

**SUPPLEMENTAL AGENDA**

**REGULAR CITY COUNCIL MEETING**

December 9, 2013

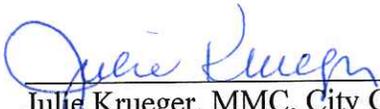
5:30 p.m.

CITY HALL COUNCIL CHAMBER  
313 COURT STREET  
THE DALLES, OREGON

**Item to be Added to the December 9, 2013  
City Council Meeting Listed Below**

12. ACTION ITEMS

- C. Authorization for City Manager to Sign an Agreement With Gorge Networks for Enhancement and Expansion of the City's Public Wi Fi System

  
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Julie Krueger, MMC, City Clerk

**CITY OF THE DALLES**

*"By working together, we will provide services that enhance the vitality of The Dalles"*



## AGENDA STAFF REPORT CITY OF THE DALLES

MEETING DATE	AGENDA LOCATION	AGENDA REPORT #
December 9, 2013	Action Item	

**TO:** Mayor and City Council

**FROM:** Nolan K. Young, City Manager

**DATE:** December 5, 2013

**ISSUE:** Authorization for the City Manager to sign an agreement with Gorge Networks for enhancement and expansion of the City's public Wi Fi system

**BACKGROUND:** We had previously informed the City Council that Google had provided us with a grant of \$75,000 for the purpose of improving and expanding the current public Wi Fi system. Our service provider for the system is Gorge Networks. After soliciting information from the Council we identified expansion to the following areas, as well as system enhancement:

- Kelly Overlook
- Civic Auditorium (inside)
- Quinton Street Ballpark
- Sixth Street Corridor East end and West end

Attached is the proposal we received from Gorge Networks, in the amount of \$86,048 which includes QLife connections with the exception of additional \$14,360 needed for the QLife connection at the Sixth Street west end corridor. Google was able to fund an additional \$11,048 to help meet the initial bid. The additional \$14,360 needed for the final QLife connection will be requested from the QLife board at their meeting on December 12. If the QLife board is unable to provide those funds we will reduce the Sixth Street corridor west end project, to meet the funds available.

We also had the provider look at potentially expanding the system to the Fort Dalles

Museum, it was determined that the expense of extending fiber to this area made it cost prohibitive.

**BUDGET IMPLICATIONS:** Google and QLife funds will meet cost of the capital project. Google initially paid costs of operation/maintenance of the system for a three year period. With expansion of the system and increase bandwidth to meet usage need we will expend those funds by the end of this fiscal year. We will be asking QLife to pay the annual fees of \$11,950 each year starting in FY 2014-15.

**COUNCIL ALTERNATIVES:**

1. Authorize the City Manager to proceed with signing of the contracts for expansion of the public Wi Fi system as outlined.
2. Recommend amendments to the contract with Gorge Networks and direct the City Manager to proceed.
3. Postpone decision on this item until the QLife board has met on December 12.

## City of The Dalles WiFi Project Expansion Phase 4

Proposal Date: November 19, 2013

Service Description: Expansion of The City of The Dalles Public WiFi system.

Service Locations:

- Overlook Point, 6<sup>th</sup> Street Corridor, Quinton Street Ball Field
- Civic Auditorium (indoor application)
- Additional coverage for existing network

### Upgrade Plan: Points of Note

- 1) **Improvements to existing coverage area** – Improvement to the existing coverage area will be accommodated by adding two additional outdoor APs and two indoor APs. We will also be upgrading some select radios with the newer model 7782 units. The units that are replaced in the existing infrastructure will be repurposed to less demanding parts of the network.
- 2) **Increased coverage area** – Expansion of the network to Overlook Point, 6<sup>th</sup> Street Corridor, Quinton Street Ball Field will be accomplished by splicing into Qlife where appropriate and adding a total of 10 outdoor APs. This proposal includes the budget for the newer model AP (7782) which we have allocated an additional \$500/ea. in price. We have not received final word from the manufacturer but we have been told that the price increase is between \$400 and \$700. We will adjust the actual cost increase up or down from the \$500 allocated, once we get a firm number from Rukus. These new units will be used in the most appropriate area and not necessarily in the new coverage areas. Any of the existing 7762 units that get replaced with a new 7782 will be repurposed to a more appropriate (less demanding) location. The spec sheet for the new 7782 is attached to this proposal.
- 3) **Establishment of product lifecycle plan** – as the manufacturer releases newer, improved APs to their product line; we would like to phase in these units as part of an ongoing system lifecycle/upgrade plan. Replacing 10-15 of the older units in the system each year makes for a smooth financial plan rather than replacing all units at a point in time during one year. With the upgrade this year – no additional spare APs will result even though we will be phasing in the newer models. In subsequent years, this is a philosophy that we should take into consideration.
- 4) **Budget** - We realize that this proposal is over the \$75k target budget. There are a few items that will drive the actual cost up or down. Once we know the firm cost of the Qlife extensions/splices, the actual cost increase in the 7782 APs, and we determine if all APs in the plan are needed, we will know actual costs. Our proposal is to place the 6<sup>th</sup> Street expansion as the lowest priority and once we determine how much is left in the budget, we can scope back that expansion to meet our financial goal.

