

CITY OF ONALASKA MEETING NOTICE

COMMITTEE/BOARD: Technology Advisory Committee
TIME OF MEETING: January 26, 2017 (Thursday)
PLACE OF MEETING: City Hall – 415 Main Street (Room 112)
TIME OF MEETING: 6:30 P.M.

Please Note
 If you are unable to attend please contact Diane Oldani Wulf at 780-7007 or by email eap11111@aol.com at least the Monday before the meeting

1. Call to Order and roll call.
2. Approval of minutes from the previous meeting.
3. Public Input (limited to 3 minutes/individual)

Consideration and possible action on the following items:

4. Update on Council Chambers' Audio/Video System
5. Live Streaming update
6. Review and possible action on proposed Inspection software implementation plan
7. Review and possible action on new helpdesk software
8. Review and possible action of use of sinking fund money for server upgrade/replacement project
9. Review and possible action of fiber connections for City Hall, Public Works Facility, and Omni Center.
10. Discussion and possible action on IT Infrastructure Standards and Strategic IT Plan
11. Adjournment

PLEASE TAKE FURTHER NOTICE that members of the Common Council of the City of Onalaska who do not serve on the committee may attend this meeting to gather information about a subject over which they have decision making responsibility.

Therefore, further notice is hereby given that the above meeting may constitute a meeting of the Common Council and is hereby noticed as such, even though it is not contemplated that the Common Council will take any formal action at this meeting.

NOTICES MAILED TO:

<u>Mayor Joe Chilsen</u>	<u>*Pam Goldbeck</u>	
<u>*Ald. Jim Binash – Vice Chair</u>	<u>*Scott Wied</u>	
<u>Ald. Jim Olson</u>	<u>*Tim Bena</u>	
<u>Ald. Jim Bialecki</u>	<u>*Diane Oldani Wulf – Chair</u>	
<u>Ald. Harvey Bertrand</u>	<u>*Richard Vogel</u>	
<u>Ald. Barry Blomquist</u>		
<u>Ald. Bob Muth</u>		
<u>City Attorney</u> <u>Dept Heads</u>		
<u>La Crosse Tribune</u> <u>Charter Com.</u>		
<u>Onalaska Community Life</u>		<u>Omni Center</u>
<u>WKTY WLXR WLAX</u>		<u>Onalaska Public Library</u>
<u>WKBT WXOX FOX</u>		
<small>*Committee Members</small>	<small>** Alternate Member</small>	

Date Notices Mailed and Posted: 1-19-17

In Compliance with the Americans with Disabilities Act of 1990, the City of Onalaska will provide reasonable accommodations to qualified individuals with a disability to ensure equal access to public meetings provided notification is given to the City Clerk within seventy-two (72) hours prior to the public meeting and that the requested accommodation does not create an undue hardship for the City.



CITY OF ONALASKA

PLANNING/ZONING DEPARTMENT

PH: (608) 781-9590

FAX (608) 781-9506

415 MAIN STREET

ONALASKA, WI 54650-2953

<http://www.cityofonalaska.com>

MEMO

Date: 01/04/2017

To: Technology Committee

From: Katie Aspenson

Re: Inspection Department Software/Hardware 2017

As part of the 2017 Fund 207 (Equipment Fund) the Common Council approved \$22,970.00 dollars for the Inspection Department to incorporate a new software system to allow for field data input and new hardware (tablets, etc.).

Below are quotes from three (3) companies that provide software for inspection services:

- **iWorQ: \$7,250.00 (includes a one-time set-up fee of \$2,250.00) (Selected Company)**
 - Annual Fee: \$4,500.00
- MYGOV: \$22,355.00 (includes a one-time set-up fee of \$9,995.00)
 - Annual Fee: \$12,360.00
- WAGsys: \$22,465.00 (includes a one-time set-up fee of \$19,990.00)
 - Annual Fee: \$2,475.00

Below is a summary of quotes needed to complete the project:

- Tablets for Inspectors (6): \$1,400.00 (per)
 - \$8,400.00 (one-time fee)
- JetPacks for Tablets (6) (provide wireless internet in field):
 - \$10/month per month: \$720.00 (annual fee)
- Tyler/Incode upgrade to allow for online payments for Building Permits:
 - \$400.00 (one-time set up fee)
 - \$1,200.00 (annual fee)
- Upgrades to Tyler/Incode to integrate with iWorQ Software:
 - \$5,000.00 (estimate provided by IT Department – one time fee)

Thank you,

Katie Aspenson



tthompson@iworq.com
 (888) 655-1259 ext 200

Onalaska	Quote creation: 1/20/2017
415 Main Street Onalaska WI 54650 Onalaska Onalaska, WI 54650	Prepared by: Troy Thompson

1. QUOTE

Onalaska- hereafter known as “Customer”, enters into the following Service Agreement with iWorQ Systems, “iWorQ”, headquartered in Logan, UT. Customer will pay an annual fee for the services and a one-time setup fee detailed below:

Population: 15,701

Community Development Applications and Services	Package Price	Billing
Community Development Package - Available on any computer, tablet, or mobile device using Chrome browser - Code enforcement with OpenStreetMap - Permit Management with OpenStreetMap - Quarterly parcel upload - Contractor portal - Up to 25 custom forms/permits/letters	\$4,500.00	Annual
ANNUAL TOTAL	\$4,500.00	

Set up and data conversion	\$2,250.00	Once
Grand total due	\$6,750.00	

1.1. Notes

- 1- Invoices for amount will be sent out 2 weeks after signature. Terms of the invoicing is Net 30 days.
- 2- Invoices may be prorated upon customer request.
- 3- This quote is provided at the customer’s request and is good for 60 days.
- 4- This quote cannot be disclosed or used to compete with other companies.





thompson@iworq.com
(888) 655-1259 ext 200

2. ADDITIONAL SERVICES

iWorQ provides additional applications and services that can be purchased as part of the Community Development solution. These can be added to the customer's annual cost, upon request. The services listed below may already be included in the quote in Section 1.

iWorQ Citizen Engagement - Drive citizen satisfaction, streamline communication between citizens and city/county leadership, and reduce overhead costs with a self-service public portal and a mobile application for Android and iOS.	Price based on Population	Annual
Licensing – track business, animal, liquor, rental, and other license types. Includes customized automated reminder letters and online renewal.	Price based on Population	Annual
Premium Data Package – 25 MB file upload size and 100 GB total storage	\$500	Annual
Plans Review and Annotation – Requires premium data package to use. Draw and annotate on plans; save data in layers on plans; and place watermarks on plans.	\$1000	Annual
Onsite Backup – iWorQ will send a *.BAK on a scheduled basis to an FTP server maintained by the customer.	\$500	Annual
Monthly Parcel Update – iWorQ will import an electronic file on a scheduled basis from a file stored on an FTP server maintained by the Customer.	\$500	Annual
Interactive Voice Response (IVR) – used by contractors to schedule inspections via telephone.	\$1000	Annual
iTransact Card Processing – setup merchant account and gateway, so card payments can be received/recorded in iWorQ. Includes public portal and up to 5 customized forms/links on customer website for citizens and contractors to submit permit requests, license requests, and make payments.	\$500	Annual
Additional letters/forms/permits	\$100 each	Annual

A project quote must be requested for any custom development outside of iWorQ existing features and functions. Project timelines, scope, and cost vary depending upon the request.

3. GUIDELINES

3.1 Getting started

iWorQ will assign an account manager to your account to begin the setup and training process upon contract signature.

Send the signed service agreement to iWorQ Systems:





tthompson@iworq.com
(888) 655-1259 ext 200

Email: tthompson@iworq.com
Fax: 1 (866) 379-3243

Mailing address:
PO Box 3784
Logan, UT 84323

Physical address:
1125 W. 400. N. Suite 102
Logan, UT 84321

3.2 Billing information

iWorQ will invoice Customer on an annual basis. Customer reserves the right to cancel service at any time by providing iWorQ a 30-day written notice.

3.3 Data conversion

As part of the project set up, iWorQ provides a data conversion service. This service consists of importing data, sent by the Customer, in an electronic (relational database) format. iWorQ provides contact information and an upload site where the electronic data can be sent. Additional costs apply for data that does not meet the criteria listed above.

4. SERVICES and SUPPORT

4.1 Data ownership

All customer data remains the property of the customer. Customer can request data electronically or on disk, upon cancellation of Service Agreement.

4.2 FREE training

iWorQ provides FREE training and support. iWorQ provides webinars, phone support, written manuals, web videos, documentation and help files. Training is available to any Customer with a login.

4.3 FREE updates

All updates, bug fixes, and upgrades are FREE to the Customer. iWorQ is a web-based application. Customer only needs to login to get any updates to the applications.

4.4 FREE support

Customer support and training are FREE and available from 8:00 A.M. to 5:00 p.m. Mountain Standard Time.

4.5 FREE data back up

iWorQ does back-ups twice weekly and offsite once weekly.





tthompson@iworq.com
(888) 655-1259 ext 200

4.6 Proprietary letters/forms

Letters and forms, including permits, certificates, or other documents must be owned by the customer and have a clear copyright.

