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**Lucas County
Information
Services**

Anita Lopez,
Lucas County Auditor
and
Secretary of the
Data Processing Board

Jason Gears
**Director of Information
Services**
One Government Center
Suite 400
Toledo, OH 43604

419.213.4025 Voice
419.213.4024 Fax

Date: March 31, 2015

To: Lucas County Data Processing Board

From: Jason Gears

Subject: Data Processing Board Request – Redundant Wireless Controller

Lucas County Data Processing Board Members,

Lucas County Information Services is requesting permission to purchase and implement an additional wireless controller to add redundancy to our enterprise wireless system. Funds are secured in Capital Improvement account 4030-1750-C1075.

The total cost of \$20,652.37 is broken down as follows:

MCPc	
Cisco 5508 Wireless Contoller - HA	\$11,600.00
1000Base-T SFP (14)	\$3,207.40
Cisco SmartNet 8x5xNBD	\$2,287.12
AIR-CAP2702I-A-K9	\$635.10
MCPc Professional Services	\$2,922.75
Total	\$20,652.37

MCPc professional services will be billed for actual time and material. We anticipate the total cost to be less due to LCIS's advanced planning and preparation.

Thank you for your consideration,


Jason Gears
Director of Information Services



MCPc Work Request

Wireless LAN Controller Upgrade and Redundancy

Presented To:

Lucas County

Jason Gears

Presented By:

Scott Isaacs

Senior Account Manager

Niladri Datta

Solution Architect

Date Offered:

03/04/2015

Proposal Ref. #

50066319 V. 3

Date Expires

04/24/2015

Quote To:	Bill To:	Ship To:
Lucas County	Lucas County	Lucas County
Jason Gears	Attn: Jason Gears	Attn: Jason Gears
One Government CenterSte 400 Information Services	One Government CenterSte 400 Information Services	One Government CenterSte 400 Information Services
Toledo OH 43604	Toledo OH 43604	Toledo OH 43604
4192134386	4192134386	4192134386
jgears@co.lucas.oh.us	jgears@co.lucas.oh.us	jgears@co.lucas.oh.us

Professional Services and Pricing Summary		
Item	Description	Total Cost
Cisco Wireless Hardware		\$15,442.50
Cisco Smartnet		\$2,287.12
MCPc Services	Services	\$2,922.75
Quote Total		\$20,652.37

Description of requested Professional Services Work:

Lucas County has requested a proposal from MCPc to assist with the setup of a redundant Wireless LAN Controller.

Lucas County currently has a single Cisco 5508 Wireless LAN Controller (WLC) running v7.0x which manages 18 Access Points today. Lucas County is looking to expand the wireless network in the near future and has decided to migrate to a redundant WLC configuration with Stateful Switchover (SSO) redundancy. In order to support HA with SSO, both WLC appliances will need to be Layer 2 adjacent with each other with a Round-Trip Time (RTT) of less than 80ms and minimum of 60Mbps of bandwidth.

In order to provide this functionality, the software on the existing WLC will need to be upgraded and a second HA WLC deployed. Due to lack of support for legacy Access Points, (1) 1230 series Access Point will be replaced with a 2700 series Access Point.

MCPc will be responsible for the following deliverables:

- Attend a kickoff call to schedule project tasks
- Perform remote discovery of the existing 5508 WLC
- Stage the new HA 5508 WLC with vendor recommended software
- Upgrade the primary WLC with vendor recommended software
- Rack and power the HA 5508 WLC
- Integrate both WLCs with LAN using Link Aggregation across all 8 interfaces
- Configure replacement 2700 series Access Point on WLC with same settings as existing 1230 series Access Point
- Work with customer to test WLC failover

Customer will be responsible for the following:

- Attend a kickoff call to schedule project tasks
- Provide racking and power consistent with manufacturer requirements
- All configuration required on LAN switches to support WLC HA requirements
- Physical installation of 2700 series Access Point
- Creation and execution of test plan before and after go-live for baseline and acceptance testingAny configuration or changes to customer wireless devices/endpoints

Invoicing Details:

- Engineering Services to be billed on a Time & Materials basis with the following rates:
 - o Business Hours (Mon - Friday): \$157.50/hr
 - o After Hours and Saturday: \$238.50/hr
 - o Holidays and Sunday: \$315.00/hr
 - o There is a 4 hour minimum on this Proposal
 - o On-site trip charge is \$100 flat rate with expenses billed as actual.
- No Project Management services are included in this proposal but can be added upon request.

MCPc services quoted is an estimated amount based on knowledge of the current environment. Customer will be invoiced based on actual hours consumed for this project

Product Detail

Cisco Wireless Hardware

<u>Item</u>	<u>Item Description</u>	<u>QTY</u>	<u>Price</u>	<u>Extended Price</u>
AIR-CT5508-HA-K9	Cisco 5508 Series Wireless Controller for High Availability	1	\$11,600.00	\$11,600.00
SWC5500K9-76	Cisco Unified Wireless Controller SW Release 7.6	1	\$0.00	\$0.00
AIR-PWR-CORD-NA	AIR Line Cord North America	1	\$0.00	\$0.00
LIC-CT5508-BASE	Base Software License	1	\$0.00	\$0.00
PI-MSE-PRMO-INSRT	Insert Packout - PI-MSE	1	\$0.00	\$0.00
GLC-T=	1000BASE-T SFP	14	\$229.10	\$3,207.40
AIR-CAP2702I-A-K9	802.11ac CAP w/CleanAir; 3x4:3SS; Int Ant; A Reg Domain	1	\$635.10	\$635.10
SWAP2700-CMB-A1-K9	Cisco 2700 Series Combined Unified and Autonomous (xxxxx) SW	1	\$0.00	\$0.00
AIR-AP-T-RAIL-R	Ceiling Grid Clip for Aironet APs - Recessed Mount (Default)	1	\$0.00	\$0.00
AIR-AP-BRACKET-1	802.11n AP Low Profile Mounting Bracket (Default)	1	\$0.00	\$0.00

Cisco Smartnet

<u>Item</u>	<u>Item Description</u>	<u>QTY</u>	<u>Price</u>	<u>Extended Price</u>
CON-SNT-CT5508HA	SMARTNET 8X5XNBD Cisco 5508 Series Wi Ohio State Term contract number 533110-3-21	1 0	\$2,287.12 \$0.00	\$2,287.12 \$0.00

<u>Financing</u>	<u>Term</u>	<u>Estimated Monthly Payment</u>
MCPc Financial Services	36 Months - FMV	\$619.16
<i>Lease Terms & Conditions: The estimated monthly payment is for a 36 month Fair Market Value lease. The proposal is subject to proper credit approval.</i>		

AUTHORIZATION TO PROCEED

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed and represent that the persons whose signatures appear below are duly authorized to execute this Agreement. I have reviewed the information contained in the Work Request and agree to the baseline commitments, Customer Responsibilities, terms, and conditions specified within.

Lucas County	MCPc, Inc.
Name:	Name:
Title:	Title:
Signature:	Signature:
Date:	Date:
Proposal Ref. # 50066319 V. 3	P.O. #

Terms and Conditions

This document is governed by MCPc’s Master Terms and Conditions, found at www.mcp.com/termsandconditions; unless you have a separately negotiated agreement with MCPc which covers this purchase, in which case that agreement will govern.