



**AGENDA
FINANCE AND ADMINISTRATION COMMITTEE
Monday, October 28, 2013
5:30 PM**

Mayor's Conference Room

I) Roll Call

(Mike Bennett, Chairman, Jerry Albrecht, Vice-Chair, John Drolet, Harlan Gerrish, Gene McCoskey)

II) Approval of Minutes from Previous Meeting- September 23,2013

Note: All recently approved committee minutes posted on official City website: <http://www.ofallon.org>

III) Items Requiring Council Action

None

IV) Other Business :

- A. Phone system option for Aldermen- Dan Gentry, IT
- B. Major IT Projects Update- Dan Gentry, IT

V) Informational Purposes Only- No Action/Discussion Required

- A. IT Update Report for September, 2013 (Attached to packet)
- B. Treasurer's Report/Cash Reserves as of 9/30/13 (Attached to packet)

VI) Adjournment

NEXT MEETING: Monday, November 25, 2013 – 5:30 P.M. – Mayor's Conference Room

General Citizen Comments: The City of O'Fallon welcomes comments from our citizens. The Illinois Open Meetings Act provides an opportunity for citizens to speak at all committee and Board meetings. However, 5 ILCS 120/1 mandates that NO action shall be taken on matters not listed on the agenda. Please submit your name to the chairman and limit your comments so that anyone present has the opportunity to speak

Information Technology

September 2013 Report

Major Projects & Areas of Focus for September

New World Aegis Upgrade to 10.1 (Public Safety)

Received feedback from pre-upgrade survey. We need to make some adjustments to existing setup and resubmit before scheduling upgrade from version 9 up to 10.1.

New World Logos (Finance, HR, Payroll and Utility Billing)

Hosted on-site follow up training with New World staff for Finance and HR staff. Additional site visits for Utility Billing worked towards planned go-live for this module in October.

Telephone System Project

Here is the current schedule/status:

1. Fire House 1 – completed in May as emergency install due to phone system failure at this site
2. Fire House 3 completed in July as emergency install due to phone system failure at this site
3. Fire HQ – completed 8/5
4. Fire House 2 – completed 8/13
5. Sewer Building on E Hwy 50 and WWTP – completed 8/14/13
6. Library – completed 8/28/13
7. IT & Public Works Compound – completed 9/4 – 9/5/2013
8. Parks – completed 9/25 -9/26/2013
9. City Hall – completed 10/8 – 10/9/2013
10. Public Safety – scheduled for 11/4 – 11/7/2013

The new phones are working well. We won't have 100 percent of functionality or direct dial numbers available for existing installed sites until after Public Safety is completed.

SCADA Sewer Application Server Virtual Backup

Completed installation and configuring an offsite virtual server to use as a backup for this location so that we may keep the WWTP online while we do a complete operating system and SCADA software reinstallation. This is necessary to address memory leak issue. Online testing of the backup server and reinstallation of the OS and software on the production server is scheduled for October.

Mobile Device Management

Staff performed work to get remaining cell devices connected to City email and network systems fully implemented in our Tangoe Mobile Device Management System. Completion of this work is a necessary component not only for increased email and network security but also to enable changes that are planned for wireless access point management.

Sonicwall VPN Testing

During September we received and installed a test Sonicwall VPN appliance. Testing has gone very well. With pending November software license and maintenance renewal coming for Netmotion we have been putting the Sonicwall platform through several levels of testing from various existing work platforms as well as for remote access by Windows, Android, iOS, Macintosh and other OS appliances such as Google Chromebook. This would allow expanded remote and work from home or other types of

access we haven't been able to easily accommodate in the past and getting us a step closer from being able to accommodate a BYOD (Bring Your Own Device) capable environment. We have also had testing performed on this platform for consultant access with good reviews. We have determined that we can get significantly more capabilities out of the Sonicwall system than we have been able to get with our existing Cisco and Netmotion virtual private network platforms combined. The cost to purchase this appliance is about 1/3rd less than what we would need to pay for Netmotion software renewal and license expansion budgeted for the current fiscal year. This is for 100 concurrent use license capacity as compared to 100 named licenses.