4.7 Data upload and storage limits

Standard data plan includes uploads of up to 3 MB per file and 10 GB total storage. iWorQ offers a premium data plan available for an additional annual cost.

5. SET-UP & BILLING INFORMATION

5.1 Implementation information

Primary Contact(s) _____

Phone _____ Cell _____ Email _____

5.2 Billing information

Billing Contact _____ Phone _____ Cell _____

Email _____ Prefer to receive invoice by email? Yes No

Billing Address _____

City _____ State _____ Zip _____

PO# _____ (if required) Tax exempt ID# _____

6. SIGNATURE

Signature of this Agreement is based on the understanding and acknowledgement of the terms and conditions stated within this Service Agreement.

(Phone) (Mobile) (Email)

(Signature) (Print Name & Title) (Date)





City of Onalaska

**IT Infrastructure
Standards Document
&
Strategic Five Year Plan**

01/24/2008

Proposed by:



City of Onalaska Technology Advisory Committee
Alderman Tim Miller, Chris Muller-Chair, Andy Garner, James Wine,
Diane Oldani Wulf, Jim Strack

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**City of Onalaska
Standards Document
01/24/2008**

INTRODUCTION:

This document outlines standards to be used by the City of Onalaska for its IT infrastructure. This document contains guidelines and should not be construed to contain nor provide a complete solution. Any specifications provided are for example only.

The main theme found throughout this document is consistency. All servers should have the same OS; all PC/Laptops should have the same OS and Office Products. This provides for easier support, better communications between individuals and departments, reduction in support costs to manage a multiple OS/Product environment. The goal of this document is to provide guidelines which promote a stronger, more efficient, easily supported infrastructure.

The enclosed documents and proposals are designed to provide the City with the BEST solutions at the lowest costs and NOT the CHEAPEST solutions.

This document is designed to be used by the City's internal IT staff to guide the decision making process as it applies to technology. The City's IT Staff may share this information with outside vendors the City employs as a framework for the continuing development of the City Infrastructure.

This guideline was developed in conjunction with the City Department Heads to create a comprehensive plan which will fill the needs of the City for the next five years. This document is considered a living document and will be modified as necessary to account for changes in technology and/or direction of the City's long term plans.

Questions concerning this document should be brought to the attention of the City's internal IT staff and the City's Technology Advisory Committee.

SERVER SPECS:

Hardware:
HP ProLiant Server Platform
2.0 GHZ or Faster P4 or equivalent
2048MB RAM min
Rack Mountable - 1U
Redundant Power Supply
Mirrored OS

Operating System:
Windows Server 2003R2 with SP2 and latest Patches.

All systems should have Anti-Virus Software installed (i.e. Symantec)
All Systems are managed with HP Insight Manager
Active Directory to be used to maintain accounts, security, etc.
Email using MS Exchange

Virtual Servers may be deployed if the need arises. VMWare currently provides a free version of its products that allows up to four virtual servers per physical server.

COMPUTER SPECS:

Hardware:
HP Desktop PC or Laptop
2.0 GHZ or Faster P4 or equivalent
1Gb Ram min
Asset Tags
** Thin Client - See Terminal Servers Below

Operating System:
Windows XP Professional with SP2 and latest Patches.
MS Office (i.e. Office 2003) (IB 6.0)
Anti-Virus Software (i.e. Symantec)
PDF writer (e.g. Primo PDF)

All Systems are installed with a Clean XP install (Not the factory install).
This may be accomplished using UIU (Universal Imaging Utility) and Symantec Ghost.
All systems should have Anti-Virus Software installed (i.e. Symantec).
All systems should be CONSISTENT with the choice of OS/Office Suite products.
*All licensing should be OPEN licensing or higher. OEM licensing should not be an option.

* OPEN licensing provides better pricing for the City as well as the option to move licensed software from one computer to another. The City currently uses OEM licensing. Under OEM licensing if a computer fails and needs to be replaced the City MUST buy new software for the computer. Under OPEN licensing rules the City may move the software from the old computer to a new computer without purchasing new software. OPEN licensing also provides for the downgrading of software to ensure that ALL computer equipment is running the same versions of software.

RELEVANT ITEMS:

SSLVPN - A SSLVPN (Sonic Wall) should be established to provide a secure means to access information on the City's network. Using the SSLVPN model provides for access to the City's network without the use of VPN clients. This makes it possible for employees, City leaders, etc. to check email from any computer with internet access. Different profiles will address the different needs of users. All City computer users will have access to email. Other employees, based upon need may have access to applications, desktops, etc.

SAN (Storage Area Network) - Due to the anticipated growth of information and requirements for long term storage of documents a SAN should be established to house all information for the City. SANs provide for growth independent of servers while maintaining a central data storage platform. A SAN can be partitioned into wedges allowing for greater security and flexibility of data storage. Multiple arrays can be established within a SAN which will provide for greater growth, expansion, and security. *Partitioning SAN arrays makes it possible to use RAID5 for some partitions while using RAID6 or higher for more sensitive information.

*** RAID by definition is Redundant Arrays of Independent Disks is the most common definition of RAID. RAID is an umbrella term for computer data storage schemes that divide and replicate data among multiple hard disk drives. RAID's various designs balance or accentuate two key design goals: increased data reliability and increased I/O (input/output) performance. Without the use of RAID for storage data is stored on a single disk and failure of that disk results in the permanent loss of data. RAID1 is allow cost option that creates a mirror copy of data on a second disk. RAID5 is the standard for most businesses. RAID5 allows the information to be distributed or "striped" across several disks. RAID5 provides the advantage of increasing system performance using multiple drives to store and access information. RAID5 allows for one of the drives to fail with no loss of data. RAID6 and beyond provide tolerance of multiple drive failures without the loss of data however there is a trade off in system performance. See Attachment "F".**

TERMINAL SERVER/CITRIX - To address issues with access times and performance delays while running applications from other buildings within the City's network the establishment of a Terminal Server and/or Terminal Server Farm with load balancing, is recommended. Most applications were not designed to be opened and run over a DSL/T1/broadband connection. Terminal Servers/Citrix was developed to provide high performance with minimal bandwidth. Certain applications should not run over Terminal Servers/Citrix and may require different solutions. Generally, applications that require significant amounts of processor resources and/or memory are poor choices for Terminal Servers/Citrix.

****Terminal Servers may also reduce the need for a desktop PC. Thin Client devices may be used in a Terminal Server environment, with some restrictions, and provide a low cost, minimal maintenance alternative to Desktop PCs or Laptops.**

FIREWALL - A high end firewall is highly recommended to protect the City's network from outside forces. This device is the main barrier between the millions of viruses, hackers, etc. and the sensitive information controlled by the City.

UTM – In conjunction with a Firewall a UTM (Unified Threat Management) device to protect the City from outside probes and attacks is highly recommended. A quality UTM device will pair with the Firewall and provide for a layered protection approach.

EMAIL Cleansing – Email should be cleansed prior to entry into the City's network. MxLogic and Postini are two of the major providers of this service. Email that is cleansed prior to entry into the City's network may reduce the email traffic by 90% or more and reduce the long term storage of data. Under current State law ALL email (SPAM, junk or legitimate) is required to be kept under open records laws. Email Cleansing systems provide a quarantine option that will allow end users to view messages that are blocked from the network and to release any messages that may have been inappropriately filtered out. The quarantine option should be provided judiciously to a minimal number of employees.

EMAIL Archiving – An option to better control and store long term EMAIL is the use of an EMAIL Archiving appliance. Such appliances move email from the network to a separate storage device which provides for faster, easier retrieval of email messages and increased performance of the overall email system. These appliances are designed to comply with SOX, HIPPA and other retention policy mandates.

SCRIPTLOGIC - Products similar to Script Logic will provide the City with an alternative to "Roaming Profiles" and provide users with Drive Mappings and Desktop Icons regardless of the computer the employee uses. Script Logic may also be used to automatically roll out software updates, patches, etc. This tool provides system administrators with the ability to remotely control desktops from a central location.

PRINTERS/COPIERS – Wherever practical replacing individual printers, departmental printers, etc. with a combination of Copier/Printer is desired. Using Copiers in a dual role provides a more cost effective solution for the City. With the exception of Plotters for large mapping documents the use of Inkjet printers should be banned and/or removed due to their inherent high cost of ownership. Color copiers/printers should be used as a cost effective alternative to color inkjet printers. The ability to print files to a PDF document should be standard for all users. The use of widely available free products such as Primo PDF is recommended versus the purchase of Adobe Acrobat to accomplish the goal.

INTRANET – The city should develop an Intranet for applications that are internally facing. Many departments are currently using and developing MS ACCESS databases to track information. Developing these applications using an Intranet will provide more consistency and easier access to these applications. Duplicate information in multiple databases may cause confusion and create a maintenance issue. Centrally developing applications will reduce this problem. A City Employee rolodex is one example of information that may be shared with all departments/employees with the information emanating from a central source.

INTERNET FILTERING – The City should employ an Internet Filtering package such as WebSense or a similar package. This will provide security and control of Internet usage. This will assist the City in avoiding potential problems with inappropriate use of the Internet as well as reduce the bandwidth used at the City for Internet browsing. Due to the increased use of the Internet for business purposes the City should have a redundant provider for Internet bandwidth at City Hall. All remote buildings should be required to route via the City's main Internet

connection for Internet usage. This will provide a more secure, better tracking method with the greatest options for growth and expandability.

