Wharton County Junior College

Proposed Agenda Item

Board of Trustees Meeting

Complete this form and submit it to the Office of the President by 5:00 pm on the eleventh day before the following Tuesday meeting of the Board of Trustees. If this form does not provide enough space, you may use an expanded version *as long as you follow the format specified below.*

Date of Board Meeting: April 16, 2019   Date of This Proposal: April 5, 2019

SUBJECT (item as it will appear on agenda):

Approve the transfer from the MIS Plant Fund of $84,087.00 to purchase two database servers for the Banner Management Information System.

RECOMMENDATION:

Approve the transfer from the MIS Plant Fund of $84,087.00 to purchase two database servers for the Banner Management Information System.

BACKGROUND/RATIONALE:

A new database server is needed to replace the aging server that is seven years old. This server is running out of space and is in need of an upgrade to the operating system. An additional server is to be purchased to be used for multiple testing environments and to free up system resources from the production environment. An Oracle upgrade and an operating system upgrade are needed to remain supported; however, this cannot be accomplished with the current environment of one server due to the downtime that would be needed to install the operating system, upgrade the databases, and test. Adding an additional database server will allow for testing upgrades and minimize risk of performing operating upgrades. The Texas Department of Information Resources has an existing contract with Oracle to price & purchase the servers. (contract DIR TSO 4158) Purchases using this contract satisfy all State Bid requirements.
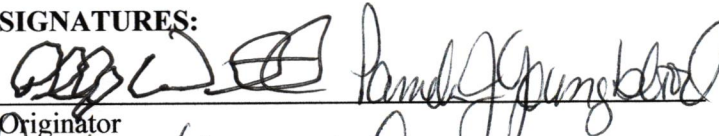
Estimated Cost and Budgetary Support (how will this be paid for?): $84,087.00
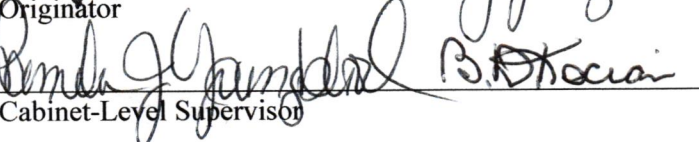Transfer from the MIS Plant Fund

RESOURCE PERSON(S) [name(s) and title(s)]:
Pamela J. Youngblood, Vice President of Technology
Bryce Kocian, Vice President of Administrative Services
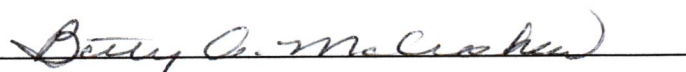**Philip Wuthrich, Director of Purchasing**

SIGNATURES:

Originator _____   Date 4-5-19

Cabinet-Level Supervisor _____   Date 4-5-2019   4/11/19

PRESIDENT'S APPROVAL:

_____   Date 4-11-19

W C J C Wharton County Junior College

Project Overview for

New production and test database servers

Date of Submission: _____3/18/2019_____

Submitted by: _Bryan Chuc/James Bullock/Kathy Nguyen_

Date reviewed by VP Team: _4-1-19_____

Recommendation of VP Team: approved _Jack_ BDK _____

Date of submission to President: _4-2-19_____

Action by President: _Approved Bon 4-2-19_____

Approval/Disapproval/Revision Needed/Other

I. Background / Summary of Project

A. Statement of the Problem

1) Our production database server is 7+ years old, Both the Operating System (version 6) and the Oracle database software (12cR1) need to be upgraded to later/newer versions to remain within vendor support schedule agreement; free disks space on this server is also low, at a risky threshold

2) All our existing databases: production databases (PROD, IDMSPROD, PRSCPROD, BKUPRECV), test and development databases (PRSCTEST, DEV, NEWDATA, BANDEMO, TEST, TESTREG) reside on the same server (we don't have a test/development server). They all take up system resources: memory, CPU, and disk space. As a result, they all fight for limited system resource and adversely impact production database performance and response time

B. Statement of the Problem

1) We need to upgrade the Operating System to version 7 and the Oracle database software to version 12cR**2** to remain within support schedule agreement; else we would have to pay additional expensive fees to the vendor for supporting older software. Doing the upgrade on our existing production server requires us to shut down Banner PROD for at least one month for: 1) install the Operating System, 2) install the Oracle Database software, 3) upgrade the database and 4) testing. It is not feasible to have our production server down for this lengthy period of time. To avoid this lengthy downtime and upgrade the disk space we would acquire a new server, install the Operating System, install the Oracle Database software, clone production database, let the users perform testing on the new server, then roll over our Banner production database to the new server when testing are completed successfully.