Control System Work Related to Waste Water Treatment Plant Construction

September saw connection to the control system for oxidation ditch sensors, blower building variable frequency drives (VFDs) and complete alarm testing and general troubleshooting. Additional work remains on getting generator monitoring setup for the main generator and the generator at the terminal lift station.

Disaster Recovery Backup Server

Work continues with configuration of the disaster recovery backup server to prepare it for placement at its planned offsite location. In September staff continued the process of getting backups completed at the Public Safety data center to the disaster recovery server. The disaster recovery backup server deduplicates all of the individual server and file storage backups from the two data centers to minimize offsite storage requirements. The last step is for this to be relocated to its offsite location. Scheduling of the move is pending.

Radio Upgrades

We upgraded the radio link from the State Street Water Tower to the WWTP to a Ubiquiti Air Fiber connection, increasing the bandwidth from 200 Mbps to nearly 1.5 Gbps to accommodate increased traffic from the two data centers for the pending move of the Disaster Recovery Server. Latency to the WWTP SCADA Application Server from the Solarwinds Network Monitoring System has dropped from 5 – 8 milliseconds to approximately 0.5 milliseconds – a pretty impressive mark. The existing 5.4 GHz radio link has been kept in place and is being setup for automated redundant failover – an important goal for both disaster recovery backups and industrial control and alarm systems. Additionally, a radio link was installed from the WWTP to the Police Shooting Range to accommodate the new security camera added at the range. A wireless access point was also installed to provide network connectivity to the classroom at the range.

Cameras

During September a security camera at the Police Shooting Range.

Ambulance Data Connectivity

We installed new InMotion router for 3 ambulances to enable better connectivity between cardiac monitors, laptops, and other sensors with the hospitals and City data network.

Geographic Information Systems Data Models

Staff has been looking at the database architecture of our GIS system. We have begun to analyze what it would take to migrate portions of our data model to the current Esri Local Government Data Model. This would make it easier to tie our data in with out of the box web and mobile applications currently available from Esri. However, our current data model was in place before the new standards were available and migration can pose several issues so we are taking our time on this review.

GIS Demonstration for St. Clair County and Belleville

GIS staff met with staff from some of our neighbors in the area and demonstrated our capabilities and systems. We also discussed plans for the future and ways that we can perhaps work more closely together or help one another in the future.

LiDAR Software Training

Chad Quinn completed a nearly week long training session put on by LP 360, our software vendor for the package we use in conjunction with our LiDAR data. He learned a significant amount of usable skills. One interesting note is that the company was interested to hear about how we are using their software to perform line of sight analysis in advance of placing radio equipment – apparently we've taken use of their software in a way they hadn't quite anticipated and we were able to give them some input that will help advance the software in this regard.

Cityworks Upgrade

We completed testing of Cityworks 2013 Corporate Release version of software to enable upgrades to occur in October.

Streamlined Alerting in Solarwinds

Solarwinds is our main network monitoring platform on the regular business network side of the house. We use it to keep track of status of network appliances, radios, firewalls, routers, switches, traffic flow, servers, important software platforms, databases, virtual machines and other important network infrastructure items. It is one of the main reasons we have been able to boast 99.9 percent network uptime on a fairly sophisticated network. However, we also experience a significant amount of alarms and network warnings that require an increasing amount of staff time to wade through and prioritize. During September significant progress was made grouping network assets to help organize and reduce alarms and warning messages.

Screen Shot of Solarwinds Front Screen (item shown down is actually a planned outage 😊)

solarwinds

HOME NETWORK APPLICATIONS VIRTUALIZATION

Summary Admin Alerts Events Groups Manage Nodes Message Center Reports Search Nodes Top 10 Logout

2 product update(s) are available > More Details | Dismiss Message

Orion Summary Home

Search Nodes

Find: Search By:

Examples: Cisco*, 10.15.*, W7nodes, Server*, *SolarWinds Net

Nodes with Problems

NODE	DESCRIPTION	CURRENT RESPONSE TIME	PERCENT LOSS
OPWATERTREAT	Node is Down Overall Hardware Status: Overall Hardware Status has state: Could Not Post	No Response	100 %

All Nodes

GROUPED BY VENDOR, STATUS

- Allen-Bradley Company, Inc.
- American Power Conversion Corp.
- Cisco
- Dell Computer Corporation
- Frogfoot Networks
- Merlin Gerin
- Microwave Data Systems
- net-snmp
- PipingHot Networks Limited
- Pronet GmbH
- Ruckus Wireless Inc
- Unknown
- Vyatta
- Windows