BACKUP – Data backup technology continues to evolve rapidly with a wide variety of options available depending on the circumstances. Individual servers should not have individual backup tape drives. Backups should be accomplished daily for all information within the City's network with few exceptions. Special drive letters/folders on the City's Network may be designated as "Do Not Backup" segments. This includes information that is generally and readily available from outside sources.

With the assumption of a SAN in place at the City the use of a Tape Library using LTO drives will provide the City with a standard solution that is expandable and dependable. Under this scenario the tape library of LTO drives would be moved to an outside bank vault weekly. This would be the MINIMUM backup practice for the City.

Another option would be for the City to use a tier approach with its backup. The City would backup its information to a "vault" consisting of a server and disk drives. This "vault" would then be copied to a tape library. This provides an extra tier of protection against the tapes being destroyed or unusable. This option provides for document restoration without the use of the tape library.

An option based on newer technology would have all data backups occurring without the use of tapes and/or in-house solutions. Backups would be stored off-site using one of several companies that specialize in off-site backup solutions. Data stored at these facilities should be encrypted with minimal access to provide data integrity.

Regardless of the option selected by the City, weekly testing of the backup systems and restore options should be mandatory.

Disaster Recovery – In conjunction with Data Backup plans, a Disaster Recovery plan should be implemented. Disaster Recovery can be discussed in two basic concepts; Business Continuity and Data Integrity. The creation of a Disaster Recovery plan employs the use of template documents that cover everything from initial business impact analysis (known as BIA) through return to business as usual (BAU) following an incident. In the Business Continuity model the City would resume its daily business operations in a short finite period of time usually measured in hours or within a day or two days as a maximum threshold. This model requires the development of a "mirror site" with equipment and facilities on standby 24/7. There are companies that specialize in providing these facilities and services.

The Data Integrity model assumes that if the City's data is safe, the City can setup a new facility in a reasonable period of time (one to two weeks). This option is far less expensive and providing that the City uses standard equipment and best practices is easily and readily accomplished. This type of plan is IT centric and it's a good starting point in the Disaster Recovery process.

Regardless of the option used the Disaster Recovery site which holds either the equipment or data must be a minimum of 30 miles from the City of Onalaska. Most Data Recovery/Storage companies will provide redundant facilities located in multiple locations.

HVAC – The current HVAC system should be upgraded to provide access to the system from outside the buildings. This will allow the vendor to provide better service as well as the opportunity for the City's building maintenance staff to resolve issues without the need to be on the premises. A short term solution would be to setup and RDP session via the SSLVPN portal. The shop does use the same HVAC vendor as the City hall building. This may cause some issues in the future.

TELEPHONY – The City should address the replacement of its phone system to leverage the advantages of IP Telephony. Connecting all buildings with extensions via IP and creating an IP Telephony infrastructure will reduce the number of local trunk lines currently in place at the different locations. IP Telephony will also reduce the amount of wiring necessary for computer/telephone needs lowering costs for future building enhancements/construction.

To reduce the need for services from outside vendors the city should wire its telephony system/cat 5 cabling in a patch panel format which allows the City to easily move phones from one area to another.

To improve efficiencies throughout the City's operations, the addition of Blackberrys and the addition of a Blackberry Server should be considered. In conjunction with an IP Telephony system this will aid employees who spend the majority of their day in the field to answer email, receive phone calls and handle requests in a time effective, cost effective manner.

NAMING CONVENTIONS:

Locations: All office locations are given a 3 character designation that represents the location Name at that location. Some exceptions would be HQ for City Hall. Once a name has been assigned, that name is used when naming things in use at that location like printers, switches, routers etc.

Examples: SHP for the City Shop, or OMN for the Omni Center, AQU for the Aquatic Center, etc.

Printers: LLL-MMMMMM-Fi where LLL is the location code, MMMMMM is the Model of Printer, F is optional for the Floor# if relevant, and i is the letter b,c,d,etc. and is optional for an Increment if there are more than one of the same model printer on the same floor at the same location. There should be no spaces in these names.

Examples: OMN-D5m415 is a Laser printer at the Omni Center, HQ-HP4000-B is an HP4000 in the Basement at City Hall, HQ-HP4050-1b is the second HP4050 (there are 2) on the First Floor at City Hall.

Routers/Firewalls/Switches: Follow the LLL-MMMMMM-Fi (Location-Model-Floor-increment) similar to the printers. Exceptions would sometimes eliminate the dashes like in the case of most firewalls.

Examples: HQ-2626P-B is an HP Procurve 2626POE switch in the Basement of City Hall. SHP-2620XM is the Cisco 2620XM Router at the City Shop Maintenance location.

Servers: Use LLL-SRV# Where LLL is the Location code and # is the server number. Exceptions would be in some cases there a server has a VERY specific role then the SRV# is replaced by the role.

Examples: SHP-SRV1 is the first server at the City Shop Maintenance location. HQ-SRV3 is the third server at City Hall. Exception example - are main accounting servers (i.e. Govern is called HQ-GOVERN).

Workstations: All workstations should be named the same as their Asset Tag#. Exceptions would be workstations that have a server like role and are named LLL-Role where LLL is the location and Role is the function of the workstation.

Examples: Asset Tags are 6 Character names starting with a letter followed by 5 numbers (A12345)

Usernames: Usernames are created using the first initial and the last name. If there is a duplicate then first initial, middle initial, then last name are used. An alternative would be to use the first name, underscore, last name (John Public is john_public). All users' names should be in lower case.

Group names: Group names follow several rules. There are different types of groups and they each follow slightly different conventions.

Shared Folder Security Groups - A Group that represents a folder in the "Shared" drive of a server at a specific Location. The convention is LLL-SHR-NNNNNN where LLL is the location code, and NNNNNN is the name of the folder on the Shared Drive.

On some occasions there is a group with the same name but has a (Read Only) suffix. These groups represent the same folder but with "read only" rights.

Examples: A Folder called Administration on City Hall's Shared drive would have a security group associated with it called HQ-SHR-Administration, a folder called Engineering Plans on the HQ Server would have one called HQ-SHR-Engineering Plans, and one called HQ-SHR-Engineering Plans (Read Only) for the users who need only read access.

Application Security Groups – These groups represent the security to run a particular application. The convention is LLL-APP-NNNNNN where LLL is the location code, and NNNNNN is the name of the Application.

Examples: The Group "HQ-APP-Govern" is the group with Rights to run the Application GOVERN

Web Application Security Groups – These groups represent the security to run a particular application. The convention is WEB-APP-NNNNNN where NNNNNN is the name of the Web Application.

Examples: The Group "WEB-APP-Payroll" is the group with Rights to run the Web Application Payroll Time Card Entry.

Application Install Groups – This is a group that represents an Application Package that gets installed to all users within that group. The convention is APP-INST-NNNNNN where NNNNNN is the name of the Application Package.

Examples: The Group "APP-INST-ARC View Explorer" is used to control who get the "ARC View" package installed on their pc.

Distribution List Groups – These groups are used for E-Mail routing. The convention is DL-NNNNNN where NNNNNN is the name of the E-Mail Group.

Examples: The Group "DL - City Hall Office Employees" is used to represent all users at City Hall Location, "DL - Police" represents all the people that are associated with the police Department.

E-Mail Domain Groups – This group is used to determine which E-Mail domain is the users Primary e-mail Domain for e-mail addressing. The convention is EmailNNNNNN where NNNNNN is the name of the E-Mail Domain.

Examples: EmailDiscoverOnalaska is used to set "@discoveronalaska.com" as the users primary e-mail address as user policies in exchange.

Public Folder Security Groups – These groups represent the security to access a particular Public Folder. The convention is PUB-FLD-NNNNNN - SSSSS (Security) where NNNNNN is the name of the Public Folder, and SSSSS is a subfolder if applicable. In the optional Security section I add "Editor" or "Reviewer" because often there are two groups one with "Editor" access and one with just "Reviewer" (read) access.

Examples: "PUB-FLD-ParkRec - Calendar (Editor)" would be the group that has Editor rights to the Park and Rec Calendar Public Folder.

IP ADDRESSING STANDARDS

Large Offices – 10.LLL.DDD.xxx where LLL is the Location IP Scheme, DDD is the device, and xxx is the node.

Devices are as follows:

- 1 – Servers
- 2 – Routers / Firewalls
- 3 – Printers
- 4 – Workstation (DHCP)
- 5 – Switches and other Misc Devices that need a Static Address.
- 6 – Security devices

Small Offices (Offices with No Server) – 10.250.LLL.xxx where LLL is the Location IP Scheme, and xxx is the node.

The Router is on 10.250.LLL.1

The DHCP Scope is set for 10.250.LLL.100-131

Other statically assigned IPs (Printers etc..) start at 10.250.LLL.2 and up

SHARED FOLDER STANDARDS

Create a folder called "Datafiles" on the data drive.

Assign the following NTFS Rights: Domain Admins – Full Control, remove all others and do not allow rights above to propagate.

