for the Technology Park Data Center (DC3): DataCenter IT DataCom – Phase II  
**Country:** Republic of Cabo Verde  
**Loan No. / Grant No.:** 2000200005602  
**Procurement Method:** Open Competitive Bidding (International)  
**OCBI / LCB No:** GDS3

### CLARIFICATION # 5

Question no.	Page	Section	Question	Answer
Q 17*	Page 105  iSCSI Switch – 2 units  - Fixed Form factor switch (1RU) - Smart buffer capability (AFD / DPP). - Dual AC Power supplies. - 6 ports 40G/100G QSFP28 and 48 10/25GE SFP+ interfaces. - Flexible port configurations – 1/10/25/40/100G.	Section VII - Schedule of Requirements	1. It appears that the requirements miss iSCSI-related features, such as support for QoS, Flow Control, Jumbo Frames, low latency, Link Aggregation, and iSCSI optimization. Please confirm that the provided set of features in the requirements is the complete list that must be met by proposed iSCSI switches.  2. Please confirm whether dedicated iSCSI switches are required, or if it is possible to allocate the necessary ports for iSCSI communication in aggregation switches to avoid extra devices.	3. The iSCSI should comply with most standards for the usage that is being asked of them (e.g: Jumbo Frames), also switches are to be segregated. This last requirement comes from the necessity / best practice to isolate storage traffic from data traffic in the event of an issue with the general data plane of communication (e.g: spanning tree issues and other related that could create a downtime).
Q 19*	Page 106 Firewall – 2 units  - Equipments must integrate with the existing solution on DC1 to provide active-active between DC1 and DC3 on both security layers  Page 116  Network infrastructure <...> Currently at DC1 the firewall layer is comprised of two levels of firewalls as outlined: • 2 x Palo Alto 5250 • 2 x Fortigate 1101E It is mandatory that the solution provided allows for a seamless transition (Active-Active Mode) and failover however other solutions with that allow for similar functionality, with the lowest possible points for manual interaction or time to	Section VII - Schedule of Requirements	Please clarify what type of integration is required. Should the supplier provide a single cluster of firewalls for DC3, or should they provide two separate firewalls that can integrate with the existing two levels of firewalls - Palo Alto and FortiGate - currently in place at DC1?	This topic should be in line with what is written as a response in Question 27 and Question 30.

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	recovery.			
Q 26*			<p>Regarding the point on the tender on the role of each datacenter DC1 and DC3 it's written in the same document two different topologies.</p> <p>On page 116 from the document there are conflicting points: "The requirement is that DC1 and DC3 be enabled to work as an extension of each other and should the need arise to act as failovers of each other respectively.", which points to a failover topology.</p> <p>"It is mandatory that the solution provided allows for a seamless transition (Active-Active Mode) and failover however other solutions with that allow for similar functionality, with the lowest possible points for manual interaction or time to recovery.", which points to an active active configuration with L2/L3 being "transversal" to both datacenters. Which is the requirement for this point?</p> <p>Also, on the same point what is the expected integration/extension on all of the various layers of software / platforms on both DC's, that NOSi expects to have by the end of the project?</p>	<p>The phrase on the original document have unfortunately been poorly phrased. The requirement is "The requirement is that DC1 and DC3 be enabled to work as an extension of each other and should the need arise to act as failovers of each other respectively.", which in fact points to a failover topology. It is valued nevertheless that an L2 extension be created between both datacentres to enable the usage of replication, less important workloads and so forth.</p> <p>It is however highly valued that the maximum number of integrations to enable a smooth transition from services from one datacentre to the other be provided and be put in place. This criteria is also applicable to the other items on this bidding.</p>
Q 41*	<p>DC3 is subdivided in 2 building with 32 server and 1 storage each?</p> <p>The backup will be destined in only one building?</p>			<p>Refer to Q33, two specific machine requirements are outlined in the document as such those rules/specific hardware profiles must be adhered to.</p>
Q 42*	<p>Server quantity: how much server we need to supply in total? 32 or 64? Is it supposed to supply server for two different buildings and any building have 32 servers?</p>			<p>Refer to Q33, two specific machine requirements are outlined in the document as such those rules/specific hardware profiles must be adhered to.</p>
Q 47			<p>We kindly ask you to provide the map of the rooms where the datacenter should be installed with the dimensions and distance.</p>	<p>For this competition we do not consider it necessary to know the floor plan"</p>

\* Regard to Clarification No. 4, please note that the answers to questions Q17, Q19, Q26, Q41 and Q42 have been changed.

UGPE, November 05, 2024