**Monthly Services:**

QTY	Item	Monthly Total
20	Additional Support Fees - \$50.00/AP/Year	\$83.33

**\*Non Recurring One-Time Charges:**

Description	Total
Overlook Point	\$8,100.00
6 <sup>th</sup> Street Corridor-West End	\$32,328.05
6 <sup>th</sup> Street Corridor-East End	\$11,050.00
Quinton Street Ball Field	\$9,290.00
Additional Coverage	\$12,000.00
Civic Auditorium	\$10,940.00
Project Engineering Cost (12 Hours Engineering)	\$2,340.00
<b>Total Non-Recurring Cost</b>	<b>\$86,048.05</b>

*14,360*  
*+450*  
*100,858*

\*Pricing does not reflect the overall cost for each project location. Unknown factors include Q-Life installation costs, billboard installation and building access.

## Overlook Point

This location will be fed from Q-Life fiber from Sorosis Park, covered by 2 AP's.



Qty	Manuf.	Manufacturer Part #	Description	Unit Cost	Ext. Cost	Group Total
<b>Access Points</b>						
2	Ruckus	901-7782-US01 908-7782-1002	ZoneFlex 7782 Outdoor Wireless Access Point w/3yr support	\$ 2,800.00	\$ 5,600.00	
					<b>Total AP</b>	<b>\$ 5,600.00</b>
<b>AP Installation</b>						
2	Mars	MNT-23	Cobra Light - Antenna Mounting Bracket	\$ 25.00	\$ 50.00	
2		Labor	Cobra Light - Electrical Install Labor (PUD)	\$ 200.00	\$ 400.00	
2	FPOLC	FP-287	Cobra Light - POE DC Photo Eye Plug-in	\$ 325.00	\$ 650.00	
2		Labor	Cobra AP Installation	\$ 200.00	\$ 400.00	
					<b>Total AP Install</b>	<b>\$ 1,500.00</b>
<b>Gorge Networks Labor</b>						
2		Labor	Installation Labor	\$ 500.00	\$ 1,000.00	
					<b>Total Gorge Net Labor</b>	<b>\$ 1,000.00</b>
<b>Overlook Point area project cost including 3 year maintenance</b>						<b>\$ 8,100.00</b>

## Quinton Street Ball Field

This location would be fed by Q-Life fiber at MCMC and be covered by installing 2 AP's.



Qty	Manuf.	Manufacturer Part #	Description	Unit Cost	Ext. Cost	Group Total
<b>Access Points</b>						
2*	Ruckus	901-7782-US01 908-7782-1002	ZoneFlex 7782 Outdoor Wireless Access Point w/3yr support	\$ 2,800.00	\$ 5,600.00	
					<b>Total AP</b>	<b>\$ 5,600.00</b>
<b>AP Installation</b>						
1	Hire	Labor	Electrical Work (Higher Electric)	\$ 500.00	\$ 500.00	
					<b>Total AP Install</b>	<b>\$ 500.00</b>
<b>Gorge Networks Labor</b>						
2*		Labor	Installation Labor	\$ 500.00	\$ 1,000.00	
					<b>Total Gorge Net Labor</b>	<b>\$ 1,000.00</b>
<b>Connection to Q-Life Network</b>						
1	Q-Life	Fiber Splice	Connection to Q-Life Network <b>(Billed by Q-Life)</b>			<b>TBD</b>
1	Cisco	IE3000-4TC	Rugged Ethernet Switch with Rugged Optics and patch cable	\$ 2,190.00	\$ 2,190.00	
					<b>Total Network (Gorge Net)</b>	<b>\$ 2,190.00</b>

			Quinton Street area project cost including 3 year maintenance	\$ 9,290.00
			Quinton Street area project cost (Gorge Net + Q-Life)	TBD

\*MCMC building approval required.

\*May use three Access Points if coverage area insufficient.

## West 6<sup>th</sup> Street Corridor-West End

This location would be fed from Q-Life fiber and be covered by installing 5 AP's.



Qty	Manuf.	Manufacturer Part #	Description	Unit Cost	Ext. Cost	Group Total
<b>Access Points</b>						
5	Ruckus	901-7782-US51 908-7782-1002	ZoneFlex 7782-N Outdoor Wireless Access Point w/3yr support	\$ 2,800.00	\$ 14,000.00	
					<b>Total AP</b>	<b>\$ 14,000.00</b>
<b>AP Installation</b>						



## West 6<sup>th</sup> Street Corridor-East End

This location would be fed from a new Q-Life connection at Bob Stone Auto, and be covered by installing 2 AP's.