Create a folder called "Shared" underneath DataFiles.

Share that folder as "Shared" with Everyone having full control share permissions.

Assign the following NTFS rights: Domain Admins – Full Control (should be inherited), Domain Users – List

Create a folder called "Users" underneath DataFiles.

Assign the following NTFS rights: Domain Admins – Full Control should be inherited.

Create individual user folders under the "Users" folder using the user's login name as the folder name.

Share each of these folders as "username\$" where username is the users login name, with Everyone having full control share permissions.

Assign the following NTFS rights: Domain Admins – Full Control should be inherited, Specific User – Write Create (everything except Full Control)

Other Locations that need to be Shared for applications etc.

Create an application specific sharename with Everyone having full control share permissions.

Assign the following NTFS rights: Domain Admins – Full Control, Specific.Group – Write Create (everything except Full Control) or assigned as necessary, remove all others and do not allow rights above to propagate.

PROPOSALS:

The following is a summary of costs to implement the aforementioned recommendations:

<u>Item</u>	<u>Cost*</u>	
<u>Attachment</u>		
1 Firewall/UTM/Internet Filtering #	9,500.00	a
1 Data Center Upgrade	65,000.00	b
1 Backup	7,000.00	c
1 Switches	20,000.00	d
1 SSLVPN Portal ✓	2,500.00	e
1 Terminal Server	5,000.00	f
IP Telephony/Routers	100,000.00	g
Desktop/Laptop Upgrades	3,800.00	h
Laptop Upgrades (Police Department)	24,000.00 (6 @ 4,000)	i
OS/MS Applications Upgrades	16,000.00	j
Disaster Recovery	10,000.00 - 300,000.00	k
Copier/Printer combo units	9,665.00	l
Color Copier Options	12,000.00 ea	m
Thin Client Strategy w/Term Serv Farm	25,000.00	n
HVAC Upgrade	2,980.00	o
Blackberry Server	6,000.00	p
Email Archiving System ✓	6,000.00	q
Labor ## <i>ScriptLogic</i>	15,000.00	

- ! Priority Items
- # Reporting services will result in a \$900/mo additional fee
- ## Labor Costs are not included in the individual proposals. Estimated based on \$100/hr
- * All Costs are estimates La
- ** Email Cleansing is currently installed and implemented
Redundant Internet Pipe currently installed
Scriptlogic features (nScnry) is currently part of the contract
- *** VMWare, Intranet (TBD)

Attachments detailing the costs for each item are listed as Attachments a-q.



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Prepared for:
City of Onalaska
1/18/2008

Product	Price Per Unit	Product Qty	Extended Amount
Firewall/Internet Filtering:			
Fortigate 300A includes upgrades and 8x5 support	\$9,418.00	1	\$9,418.00
Fortigate 300A managed and monitored by LockNET	\$900	12	\$10,800
<i>Two options are mentioned above are differentiated between a managed and unmanaged service using the same appliance.</i>			

Attachment "a"



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Prepared for:
City of Onalaska
1/18/2008

Product Price Per Unit Product Qty Extended Amount

Product	Price Per Unit	Product Qty	Extended Amount
Server Room Upgrade:			
Server Options: (Similar servers quoted for HP and Dell)			
HP ProLiant DL380 G5- Rack Server: 4 GB RAM 2 Quad-Core Intel Xeon (4) 146 GB 10K HDD Redundant PS 3 year warranty	\$5,095.50	4	\$22,781.20
Dell Option PowerEdge 2370 4 GB RAM Dual Core AMD Opteron (4) 146GB 10K RPM Hard Drive Redundant PS 3 year warranty	\$5,133.51	4	\$20,534.04
SAN: HP MSA 1510 2U iSCSI SAN redundant controllers (6) 300 GB 15K RPM drives. Expandible to 20 TB. Rack mountable	\$15,358.00	1	\$15,358.00
Cabinet Options: APC rack with 5000watt UPS and KVM \$10K. Will require electrician to wire 220V plug into server room.	\$9,956.91	1	\$9,956.91
Server Operating System and Exchange upgrades:			
Server 2003 R2 Std	\$1,010.00	3	\$3,030.00
Server 2003 Cals - 90	\$28.00	80	\$2,240.00
Exchange 2007	\$932.00	1	\$932.00
Exchange CALS	\$37.00	110	\$4,070.00
The line items mentioned above migrate all server OS to 2003 and upgrade the MS Exchange environment to 2003 or 2007.			\$45,567.15

* DB1 Ram (8) on Server Box
 Licensting of user vs. server cals
 Backup 6704

Attachment "b"



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SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
JQ96918	16557388	1/23/2008

B JEFF PRODEZINSKI
415 MAIN ST

S CITY OF ONALASKA
H 415 MAIN ST

L CITY OF ONALASKA
T ONALASKA, WI 54650-2953

P JEFF PRODEZINSKI
Y ONALASKA, WI 54650-2953
O Contact: JEFF PRODEZINSKI 609-779-6346

Customer Phone# 6087796357

Customer P.O.# JQ96918 QUOTE

ACCOUNT MANAGER	SHIPPING METHOD	TERMS	EXEMPTION CERTIFICATE
BRIAN SIKSMITH 877-325-6328	FEDEX Ground	Request Terms	GOVT-EXEMPT

QTY	ITEM NUMBER	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1	1267565	OVERLAND ARCVault 12 SLOT 1 LTO4 DRV Mfg#: OVE-OV-ARC101013 Contract: WCA SERVICES INCORPORATED	5975.55	5975.55
10	1212261	TKK LTO4 ULTRION4 800/1.6x3 1PK Mfg#: TKK-D2407-LTO4 Contract: WCA SERVICES INCORPORATED	97.75	977.50
		Recommended items for OVERLAND ARCVault 12 SLOT 1 LTO4 DRV		
		1314136 OVERLAND 11MON 7K24X4 OSS U OVN-ERGOLD1U-AV2-11MON 1231.90		
			SUBTOTAL	6953.05
			FREIGHT	.00
			SALES TAX	.00

TOTAL US Currency
6,953.05

BUY WITH CONFIDENCE. CDW IS A FORTUNE 500 COMPANY.

CDW Government, Inc.
230 North Milwaukee Ave.
Vernon Hills, IL 60061
General Phone: 847-371-5000 Fax: 847-419-6200
Account Manager's Direct Fax:

Please remit payment to:
CDW Government, Inc.
75 Romilance Drive
Suite 1515
Chicago, IL 60675-1515

Attachment "c"



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Prepared for:
City of Onalaska
1/18/2008

Product Price Per Unit Product Qty Extended Amount

Product	Price Per Unit	Product Qty	Extended Amount
Backup Options:			
Option 1: Additional SAN for disk to disk back up solution	\$16,356.00	1	\$16,356.00
Option 2: LT04-120 Digi Power Vault w/10tapes	\$5,500.00	1	\$5,500.00
3 year Silver Support 7x24 Next Day Business Onsite			
EXP BU EXEC WIN STO SVR 11D FULL LIC W/ 24X7 S	\$928.65	1	\$928.65
EXP BU EXEC ACT DIR AGT 11D FULL LIC W/ 24X7 S	\$1,162.66	1	\$1,162.66
EXP BU EXEC EXCH AGY 11D FULL LIC W/ 24X7 S	\$1,162.66	1	\$1,162.66
EXP BU EXEC EXCH AGY 11D FULL LIC W/ 24X7 S	\$50.00	1	\$50.00
SYMC BACKUP EXEC 11D WIN SERVERS MEDIA KIT ML	\$311.60	3	\$934.80
EXP BU EXEC WIN RAT WIN SVR 11D UPG LIC W/ 24X7 S	\$568.15	1	\$568.15
EXP BU EXEC WIN ADV QFG 11D UPG LIC W/ 24X7 S	\$548.15	1	\$548.15
			\$10,286.92



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City of Onalaska
1/16/2008

Use Ver.

