



City of Galveston

DEPARTMENT OF INFORMATION TECHNOLOGY

STAFF REPORT

Date October 28, 2021

To: City Manager
Mayor and City Council Members

From: Hope Dean, Executive Director & CITO

Project location: N/A

Project: Production Data Center Equipment Refresh

Request:

A motion authorizing a contract with Centre Technologies for the purchase of one (1) Dell PowerStore Storage Area Network array (SAN), four (4) Dell PowerEdge R750 Servers, Cohesity Storage expansion, Microsoft azure instance and other associated hardware and software including related professional services for \$360,575.17; establishing a 10% project contingency of \$36,057 for a total authorization of \$396,632.17 utilizing DIR contracts TSO-3763, TSO-4299, TSO-4144, and CPO-4452

Prior Council Action

None

Background

1. In late 2017/early 2018, the City completed implementation of a new Dell Compellent Storage Area Network array (SAN), replacing older less powerful SAN equipment, at the City's primary data center located in the Criminal Justice Center at 601 54th Street. This environment provides data and application services to all City Departments including email, file storage, application presentation, public safety, and phone system services. This virtualized server environment ensures the City is utilizing current technology, and has virtually eliminated physical server installations resulting in a cost savings and increased efficiency by reduced power consumption, reduced hardware replacement costs, and more efficient system administration.



2. In late 2017, staff requested and council approved a project to upgrade City's critical production SAN and the purchase a backup appliance. The SAN remains in production today.
3. In 2019, staff requested and council approved a project to establish an off-site disaster recovery site. Included in that project was the purchase of compute power to replace older physical servers at the production site. Equipment pulled out of the production Data Centre from the prior two projects was repurposed to build out a secondary off the Island disaster recovery center.
4. The 3 EqualLogic SANs currently located at the Disaster recovery site are 8+ years old and over their useful life. The City is unable to obtain support on the aged equipment.
5. The current production SAN equipment is now 4 years old. I respectfully request that council approve the upgrade of the current production SAN and compute equipment with newer technology. The existing production SAN and compute power will be repurposed and moved to the off the Island secondary disaster recovery site and current disaster recovery equipment will be marked for surplus due to its age.
6. Included in the project is the expansion of the current backup and recovery solution for non-tier 1 replicated systems and long-term backup storage, which is needed to ensure that we can restore non tier 1 application from the latest backup.
7. Replacement production equipment cost includes 5 years of dell pro 4 hour mission critical support.

Fiscal Impact Report:

- Funding Source: Technology Improvement Fund
- Total Cost.

One Time Cost

Description	Cost
Storage Area Network Array (SAN)	\$137,731.10
Compute Power (4 Physical Servers)	\$75,898.04
Cohesity Backup Expansion	\$97,256.03
Technical Services	\$49,690
10% Contingency	\$36,057
Total	\$396,632.17

Recurring Monthly Fees (Long Term Backups)

Description	Cost
Microsoft Azure Instance	\$1099.09

Alternatives

- Option 1 – Approve the purchase of the replacement equipment.
- Option 2 – Do not approve the purchase of the replacement equipment. This option would place the city at risk from a catastrophic failure event.

Staff Recommendation

Option 1 – Approve the purchase the equipment

Attachments

Quote # 49528

Quote # 49983