Qty	Manuf.	Manufacturer Part #	Description	Unit Cost	Ext. Cost	Group Total
<b>Access Points</b>						
2	Ruckus	901-7782-US51 908-7782-1002	ZoneFlex 7782-N Outdoor Wireless Access Point w/3yr support	\$ 2,800.00	\$ 5,600.00	
					<b>Total AP</b>	<b>\$ 5,600.00</b>
<b>AP Installation</b>						
1	L-Com		Outdoor NEMA Enclosure	\$ 560.00	\$ 560.00	
2	Ruckus	911-1212-DP01	12dBi 5GHz Backhaul Antenna	\$ 350.00	\$ 700.00	
2	Hire	Labor	Electrical Work (Hire Electric)	\$ 500.00	\$ 1,000.00	
					<b>Total AP Install</b>	<b>\$ 2,260.00</b>
<b>Gorge Networks Labor</b>						
2		Labor	Install Labor	\$ 500.00	\$ 1,000.00	
					<b>Total Gorge Net Labor</b>	<b>\$ 1,000.00</b>

Connection to Q-Life Network						
1	Q-Life	Fiber Splice	Connection to Q-Life Network (Billed by Q-Life)	TBD	TBD	14,360
1	Cisco	IE3000-4TC	Rugged Ethernet Switch with Rugged Optics and patch cable	\$ 2,190.00	\$ 2,190.00	
				Total Network (Gorge Net)		\$ 2,190.00
6 <sup>th</sup> Street-East End area project cost including 3 year maintenance						\$ 11,050.00
6 <sup>th</sup> Street East-End area project cost (Gorge Net + Q-Life)						TBD

\*Bob Stone Auto and Motel 6 building approval required.

## Additional Coverage for Existing Network

Recommended additional AP's based on current network evaluation.

Qty	Manuf.	Manufacturer Part #	Description	Unit Cost	Ext. Cost	Group Total
<b>Possible Access Point Locations</b>						
Discovery Center x2 (indoor)			Marina			
2	Ruckus	901-7982-US00 908-7982-1002	ZoneFlex 7982 Indoor Wireless Access Point	\$ 1,250.00	\$ 2,500.00	
				Total AP		\$ 2,500.00
<b>Habitat for Humanity (Cobra install)</b>						
1	Ruckus	901-7782-US01 908-7782-1002	ZoneFlex 7782 Outdoor Wireless Access Point w/3yr support	\$ 2,800.00	\$ 2,800.00	
				Total AP		\$ 2,800.00
<b>Marina (Cobra install)</b>						
1	Ruckus	901-7782-US01 908-7782-1002	ZoneFlex 7782 Outdoor Wireless Access Point w/3yr support	\$ 2,800.00	\$ 2,800.00	
				Total AP		\$ 2,800.00
<b>AP Installation</b>						
2	Mars	MNT-23	Cobra Light - Antenna Mounting Bracket	\$ 25.00	\$ 50.00	
2	FPOLC	FP-287	Cobra Light - POE DC Photo Eye Plug-in	\$ 325.00	\$ 750.00	
2		Labor	Cobra AP Installation	\$ 200.00	\$ 400.00	
2	Ruckus	911-1212-DP01	12dBi 5GHz Backhaul Antenna	\$ 350.00	\$ 700.00	
				Total AP Install		\$ 1,900.00
<b>Gorge Networks Labor</b>						
4		Labor	Install Labor	\$ 500.00	\$ 2,000.00	
				Total Gorge Net Labor		\$ 2,000.00
Additional Coverage Project cost including 3 year maintenance						\$ 12,000.00

## Civic Auditorium

This location will be fed by Q-Life and requires 5 AP's for the community room, fireside room, ballroom, theatre and lobby.

Qty	Manuf.	Manufacturer Part #	Description	Unit Cost	Ext. Cost	Group Total
<b>Access Points</b>						
5	Ruckus	901-7982-US00 908-7982-1002	ZoneFlex 7982 Indoor Wireless Access Point	\$ 1,250.00	\$ 6,250.00	
					<b>Total AP</b>	<b>\$ 6,250.00</b>
<b>Gorge Networks Labor</b>						
5		Labor	Installation Labor	\$ 500.00	\$ 2,500.00	
					<b>Total Gorge Net Labor</b>	<b>\$ 2,500.00</b>
<b>Connection to Q-Life Network</b>						
1	Cisco	IE3000-4TC	Rugged Ethernet Switch with Rugged Optics and patch cable	\$ 2,190.00	\$ 2,190.00	
					<b>Total Network (Gorge Net)</b>	<b>\$ 2,190.00</b>
<b>Civic Auditorium project cost including 3 year maintenance</b>						<b>\$ 10,940.00</b>