



Information Services Department  
**2017 Annual Report**

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## Hardware Upgrades

### Fire Dept. SCBA Mask Test

A new Dell OptiPlex 7050 computer is replacing an outdated server to facilitate an upgrade of the Fire Department's Drager Posi3, a Self-Contained Breathing Apparatus (SCBA) testing equipment, and the DS2 Docking Stations, for managing gas monitors. The SCBA testing system ensures that each firefighting mask is free from any leaks which could jeopardize Fireman safety. The DS2 Docking Stations provide automated calibration, record keeping, battery recharging, and instrument diagnostics for the gas monitors.



### CAT5 KVM Switch

The City's Police data center has upgraded to a new Keyboard, Video monitor and Mouse (KVM) switch which is a hardware device that allows a user to control multiple computers from a single keyboard, video monitor, and mouse. This is necessary because multiple servers exist in a single rack. The new KVM, a Tripp Lite 16-Port Net Commander 19" VGA Console CAT5 KVM switch, will support the latest Operating System to connect to it remotely.



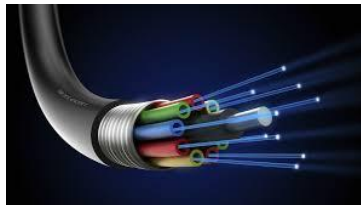
### Cisco ASA 5525 Firewall

Network security is being upgraded with the acquisition of a Cisco Adaptive Security Appliance (ASA) 5525-X firewall with enhanced software monitoring. It is replacing a Cisco ASA 5515 which will still remain in service, but act as an active standby.



### LRC Networked by FairlawnGig

The Learning Resource Center (LRC) is now directly connected to the Fairlawn network. This was made possible due to FairlawnGig fiber which has been installed into the LRC building. The building now has a Gigabit network connection which has significantly improved computer operations for the staff and allow the city to monitor the LRC cameras in real-time.



### Servers Purchased

Two new HP ProLiant DL380 G9 servers were purchased and are used as native hypervisors. One is hosting the Public Safety system that supports the Creative Microsystems Inc. (CMI) programs. The other new server is hosting CMI's Authority Finance and JBase programs, along with Laserfiche and BS&A.



### New Workstations

Thirty replacement computers were purchased for distribution throughout the City's departments. These new Dell OptiPlex 7440 All-In-One machines feature a 23" LED touchscreen, seventh generation Intel core processor and a solid state hard drive.



### Camera Display Upgrade

Fairlawn's 911 Center is home to a forty camera security system which features three large 60" televisions which act like monitors and constantly display upwards of 30 live camera views simultaneously. The computer which drives these Multiview's was upgraded with a Dell workstation specifically designed for the task.

## Software Changes

### Custom SSL Certificate

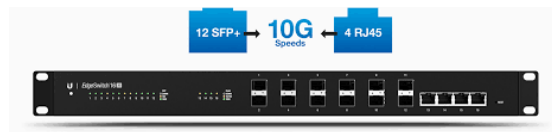
The City has made a move aimed at providing its' website visitors with more security. A custom SSL certificate was acquired which will support the move to a HTTPS City website. This contains a security protocol which includes encryption, data integrity and authentication. Web browsers are beginning to require it as a basic standard. The encryption better secures the exchange of data between the website and the user's computer. Data integrity guards against the modification of data during transfer which might otherwise go undetected. Authentication builds user trust and protects against attacks during transmissions.



## Projects

### Faster Network Backbone

The City continues to implement FairlawnGig technology by upgrading its network backbone from 1 Gigabit (Gb) to a 10 Gb data transfer rate between switches. The new FairlawnGig data center has ushered in 10 Gb data speeds and has paved the way to several network upgrades for the City.



### New Copier Lease

A new copier lease was signed which includes four machines located in City Hall, Finance, Fire and Police. A total of eight companies' submitted proposals with three making the final list. Lake Business Products is the City's existing vendor and they were the eventual winner with Canon equipment.



## Modular Battery Replacement

The Police Department's 911 Public Safety Answer Point (PSAP) center receives filtered and conditioned electrical power from a Schneider Electric 20 kW 208 V Uninterruptable Power Supply (UPS) unit. It has 16 module battery banks, each of which received new batteries. These batteries give the UPS approximately 45 to 50 minutes of run time under the existing load.



## Training and/or Seminars

### Community Cybersecurity

The training was offered on December 12<sup>th</sup>, 2017 by the Summit County Emergency Management Agency. It covered a wide range of possible threats which could impact a community and create serious disruptions to normal day to day operations. Cyber attacks can interfere, obstruct and/or paralyze business operations and emergency response efforts. This course identified threats, likely targeted operations and defensive measures that influence individual, organization and community preparedness.