Switch Options:			
Infrastructure upgrade (Option 1 includes PoE switches to support a future phone system)	\$3,418.00	6	\$17,095.00
HP ProCurve 2850-PWR Ethernet Switch (PoE replacement switches) 10/100 48 port switches	\$1,789.00	1	\$1,789.00
HP ProCurve 2825-PWR Ethernet Switch (PoE replacement switches) 10/100 24 port switches			\$18,554.00
<i>Note that an additional 24-port 10/100/1000 switch will be needed for the data center if PoE is selected</i>			
HP ProCurve 2810-48G Managed Ethernet Switch 10/100/1000 48 port switches	\$2,990.00	6	\$14,885.00
HP ProCurve 2810-24G Managed Ethernet Switch 10/100/1000 48 port switches	\$1,379.00	1	\$1,379.00
			\$13,374.00

(3) 48 port switches are needed to upgrade server room
 (2) 48 port switches are needed to upgrade police department closet
 (1) 24 port switch is needed to upgrade the fire department closet

Attachment "d"



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Page 1

SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
JPB1137	10557388	1/15/2008

B JEFF PRODZINSKI
I 415 MAIN ST

S CITY OF ONALASKA
H 415 MAIN ST

L CITY OF ONALASKA
T ONALASKA, WI 54650-2953
O

P JEFF PRODZINSKI
T ONALASKA, WI 54650-2953
O Contact: JEFF PRODZINSKI 608-779-6346

Customer Phone# 6087796346

Customer P.O.# JPB1137

QUOTE

ACCOUNT MANAGER	SHIPPING METHOD	TERMS	EXEMPTION CERTIFICATE
BRIAN SIXSMITH 877-326-8928	UPS Ground (1- 2 d)	Request Terms	GOVT-EXEMPT

CITY	ITEM NUMBER	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
	1 840778	SONICWALL SSL-VPN 2000 Mfg#: SNC-01-SSC-5952 Contract: WCA SERVICES INCORPORATED	1725.95	1725.95
	1 840811	SONICWALL 24X7 SUP F/SBL 2000 Mfg#: SNL-01-SSC-5647 Contract: WCA SERVICES INCORPORATED	380.28	380.28
		Recommended items for SONICWALL SSL-VPN 2000.		
		849687 SONICWALL 8XS SUP FOR VPN-SS SNL-01-SSC-5646 Call for pricing		
		933848 SONICWALL 3YR 8XS F/SSL-VPN SNL-01-SSC-6237 Call for pricing		
		SUBTOTAL		2106.23
		FREIGHT		.00
		SALES TAX		.00
TOTAL				US Currency 2,106.23

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CDW Government, Inc.
230 North Milwaukee Ave.
Vernon Hills, IL 60061
General Phone: 847-371-
Account Manager's Direct

Attachment "e"

Please remit payment to:
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75 Remittance Drive
Suite 1515
Chicago, IL 60675-1515

The Topic of

“IP Telephony”

will need further discussion to develop a proper proposal

Attachment “g”



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SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
JQ6215	10557388	1/23/2008

E JEFF PROZINSKI
I 415 MAIN ST
L CITY OF ONALASKA
T ONALASKA, WI 54650-2953
O

S CITY OF ONALASKA
H 415 MAIN ST
P JEFF PROZINSKI
T ONALASKA, WI 54650-2953
O Contact: JEFF PROZINSKI 608-779-6346

Customer Phone# 6087796357

Customer P.O.# JQ6215 QUOTE

ACCOUNT MANAGER	SHIPPING METHOD	TERMS	EXEMPTION CERTIFICATE
BRIAN SIXSMITH 877-325-8328	FEDEX Ground	Request Terms	GOVT-EXEMPT

QTY	ITEM NUMBER	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
5	1264799	HP SB DC5700 E2160 80GB 1GB XFF DVD Mfg#: CPQ-RT991UT#ABA Contract: WCA SERVICES INCORPORATED	634.00	3170.00
1	826336	HP SB L1706 17" Mfg#: CPQ-FXS49AS#ABA Contract: WCA SERVICES INCORPORATED	187.00	187.00
Recommended items for HP SB DC5700 E2160 80GB 1GB XFF DVD				
	1011283	SVN 2YR EXT PERIPHERAL \$351		
	SVN-054443	59.84		
	1357404	SVCNET 3YR FC/PERIPHERAL \$3		
	SVN-071869	99.74		
Recommended items for HP SB L1706 17"				
	1011308	SVN 2YR EXT REPLACEMENT \$10.		
	SVN-054451	39.89		
	1011303	SVN 1YR EXT REPLACEMENT \$10		
	SVN-054457	17.95		
		SUBTOTAL		3357.00
		FREIGHT		.00
		SALES TAX		.00

TOTAL US Currency
3,357.00

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230 North Milwaukee Ave.
Verona Hills, IL 60061
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Account Manager's Dico

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75 Remittance Drive
Suite 1515
Chicago, IL 60675-1515

Attachment "h"



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SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
GXH1000	6614173	1/23/2007

B TROY MILLER
I 415 MAIN ST

S CITY OF ONALASKA
H 415 MAIN ST

L CITY OF ONALASKA
T ONALASKA, WI 54650-2953

P TROY MILLER
T ONALASKA, WI 54650-2953
O Contact: TROY MILLER

Customer Phone# 6087819650

Customer P.O.# TOUCH CF-30 QUOTE

ACCOUNT MANAGER	SHIPPING METHOD	TERMS	EXEMPTION CERTIFICATE
NICK LARSON 877-835-9335	UPS Ground (1- 2 d)	MasterCard/Visa Co	GOVT-EXEMPT

QTY	ITEM NUMBER	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1	1096218	PAN TB 30 CL2400 80GB 512MB XFP Mfg#: FNB-CF-30CQAZEM Contract: WCA SERVICES INCORPORATED	3957.55	3957.55
1	470719	PAN TOUGHBOOK NO FAULT WARR YR 1,2,3 Mfg#: PAN-CF-SVCLINF3Y Contract: WCA SERVICES INCORPORATED	247.25	247.25
1	1071035	PAN TB 30 CL2400 80GB 512MB XFP Mfg#: FNB-CF-30CQAZEM Contract: WCA SERVICES INCORPORATED	3716.38	3716.38
1	470719	PAN TOUGHBOOK NO FAULT WARR YR 1,2,3 Mfg#: PAN-CF-SVCLINF3Y Contract: WCA SERVICES INCORPORATED	247.25	247.25
1	1071913	PAN TB 30 CL2400 80GB 512MB XFP Mfg#: FNB-CF-30CQAZEM Contract: WCA SERVICES INCORPORATED	3957.55	3957.55
1	470719	PAN TOUGHBOOK NO FAULT WARR YR 1,2,3 Mfg#: PAN-CF-SVCLINF3Y Contract: WCA SERVICES INCORPORATED	247.25	247.25
SUBTOTAL				12973.23
FREIGHT				.00
SALES TAX				.00

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TOTAL US Currency
12,373.23

CDW Government, Inc.
230 North Milwaukee Ave.
Vernon Hills, IL 60061
General Phone: 847-371-5000
Account Manager's Direct Fax:

Please remit payment to:
CDW Government, Inc.
75 Remittance Drive
Suite 1515
Chicago, IL 60675-1515

Attachment "J"

Quantity	Product	CDW#G	Availability	Price	Excl. Price
25	Microsoft Office Professional Plus 2007 - license	1065967	In Stock	\$448.87	\$11,221.75
25	Microsoft Windows Vista Business - upgrade license	1065944	In Stock	\$179.54	\$4,488.50
Sub-Total					\$15,710.25

Click  to remove an item from your cart

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Attachment "J"



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City of Onalaska
1/18/2008

Product Price Per Unit Product Qty Extended Amount

Product	Price Per Unit	Product Qty	Extended Amount
PC and Operating System upgrades:	\$710	6	\$3,500
OptiPlex 740 Minitower replacement PCs (monitor not included) (replaces 5 oldest PCs)	\$181.00	25	\$4,525.00
VISTA Business (can downgrade to XP) upgrades 25 Windows 2000 PCs to XP	\$562.00	25	\$14,050.00
Office 2007 Standard open license (can downgrade to 2003) upgrades 25 Office 2000 to 2003			\$22,165.00

The Topic of

“Disaster Recovery”

will need further discussion to develop a proper proposal

Attachment “k”

Jim Strack

From: Jim Jambois [jim@tsbm.com]
Sent: Monday, January 21, 2008 3:53 PM
To: Jim Strack
Subject: print and scan options.xls

City of Onalaska

Print and Scan Options

Department	Make and Model	Price for Print	Price for Scan
Park and Recreation	Canon IR600	\$1,200.00	Not Available
Police Department	Canon IR550	\$1,200.00	Not Available
Police Department - Basement	Canon 7130F	Not Available	Not Available
Clerks Office	Canon IR600	\$1,200.00	Not Available
Inspection	Canon IR3300	\$800.00	Not Available
Clerk of Courts	Canon 6412F	Not Available	Not Available
Fire Department - Downstairs	Canon 6412F	Not Available	Not Available
Fire Department - Upstairs	Toshiba 230	\$875.00	\$600.00
Engineering	Toshiba 35	\$1,200.00	\$695.00
Tourism	Lanier 6725	Not Available	Not Available
Street Department	2 each Canon 1023iF	Standard	Standard
Library	Toshiba 35	\$1,200.00	\$695.00

Attachment #1

\$7,675 \$1,990
\$9,665



Tri-State Business Machines, Inc.

3310 Highway 157
P.O. Box 1807
La Crosse, Wisconsin 54601
Phone (608) 781-2100

4300 Hwy. 52 N., W. Frontage Road
P.O. Box 6056
Rochester, Minnesota 55901
Phone (507) 285-1513

January 22, 2008

Dear Jim;

Per your request I have put together side-by-side specification sheets for Toshiba, Canon, Konica, and Lanier departmental multi-function devices.

State pricing on the equipment starts at about \$6,000. This is a "bare-bones" type base price. Realistically, by the time you add fax boards, scan-to-email, finishers, large paper supply and document handlers, you're looking at close to \$12,000 for new equipment.

I've also included one rebuilt color system from Canon for your review. This product, fully loaded with 4 paper drawers, fax board, scan-to-email and finishing is available for \$9,995.

Jim, these are all business color machines and do not stand up to the standard of "graphics" color.

