

APPOINTMENT OF A SERVICE PROVIDER TO ASSIST THE INDEPENDENT COMMUNICATION AUTHORITY OF SOUTH AFRICA WITH THE PROCUREMENT OF ADDITIONAL STORAGE SOLUTION, INSTALLATION AND MAINTENANCE FOR A PERIOD OF 5 YEARS ON AN 80/20 PPPFA 2000, PREFERENTIAL PROCUREMENT REGULATION: 2017.

1. Background and Scope

Additional Storage Solution is a critical service that is required to ensure that ICASA can save and retain its data for operational and compliance purposes. Currently, ICASA is using Tintri Storage solution which is nearing its capacity. To date, ICASA has used approximately 30.72TB of 46.7TB of the total storage since 2018. Therefore, approximately 16TB is available and may run out before April 2021.

The IT department will be creating an archiving platform by moving approximately 15TB of old data to the new storage to free up some space on the main Tintri storage solution in order to ensure business continuity.

The proposed solution by the certified bidder will include the installation, configuration, maintenance of the system including all mounting and racking activities, activation and confirmation of the licenses involved.

2. Specifications

The terms of reference / specifications for an additional Storage implementation and maintenance solution is for a period of 5 years as per attached Annexure A.

3. Briefing Session

No briefing session will be required.

4. Special Mandatory Conditions

The following are special mandatory conditions for the proposed solution:

Substantiate / Comments		
Special Condition		
Service provider must be able to provide and install a storage solution with a minimum of 30TB of SSD	Comply	Not Complied

drives and 65 TB of raid spin drives (10K RPM or higher)		
Special Condition		
Service Provider to provide a license and maintenance on the equipment and drives for the proposed solution for a period of 5 years with a 4-business hour replacement for any failed component.	Comply	Not Complied
Special Condition		
Proof of Vendor-Manufacturer Relationship. Bidders must supply evidence of a Vendor-Manufacturer relationship together with their proposals. The period of relationship must be at least 1 year.	Comply	Not Complied
Special Condition		
Appliance must have a management console for the Storage Solution.	Comply	Not Complied
Special Condition		
The storage system must consist of 10 Gbit/s Fibre Channel over Ethernet (FCoE)	Comply	Not Complied

5. Technical Requirements:

		Comply	
		Yes	No
1	Additional drives must be purchased through multiple distribution channels		
2	The solution should be expandable to beyond the proposed size of 30TB of SSD drives and 65 TB of raid spin drives by only having to purchase additional storage drives		
3	The solution provides an ability to extend the existing storage without formatting and reconfiguring the existing hard drive		
4	The solution must protect the integrity and availability of data during a network outage		
5	Data loss must be minimized or avoided with your solution when an immediate or "non-graceful" shutdown is experienced		
6	The solution must provide for real time hardware and service monitoring		
7	The solution must allow Microsoft Windows Server 2012 R2 and 2016 to auto-reconnect to Storage Solution volume upon reboot		
8	The solution must allow for the creation of snapshot images		
9	The system must provide the ability to adjust performance parameters based on changing business requirements		
10	The solution must be capable to dynamically expand volumes (physically, logically, plus re -stripe)		
11	The proposed product must provide Logical Unit Number (LUN) based Quality of Service (QOS)		
12	The solution must provide for the upgrading to larger capacity disk drives as they become available		

13	The proposed system must facilitate real-time (no interruption of service) firmware upgrades of disk drives, shelves, and associated controllers		
14	The Storage Area Network (SAN) solution must facilitate storage clustering		
15	The SAN solution must allow for real time management		
16	The SAN must have the capabilities to report storage resource objects and generate a data usage report that can lead to a charge-back report		
17	The SAN must include the capability to report the overall and detailed views of current and historical utilization		
18	The storage management system must include comprehensive online and remote monitoring abilities		
19	The proposed solution must have data replication capabilities		
20	The proposed solution must be capable of SAN snapshot creation, retention and rollback capabilities wizard driven		
21	The proposed solution must provide remote administration capabilities built -into it		
22	The proposed solution must use redundant network paths to/from connected servers		
23	Local hardware support must be available		

6. **Evaluation of the Bids**

The received bids will be evaluated on the 80/20 procurement principle as per the Supply Chain Management Policy and the relevant Treasury Regulations. The following evaluation approach will be applied:

- Phase 1 will be the screening of mandatory documents, ensuring compliance thereof and evaluation of specific goals.
- Phase 2 evaluation of functionality criteria
- Phase 3 will be evaluation on price and BBEE.

Functionality Evaluation Criteria	Weights	Scoring Criteria
Provide a minimum of 3 contactable Customer references where storage solution has been implemented successfully in the last 5 years. (References should be provided on relevant company letterhead)	20	1= No response 2 = 2 references provided 3 = 3 references provided 4 = 4 references provided 5 = 5+ references provided
Conformance to technical requirements of the tender as specified in Section 5 above	80	1 = complies to less than 15 requirements. 2 = complies to 15-19 requirements including protecting the integrity and availability of data during a network outage (#4), and minimal data loss (#5) and to dynamically expand volumes (#10).

		<p>3 = complies to 20 requirements including protecting the integrity and availability of data during a network outage (#4), and minimal data loss (#5) and to dynamically expand volumes (#10).</p> <p>4 = complies to 22 requirements including protecting the integrity and availability of data during a network outage (#4), and minimal data loss (#5) and to dynamically expand volumes (#10).</p> <p>5 = complies to all 23 requirements</p>
Total	100	Minimum threshold is 80

Only bidders who passed the threshold of 80/100 for functionality will be evaluated further for price and BBEE.

Annexure A Specification Scope of Work

Current Infrastructure

ICASA Head Office hosts a Microsoft and Linux environment for central authentication, file sharing, centralised application hosting and SAN storage (Tintri VMStore T880 Storage solution), interconnecting to 9 regional offices through a 4 Mbps MPLS line and an 80 Meg bandwidth to the internet.

Technical Requirements

ICASA would like a Service Provider to provide an additional storage of at least 30 TB of SSD drives and 65 TB of raid spin drives (10K RPM or higher) for a period of 5 years with the following minimum requirements:

		Comply	
		Yes	No
1	Additional drives must be purchased through multiple distribution channels		
2	The solution should be expandable to beyond the proposed size of 30TB of SSD drives and 65 TB of raid spin drives by only having to purchase additional storage drives		
3	The solution provides an ability to extend the existing storage without formatting and reconfiguring the existing hard drive		
4	The solution must protect the integrity and availability of data during a network outage		
5	Data loss must be minimized or avoided with your solution when an immediate or "non-graceful" shutdown is experienced		
6	The solution must provide for real time hardware and service monitoring		
7	The solution must allow Microsoft Windows Server 2012 R2 and 2016 to auto-reconnect to Storage Solution volume upon reboot		
8	The solution must allow for the creation of snapshot images		
9	The system must provide the ability to adjust performance parameters based on changing business requirements		
10	The solution must be capable to dynamically expand volumes (physically, logically, plus re -stripe)		
11	The proposed product must provide Logical Unit Number (LUN) based Quality of Service (QOS)		
12	The solution must provide for the upgrading to larger capacity disk drives as they become available		
13	The proposed system must facilitate real-time (no interruption of service) firmware upgrades of disk drives, shelves, and associated controllers		
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16	The SAN must have the capabilities to report storage resource objects and generate a data usage report that can lead to a charge-back report		
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