



TO: Mayor Chuck Barney
Members of the City Council

FROM: Paul Ulrickson, IT Manager Networks/Communication

DATE: December 27, 2017

SUBJECT: VIRTUAL SERVER ENVIRONMENT CONSOLIDATION AND UPGRADE

I. RECOMMENDED ACTION

1. Recommend award to Dell EMC in the amount of \$221,269.11 for a Dell VxRail 4.0 E560F virtual environment.
2. Recommend the Committee and Council to pass an ordinance amending the 2018 annual budget.
3. Approve the use of Sales Tax – Major Projects.

II. DEPARTMENT CONTACT PERSONS

Jason McKibben, IT 857-4722
Paul Ulrickson, IT 857-4172

III. DESCRIPTION

A. Background

The City of Minot currently has two virtual server environments comprised of hardware originally purchased in 2013. One environment contains virtual servers dedicated to City functions (application, file and database servers) and the other environment contains servers dedicated to Public Safety functions, shared by multiple agencies including Minot PD, Minot Central Dispatch and Ward Co Sheriff’s Office. The hardware in both environments has reached its generally accepted end of life and should be replaced, as extended hardware maintenance is not available in 2018. Mission critical applications and data are provided through these environments and system up time is a high priority. The Information Technology department cannot ensure delivery of the environment up-time requirements if the City stays on the current hardware. This project would allow the City to consolidate the two existing environments into one, decreasing IT workload, improving department and systems efficiency and providing a stable, warranted system with growth capacity for the next 5 years. Consolidation of these environments is more fiscally prudent than replacing each individually. Project costs will be divided between City, County and 911 budgets, based on expected, overall system usage. This project also includes the replacement of the current disaster recovery environment, software licensing and implementation.

B. Proposed Project

Purchase a single virtual environment with the hardware capacity to support both environments that are approaching warranty expirations and hardware life expectancies.

Bids were opened on December 13, 2017 and they are as follows:

<u>Bidder</u>	<u>Make/Model</u>	<u>Price</u>
Dell EMC	Dell VxRail 4.0 E460F	\$216,684.83 (3 year)

Dell EMC	Dell VxRail 4.0 E460F	\$238,109.91 (5 year)
Dell EMC	Dell VxRail 4.0 E560F	\$222,686.15 (3 year)
Dell EMC	Dell VxRail 4.0 E560F	\$243,886.19 (5 year)
Softchoice	Dell VxRail 4.0 E460F	\$269,283.03 (3 year)
Softchoice	Dell VxRail 4.0 E460F	\$363,069.57 (5 year)

IV. IMPACT:

A. Fiscal Impact:

<u>Project Funding</u>	
429-7300-419.07-93	\$213,207
263-8000-491.32-10	\$8,243

This was a planned and budgeted project for 2018. The most complete and suitable configuration of the environments listed above totaled \$221,269.11. \$213,207 was budgeted as a Capital Purchase. The attached budget amendment would cover the remaining \$8,243, using the Sales Tax – Major Projects funding source.

V. ALTERNATIVES:

Alt 1. The City Council could choose to not to fund this replacement. The City’s data environment and Public Safety software would operate on hardware without warranty.

VI. TIME CONSTRAINTS:

Council’s approval of the recommendation will allow the environment to be replaced before maintenance becomes unavailable in April 2018.

VII. LIST OF ATTACHMENTS

A. Budget amendment