Service on this equipment under the State contract has minimum quantities for both black & white, as well as, color copies. It will run in the range of a minimum of \$150 per month. Color copies are at approximately \$.09 each and b/w are at about \$.018 each with parts and toner included.

Sincerely,

Jim Jambois
President
Tri-State Business Machines

Toll Free (WI): 1-800-356-COPY

(MN, IA) 1-800-344-COPY

Attachment "m"



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SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
JQN5734	10357388	1/23/2008

B JEFF PRODEZINSKI
L 415 MAIN ST
L CITY OF ONALASKA
T ONALASKA, WI 54650-2953
O

S CITY OF ONALASKA
H 415 MAIN ST
P JEFF PRODEZINSKI
T ONALASKA, WI 54650-2953
O Contact: JEFF PRODEZINSKI 608-779-6346

Customer Phone# 6087796357

Customer P.O.# JQN5734

QUOTE

ACCOUNT MANAGER	SHIPPING METHOD	TERMS	EXEMPTION CERTIFICATE
BRIAN SIKSMITH 877-325-8328	FEDEX Ground	Request Terms	GOVT-EXEMPT

QTY	ITEM NUMBER	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
3	1344982	HP DL320 G5F 3210 2GB A160 SATA Mfg#: CFR-445435-005 Contract: WCA SERVICES INCORPORATED	1355.00	4065.00
3	1368391	HP SB 2GB US PC2-6400 1X2GB KIT Mfg#: CFR-450260-821 Contract: WCA SERVICES INCORPORATED	290.18	870.54
50	1199380	WISE 650 128MB FLASH/256MB RAM Mfg#: WIS-902114-01L Contract: WCA SERVICES INCORPORATED	335.55	16777.50
SUBTOTAL				21713.04
FREIGHT				.00
SALES TAX				.00

TOTAL US Currency
21,713.04

BUY WITH CONFIDENCE. CDW IS A FORTUNE 500 COMPANY.

CDW Government, Inc.
230 North Milwaukee Ave.
Vernon Hills, IL 60061
General Phone: 847-371-5000 Fax: 847-419-6200
Account Manager's Direct Fax: 312-705-7965

Please remit payment to:
CDW Government, Inc.
75 Remittanoo Drive
Suite 1515
Chicago, IL 60675-1515

TechArts

6700 Old Collamer Rd STE 101
 E Syracuse, NY 13057-1117 USA
 Phone: (315) 455-1003 Fax: (315) 455-5838
<http://www.techarts.com>
sales@techarts.com

Quote No. 124937

Quote Date 1/23/2008

Customer No. 252984

Jim Strack
 City of Onalaska

Email: jprodzinski@mathy.com

Onalaska, WI 54650

Ship Via	Email		
Salesperson	Bobbo Cooley		

QTY	Part No.	Product Description	List Price	DISC %	Unit Price	Line Total
1	LB4NP	2X LoadBalancer, 4 servers (Non-Profit, Government and Academic Pricing only)	\$620.00	0.00%	\$620.00	\$620.00
1	LB4UPINP	2X LoadBalancer Upgrade Insurance for Terminal Services, 4 Servers License, 1 year (Non-Profit, Government and Academic Pricing only)	\$190.00	0.00%	\$190.00	\$190.00
1	EPS1NP	2X ThinClientServer email and phone support by manufacture for 1 year from the time of original product purchase. (Does not include product upgrades.) (Non-Profit, Government and Academic Pricing only)	\$300.00	0.00%	\$300.00	\$300.00

Subtotal	\$1,110.00
Shipping Charge	\$0.00
Sales Tax	\$0.00
Quote Total	\$1,110.00

For your convenience, pay for this online at <http://www.techarts.com/office/payments.asp>

Product specifications and prices are subject to change without notice. Unopened products are returnable within 30 days of the original date of purchase unless otherwise noted elsewhere and only if an authorized RMA number is issued. Books and videos are non-returnable. Opened software is non-returnable. Shipping and handling costs are non-refundable. Restocking fees may apply in certain cases. No returns will be accepted without first contacting TechArts to obtain an RMA number.

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Prepared for:
City of Onalaska
1/18/2008

Product	Price Per Unit	Product Qty	Extended Amount
Terminal Server Hardware Estimate:	\$5,000	3	\$15,000
Terminal servers	\$300.00	50	\$15,000
Wyse WinTerm Thin Client			\$12,000.00

LOCKNET, Inc.

3128 South Avenue La Crosse WI 54601

phone: 608-785-7100



La Crosse Office
1202 Caladonia Street
La Crosse, WI 54603
Phone 608-782-6530
Fax 608-782-1219
www.whv.com

Winona Office
374 East Second St.
P.O. Box 77
Winona, MN 55987
Phone 507-452-2064
Fax 507-452-6320
www.wbvr.com

Rochester Office
1712 Third Ave. SE
Rochester, MN 55904
Phone 507-280-4201
Fax 507-281-7694
www.wbvr.com

ESTABLISHED IN 1902

•HVAC Design/Build •Roofing •Service/Controls •Testing & Balancing •Specialty Metals •Architectural Sheet Metal

PROPOSAL

Date:	January 21, 2008
Project:	City of Onalaska
Contact:	Jim Strack
Scope:	<ul style="list-style-type: none">• Provide and install an Ethernet gateway to replace current serial communication gateway, and assign static IP address as directed by the City.• Provide and install WebCTRL software on a computer/server as provided by the City.• Upgrade the legacy database to run under the WebCTRL format.• Provide training on the operating differences between the current software, Supervision, and WebCTRL. <p>Owner's Responsibilities:</p> <ul style="list-style-type: none">• Provide/configure computer to act as WebCTRL server. This computer requires Windows XP Pro, or Server; and a minimum of 512MB RAM.• Provide a network connection for the Ethernet gateway, which will be located in the control panel next to the present site of the HVAC workstation.• Provide IT support as required.
Price:	\$2,980
Thank you for the opportunity to make this proposal. Proposal is valid for 30 days.	
Jim Squire	
WHV-La Crosse	

Attachment "o"



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800-808-4239

Page 1

SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
JPB1519	10557388	1/15/2008

B
L
L
T
O
JEFF PRODZINSKI
415 MAIN ST
CITY OF ONALASKA
ONALASKA, WI 54650-2953

S
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P
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O
CITY OF ONALASKA
415 MAIN ST
JEFF PRODZINSKI
ONALASKA, WI 54650-2953
Contact: JEFF PRODZINSKI 608-779-6346

Customer Phone # 6087796346

Customer P.O.# JPB1519 QUOTE

ACCOUNT MANAGER	SHIPPING METHOD	TERMS	EXEMPTION CERTIFICATE
BRIAN SIXSMITH 877-325-8328	UPS Ground (1-2 d)	Request Terms	GOVT-EXEMPT

QTY	ITEM NUMBER	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1	950822	BLACKBERRY ESD ENT SRV 4.1 EXCH 20U Mfg#: RM-PRD-10459-001 Contract: WI MICROCOMPUTER CONTRACT 15-20800-501	3346.27	3346.27
1	1263445	HP SB DL360 G5 E5335 2GB Mfg#: CPR-470064-S12 Contract: NCA SERVICES INCORPORATED	1589.00	1589.00
1	1005272	HP POW SUPPLY DL36X Mfg#: CPR-399542-B21 Contract: NCA SERVICES INCORPORATED	297.60	297.60
2	813363	HP T2GB 3G PLUG SAS 10K SFF HD Mfg#: CPR-375861-B21 Contract: NCA SERVICES INCORPORATED	270.56	541.12
		Recommended items for HP SB DL360 G5 E5335 2GB		
		1016215 HPE S-BUY 3YR 24X7X4 E/DL36 HPE-UE892E 374.06		
		660485 HPE 4YR 5X5KIBD ONSITE E/DL3 HPE-UA008E 264.33		
			SUBTOTAL	5773.99
			FREIGHT	.00
			SALES TAX	.00

BUY WITH CONFIDENCE. CDW IS A FORTUNE 500 COMPANY.

TOTAL US Currency
5,773.99

CDW Government, Inc.
230 North Milwaukee Ave.
Vernon Hills, IL 60061
General Phone: 847-371-5000 Fax: 847-416-5000
Account Manager's Direct Fax:

Please remit payment to:
CDW Government, Inc.
75 Remittance Drive
Suite 1515
Chicago, IL 60675-1515

Attachment "p"



The Right Technology.
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www.CDW.com
800-608-4239

SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
JPB2176	10557388	1/15/2008

B JEFF PRODZINSKI
J 415 MAIN ST
L CITY OF ONALASKA
T ONALASKA, WI 54650-2953
O

S CITY OF ONALASKA
H 415 MAIN ST
I
P JEFF PRODZINSKI
T ONALASKA, WI 54650-2953
O Contact: JEFF PRODZINSKI 608-779-6346

Customer Phone # 6087796346

Customer P.O.# JPB2176 QUOTE

ACCOUNT MANAGER	SHIPPING METHOD	TERMS	EXEMPTION CERTIFICATE
BRIAN SIXSMITH 877-325-8328	FEDEX Ground	Request Form	GOVT-EXEMPT

QTY	ITEM NUMBER	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1	950822	BLACKBERRY ESD ENT SRV 4.1 EXCH 20U. Mfg#: RMW-PRD-10459-001 Contract: WI MICROCOMPUTER CONTRACT 15-20800-501	3346.27	3346.27
1	1344982	HP DL320 G59 3210 2GB A160 SATA Mfg#: CFR-465436-005 Contract: WCA SERVICES INCORPORATED	1437.90	1437.90
SUBTOTAL				4784.17
FREIGHT				.00
SALES TAX				.00

TOTAL US Currency 4,784.17

BUY WITH CONFIDENCE. CDW IS A FORTUNE 500 COMPANY.

