HCI Platform VxRail

November 2, 2020

Port of Stockton
CALIFORNIA

HISTORY

2007 - 2010
- Grants Coordinator hired
- $6,090,003 grant funding for I.T. projects

2010 - 2013
- I.T. recommendations

2010 - 2011
- Systems Integrator

2013 - 2018
- Technology gap analysis

HISTORY: *PSGP I.T. PROJECTS*

Year	Amount	Project
PSGP 2007	$ 1,378,467	Wireless mesh system - digital communications - cameras
PSGP 2008	$ 1,000,000	Cameras - geospatial I.T.
PSGP 2009	$ 1,712,036	Fiber installation on the east and west complexes
PSGP 2010	$ 1,999,500	Software / licensing - cameras
PSGP 2012	$ 2,315,183	Geospatial I.T. - software / licensing / maintenance support
PSGP 2013	$ 1,706,400	Cyber security penetration testing -software / licensing / maintenance support
PSGP 2015	$ 1,334,462	Cyber security -software / licensing / maintenance support
PSGP 2016	$ 973,864	Software / licensing / maintenance support
PSGP 2018	$ 991,529	Hyper Convergence technology- software / licensing / maintenance support

PRIOR COMMISSION ACTIONS

- Resolution #8117, March 18, 2019: Purchase two Cisco 9410 Next Generation Enterprise Switches for $155,957.43.

- Resolution #8118, March 18, 2019: Purchase Hyper Converged Infrastructure (HCI) for $251,857.

- Resolution #7745, September 19, 2011: Agreement for Enterprise Technology Infrastructure Platform (ETIP) Project for $2,237,193.

- Resolution #7729, June 13, 2011: Award a contract for Emergency Response and Communications for $1,388,000.

- Resolution #7728, June 13, 2011: Award a contract for TWIC Infrastructure and Communications Hub for $1,149,190.

- Resolution #7708, February 7, 2011: Agreement for a Systems Integrator for a Not to Exceed amount of $798,600.

- Resolution #7670, June 14, 2010: Award a contract for Maritime Domain Awareness - Wireless Communications and Access Tracking System for $997,334.

OVERVIEW
Hyper Converged Infrastructure (HCI) VxRail

- Enhancement of existing cyber security posture
- Fastest-growing category in datacenter security
- Improves the following:
  - ➢ IT agility and efficiency
  - ➢ Data encryption
  - ➢ Multifactor authentication
  - ➢ Stretched clusters
  - ➢ Degraded device handling capabilities

Included in purchase:

- Supply
- Licensing
- Support
- Installation
- Commissioning of all hardware components

Simplified Acquisition Threshold

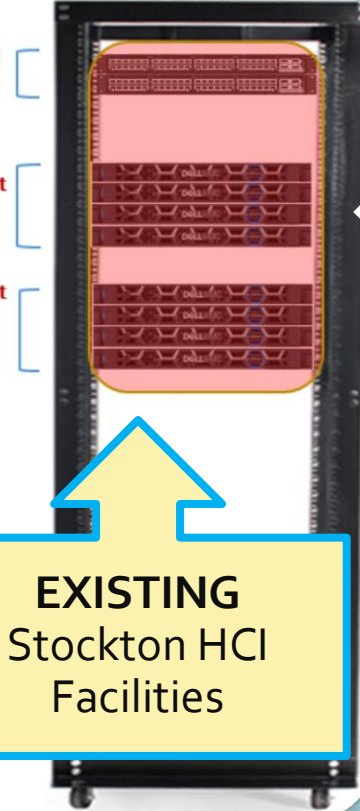- IT Savvy, LLC $269,775.00
- [RE]DESIGN Group $314,109.24

DATA CENTERS
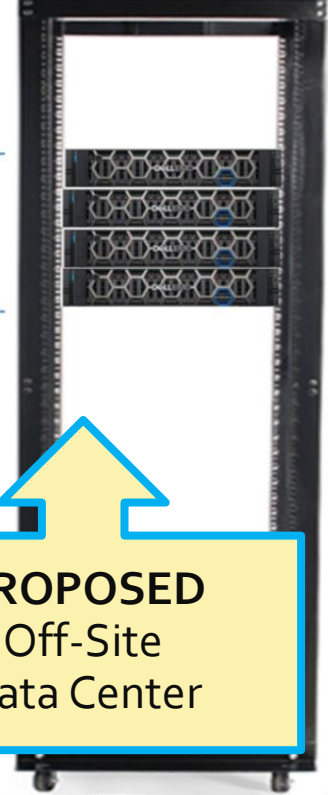

(1) Enterprise Switch
10 Total Rack Units

(4 1U) HCI Environment Virtual Desktops
4 Total Rack Units

(4 1U) HCI Environment Virtual Servers
4 Total Rack Units

Proposed Active-Active Data Centers

(4 2U) HCI Virtual Servers and Desktops
8 Total Rack Units

EXISTING Stockton HCI Facilities

PROPOSED Off-Site Data Center

BENEFIT TO THE PORT

- ✓ **Aligns with I.T. recommendations and planning**

- ✓ **Leverages grant funding**

- ✓ Expands I.T. infrastructure to commercial data center

- ✓ **Increases I.T. agility and efficiency**

- ✓ Includes: Hardware/software platform, required licensing, tech support, and installation

FINANCING

- FEMA Grant 2018-PU-00648 75% $202,331.25
- Port Match 25% $67,443.75

COMPLETION TIME

➢ Once purchased, ETA is 30 days

➢ Equipment would be implemented by March 1, 2021

RECOMMENDATION

A. Authorize the Port Director to purchase Hyper Converged Infrastructure (HCI) Platform from I.T. Savvy, LLC for a total cost of $269,775.