Map

Core Network Map

Visualize your environment with customized maps.
To create or edit your own map go to Start > All Programs > SolarWinds > Network Atlas on your SolarWinds server or > Download Network Atlas

Treasurer's Report

Cash Reserve Balance of Major Funds

General Fund			
Cash on Hand as of 9/30/13	\$ 12,518,424.39	Cash on Hand as of 9/30/13	\$ 4,195,677.93
3 mos. operating reserve	\$ (3,955,779.24)	3 mos. operating reserve	\$ (2,532,745.00)
10% emergency reserve	\$ (1,251,842.44)	10% emergency reserve	\$ (419,567.79)
Obligated 2014 budget: Phone Upgrade	\$ (125,000.00)	Obligated 2014 budget:	\$ (260,815.00)
Fire station complex	\$ (3,000,000.00)	Transfer from reserves	\$ 982,550.14
	<u>\$ 4,185,802.71</u>		
Ambulance			
Cash on Hand as of 9/30/13	\$ 4,316,195.89	Cash on Hand as of 9/30/13	\$ 3,202,475.23
3 mos. operating reserve	\$ (899,760.00)	3 mos. operating reserve	\$ (1,383,010.00)
10% emergency reserve	\$ (431,619.59)	10% emergency reserve	\$ (320,247.52)
Obligated 2014 budget: Fire Station complex	\$ (1,200,000.00)	Obligated 2014 budget:	\$ (150,840.00)
Obligated 2014 budget: Venita property	\$ (125,000.00)	Transfer from reserves	\$ 1,348,377.71
Obligated 2015 budget: Venita property	\$ (125,500.00)		
	<u>\$ 1,534,316.30</u>		
Fire			
Cash on Hand as of 9/30/13	\$ 3,194,999.00	Cash on Hand as of 9/30/13	\$ 1,638,896.75
3 mos. operating reserve	\$ (826,910.00)	3 mos. operating reserve	\$ (266,506.25)
10% emergency reserve	\$ (319,499.90)	10% emergency reserve	\$ (163,889.68)
Obligated 2014 budget: Transfer from reserves	\$ (344,390.00)	Obligated 2014 budget:	\$ (20,000.00)
	<u>\$ 1,704,199.10</u>	Transfer from reserves	\$ 1,188,500.83
Parks			
Cash on Hand as of 9/30/13	\$ 1,600,291.84	Cash on Hand as of 9/30/13	\$ 848,907.03
3 mos. operating reserve	\$ (852,873.75)	3 mos. operating reserve	\$ (246,141.25)
10% emergency reserve	\$ (160,029.18)	10% emergency reserve	\$ (84,890.70)
Obligated 2014 budget: Transfer from reserves	\$ (61,439.00)	Obligated 2014 budget:	\$ (294,215.00)
	<u>\$ 525,949.91</u>	Transfer from reserves	\$ 223,660.08
Prop S			
Cash on Hand as of 9/30/13	\$ 2,182,714.73	Cash on Hand as of 8/31/13	\$ 208,386.89
3 mos. operating reserve	\$ (423,375.00)	3 mos. operating reserve	\$ (7,525.00)
10% emergency reserve	\$ (218,271.47)	10% emergency reserve	\$ (20,838.69)
Transfer from reserves	\$ (209,595.00)	Transfer from reserves	\$ 180,023.20
	<u>\$ 1,331,473.26</u>		
MFT			
Cash on Hand as of 9/30/13	\$ 4,210,364.62	Cash on Hand as of 9/30/13	\$ 605,508.26
3 mos. operating reserve	\$ (860,000.00)	3 mos. operating reserve	\$ (31,275.00)
10% emergency reserve	\$ (421,036.46)	10% emergency reserve	\$ (60,550.83)
Obligated 2014 budget: Transfer from reserves	\$ (2,737,600.00)	Obligated 2014 budget:	\$ (59,500.00)
	<u>\$ 191,728.16</u>	Obligated 2015 budget:	\$ (59,500.00)
		Transfer from reserves	\$ 394,682.43

Note: 3 mos operating reserve calculated by using FY 2014 budget