CDW Government, Inc.
230 North Milwaukee Ave.
Vernon Hills, IL 60061
General Phone: 847-371-5000 Fax: 847-419-6200
Account Manager's Direct Fax: 312-705-7965

Please remit payment to:
CDW Government, Inc.
75 Remittance Drive,
Suite 1515
Chicago, IL 60675-1515



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800-808-4239

SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
JPB2460	10557388	1/15/2008

J JEFF PRODEZINSKI
E 415 MAIN ST
L
L CITY OF ONALASKA
Y ONALASKA, WI 54650-2953
O

S CITY OF ONALASKA
H 415 MAIN ST
I
P JEFF PRODEZINSKI
Y ONALASKA, WI 54650-2953
O Contact: JEFF PRODEZINSKI 608-779-6346

Customer Phone # 6087796346

Customer P.O.# JPB2460 QUOTE

ACCOUNT MANAGER	SHIPPING METHOD	TERMS	EXEMPTION CERTIFICATE
BRIAN STZSMITH 877-328-8328	DROP SHIP-GROUND	Request Terms	GOVT-EXEMPT

QTY	ITEM NUMBER	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1	1340061	BLACKBERRY PRO SRV 4.1 MB EXCH 10U Mfg#: RMW-ERD-10459-107 Contract: WI MICROCOMPUTER CONTRACT 15-20800-501	625.77	625.77
1	781375	BLACKBERRY ESD ENT SRV CAL 10U Mfg#: RMW-ERD-07630-011 Contract: WI MICROCOMPUTER CONTRACT 15-20800-501	579.96	579.96
		SUBTOTAL		1205.73
		FREIGHT		.00
		SALES TAX		.00

TOTAL US Currency
1,205.73

BUY WITH CONFIDENCE. CDW IS A FORTUNE 500 COMPANY.

CDW Government, Inc.
230 North Milwaukee Ave.
Vernon Hills, IL 60061
General Phone: 847-371-5000 Fax: 847-419-6200
Account Manager's Direct Fax: 312-765-7965

Please remit payment to:
CDW Government, Inc.
75 Remittance Drive
Suite 1515
Chicago, IL 60675-1515



401 Edwards Street, Suite 1020

Shreveport, LA 71101

866-417-6498

Sales Order Number	Purchase order	Sales Rep	Shipping Method
1200	Customer: Jeff083007HQ	Al Nollren Erhly Wilson	UPS Ground

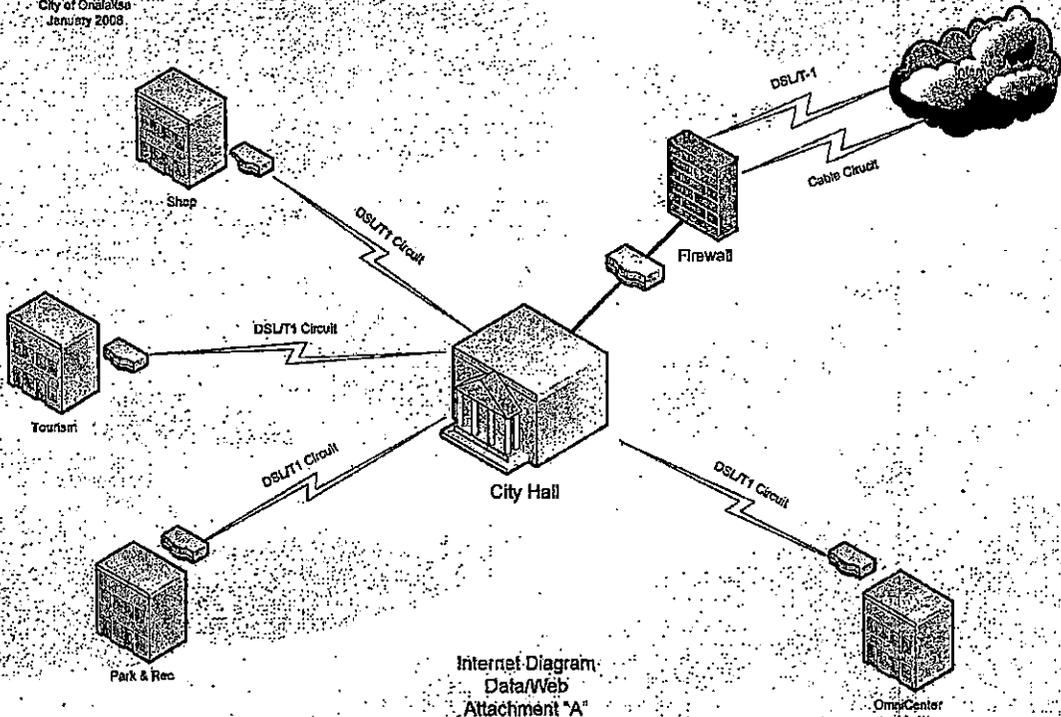
Qty	SKU	Description	Line Total
1	DUD110	Defender Model U110	\$4,999.00
		0 Year(s) Software Maintenance. End Date: 12/6/2007	\$.00
		0 Year(s) Hardware Maintenance. End Date: 12/6/2007	\$.00
		30 Day Trial	
		Subtotal	\$4,999.00
		Shipping	\$ 42.00
		Sales Tax	
		Total	\$5,041.00

Your Email Archive and Management Solution

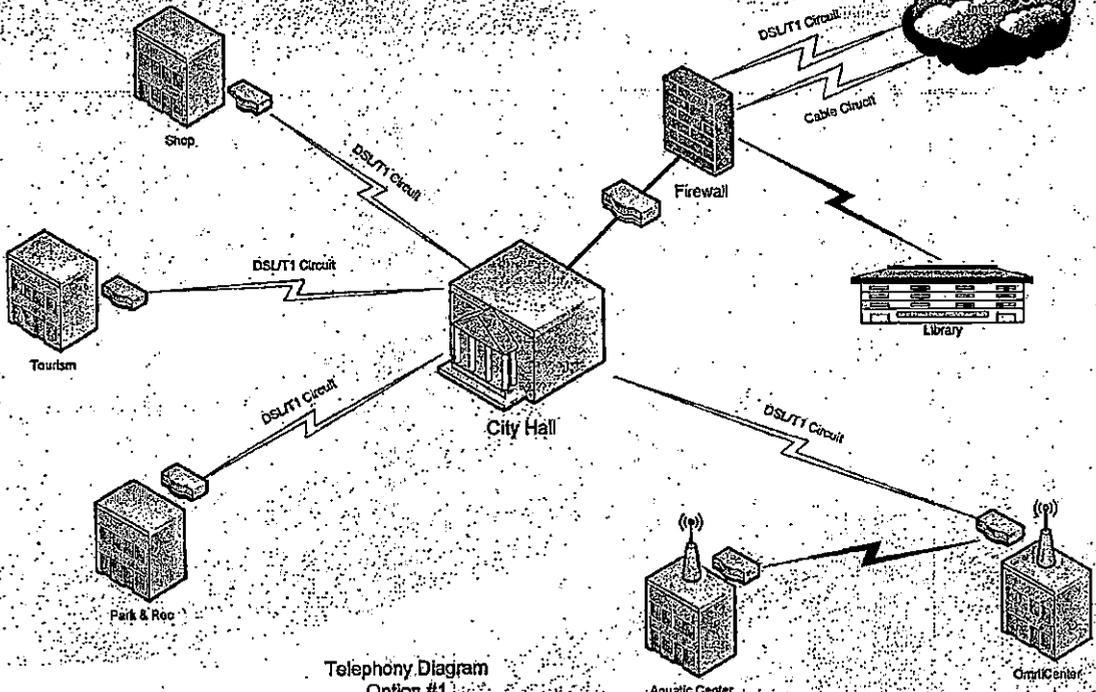
Arcmail technology

Attachment "q"

City of Onalaska
January 2008



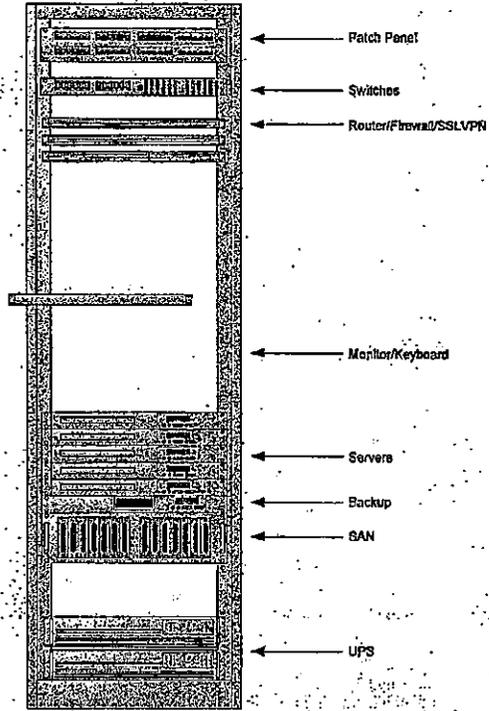
City of Onalaska
January 2008



Telephony Diagram
Option #1
Attachment "B"

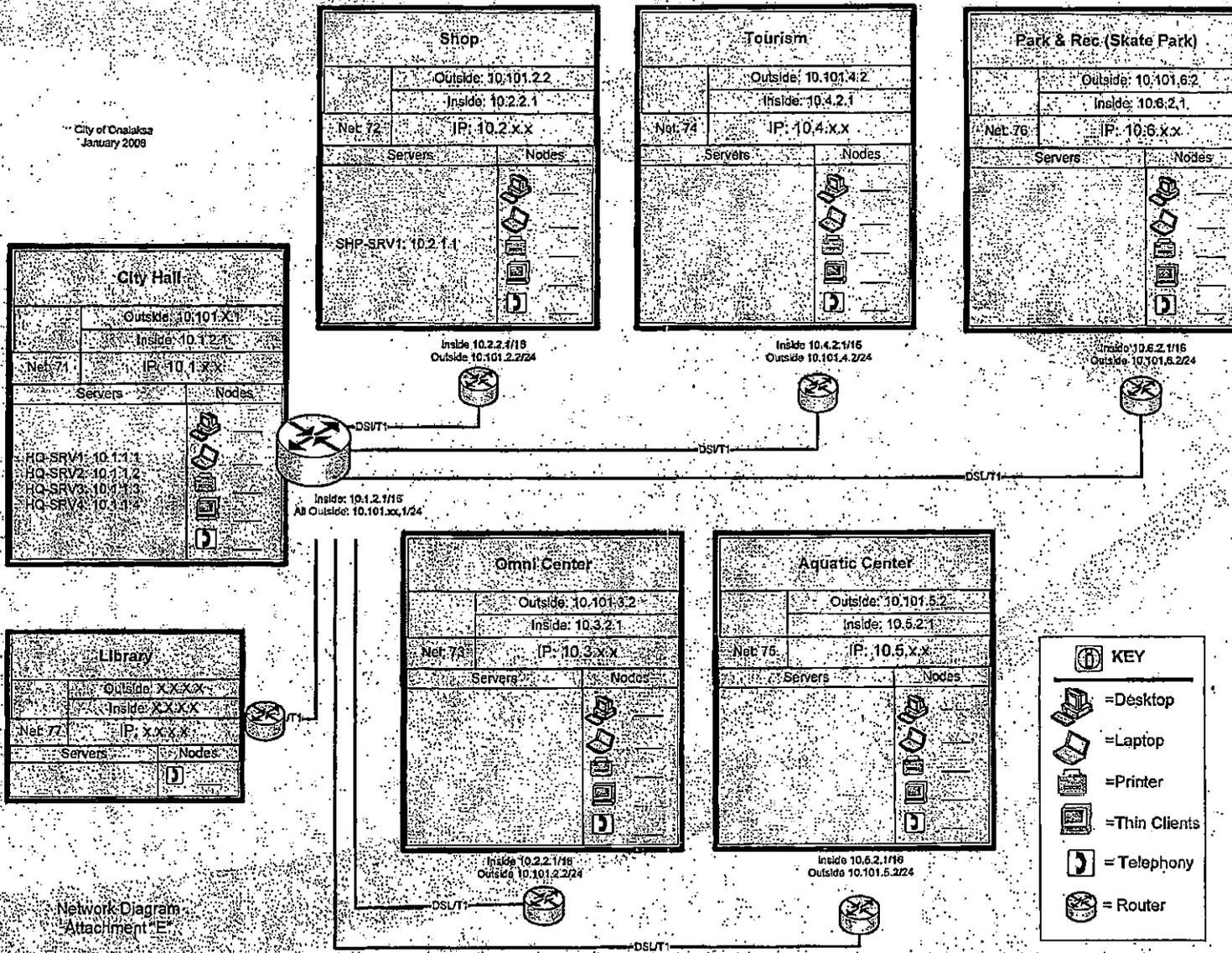
City of Onalaska
January 2008

Conceptual design for review
01/15/08

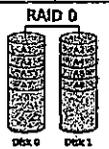
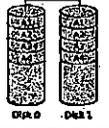
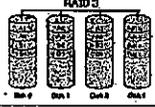
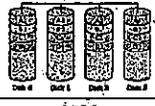
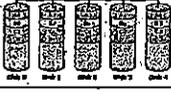


City Onalaska
Data Center
Attachment "D"

City of Onalaska
January 2008



Network Diagram
Attachment "E"

Level	Description	Minimum # of disks	Image
RAID 0	Striped set without parity. Provides improved performance and additional storage but no fault tolerance. Any disk failure destroys the array, which becomes more likely with more disks in the array. A single disk failure destroys the entire array because when data is written to a RAID 0 drive, the data is broken into fragments. The number of fragments is dictated by the number of disks in the drive. The fragments are written to their respective disks simultaneously on the same sector. This allows smaller sections of the entire chunk of data to be read off the drive in parallel, giving this type of arrangement huge bandwidth. When one sector on one of the disks fails, however, the corresponding sector on every other disk is rendered useless because part of the data is now corrupted. RAID 0 does not implement error checking so any error is unrecoverable. More disks in the array means higher bandwidth, but greater risk of data loss.	2	 <p>RAID 0</p> <p>Disk 0 Disk 1</p>
RAID 1	Mirrored set without parity. Provides fault tolerance from disk errors and single disk failure. Increased read performance occurs when using a multi-threaded operating system that supports split seeks, very small performance reduction when writing. Array continues to operate so long as at least one drive is functioning.	2	 <p>RAID 1</p> <p>Disk 0 Disk 1</p>
RAID 3	Striped set with dedicated parity. This mechanism provides an improved performance and fault tolerance similar to RAID 5, but with a dedicated parity disk rather than rotated parity stripes. The single disk is a bottle-neck for writing since every write requires updating the parity data. One minor benefit is the dedicated parity disk allows the parity drive to fail and operation will continue without parity or performance penalty.	3	 <p>RAID 3</p> <p>Disk 0 Disk 1 Disk 2</p>
RAID 4	Identical to RAID 3 but does block-level striping instead of byte-level striping.	3	 <p>RAID 4</p> <p>Disk 0 Disk 1 Disk 2</p>
RAID 5	Striped set with distributed parity. Distributed parity requires all but one drive to be present to operate; drive failure requires replacement, but the array is not destroyed by a single drive failure. Upon drive failure, any subsequent reads can be calculated from the distributed parity such that the drive failure is masked from the end user. The array will have data loss in the event of a second drive failure and is vulnerable until the data that was on the failed drive is rebuilt onto a replacement drive.	3	 <p>RAID 5</p> <p>Disk 0 Disk 1 Disk 2 Disk 3</p>
RAID 6	Striped set with dual distributed parity. Provides fault tolerance from two drive failures; array continues to operate with up to two failed drives. This makes larger RAID groups more practical, especially for high availability systems. This becomes increasingly important because large-capacity drives lengthen the time needed to recover from the failure of a single drive. Single parity RAID levels are vulnerable to data loss until the failed drive is rebuilt; the larger the drive, the longer the rebuild will take. With dual parity, it gives time to rebuild the array without the data being volatile while the failed drive is being recovered.	4	 <p>RAID 6</p> <p>Disk 0 Disk 1 Disk 2 Disk 3 Disk 4</p>

RAID Definitions - Attachment "F"

Proposed Server Upgrade/Replacement Project

Project Costs

Description	Cost	Quantity	Total
Microsoft Exchange Standard	\$ 457.08	1	\$ 457.08
Microsoft Exchange Standard CALs	\$ 56.64	125	\$ 7,080.00
Microsoft Windows Server Datacenter	\$ 497.04	16	\$ 7,952.64
Microsoft Windows Server CALs	\$ 24.60	125	\$ 3,075.00
Dell PowerEdge R730xd	\$ 16,651.59	2	\$ 33,303.18
			\$ 51,867.90

Server Operating System Overview

Count	Operating System version	Support Status	Expiration
4	Windows Server 2003	Unsupported	Expired
2	Windows Server 2008	Extended Support	2020
11	Windows Server 2008 R2	Extended Support	2020
5	Windows Server 2012	Mainstream Support	2023
0	Windows Server 2012 R2	Mainstream Support	2023
0	Windows Server 2016	Mainstream Support	2027

Hardware Comparison

Server	Age	Processor cores	RAM (GB)	Storage (TB)
HP ProLiant DL380 G7	6 years	12	72	1
HP ProLiant DL380 G7	6 years	12	72	
HP ProLiant DL380 G7	6 years	12	72	
Super Micro NAS	3.5 years			12
Total		36	216	13
HP ProLiant DL380 G9	-	16	256	16.8
Dell PowerEdge R730xd	-	16	256	16.8
Total		32	512	33.6