2) The benefits of having a separate test server from production server :
   a. to house test/development databases to eliminate contention for system resource, CPU, memory of these databases with production databases
   b. to improve production database performance and response time
   c. to allow for testing of new/required operating system patches on the test server first before applying them to production database to minimize risk

C. Overview of Anticipated Solution

1) Purchase 1 server for production databases: PROD, IDMSPROD, PRSCPROD, BKUPRECV

2) Purchase another server for test and development databases: PRSCTEST, DEV, NEWDATA, BANDEMO, TEST, TESTREG

II. Cost of Implementation

	Year One	Year Two	Year Three
Oracle Hardware Fees	$52,411.32	$0.00	$0.00
Oracle Premier Support for Systems Fees	$6,289.35	$0.00	$0.00
Installation Service Fees	$20,142.08	$0.00	$0.00
Shipping Fees	$5,243.42	$0.00	$0.00
Total	**$84,086.17**	**$0.00**	**$0.00**

Year one cost of $84,086.17 will be requested from the MIS Plant fund and includes three years of hardware and software maintenance. Oracle licensing costs will remain unchanged and are currently included in the yearly Banner maintenance invoice.

Cost for years four and forward will only include a maintenance cost and will be determined by what the hardware and software maintenance costs are at that time. The current three year maintenance cost that is included in the overall price is $6,289.35.

III. Plan for Implementation

A. Identify Stakeholders
- Implementation Team - Bryan Chuc, Kathy Nguyen, and James Bullock
- Purchasing - Philip Wuthrich
- Project Oversight - Pam Youngblood
- Testing Team - Functional end users

B. Explain Project Deliverables
Project deliverables are the purchase of two new database servers, installed, configured, and tested.

Identify Expected Progress Reports/Milestones

- Create purchase orders
- Receive equipment
- Successful installation and configuration of the equipment
- Successful migration of the data
- Successful testing of all business processes

Develop a Timetable

- April 16, 2019 – Board of Trustees approval for the transfer of funds.
- April 17, 2019 – Purchase orders created
- May, 2019 – receive equipment
- May - June, 2019 – install and configure equipment. Migration of data.
- June – July, 2019 – test
- July, 2019 – Go Live

IV.   Assessment Plan

A.   Criteria for Success
We will know we have been successful with this project when we have new servers installed, data migrated, and are LIVE with the new equipment.

B.   Plan of Action for Improvement/Revisions
Hardware and software contracts will be maintained for the new equipment after year three. Patching of software will be done as necessary. Banner maintenance and patching will continue as necessary. Monitoring of the new equipment will be ongoing.

ORACLE®

ORDERING DOCUMENT

Oracle America, Inc.
500 Oracle Parkway
Redwood Shores, CA
94065

Name	WHARTON COUNTY JUNIOR COLLEGE	**Contact**	James Bullock
Address	911 E Boling Hwy WHARTON TX 77488	**Phone Number**	979-532-6330
		Email Address	jamesb@wcjc.edu

Ship to Address:

Name	WHARTON COUNTY JUNIOR COLLEGE	**Contact**	James Bullock
Address	911 E Boling Hwy WHARTON TX 77488	**Phone Number**	979-532-6330
		Email Address	jamesb@wcjc.edu

Hardware and Hardware-Related Service Offerings				
Item	**Part Number**	**Hardware Description**	**Quantity**	**Net Fee**
1.0	7115161	Oracle Server X7-2: model family **Total: 72,553.40**		
1.1	7115194	Oracle Server X7-2: 1 RU base chassis with motherboard, eight 2.5-inch drive slots disk cage, 2 PSUs, slide rail kit, and cable management arm	2	4,255.68
1.2	7115210	1 Intel? Xeon? Silver 4114 10-core 2.2 GHz processor (for factory installation)	4	3,625.44
1.3	7115197	Short heat sink (for factory installation)	4	68.64
1.4	7117386	SAS cables for 1U (for factory installation)	2	81.12
1.5	7111107	One 1.2 TB 10000 rpm 2.5-inch SAS-3 HDD with marlin bracket (for factory installation)	16	7,937.28
1.6	7102748	PCIe filler panel (for factory installation)	6	9.36
1.7	333W-25-13-C14RA	Power cord: Sun Rack jumper, 2.5 meters, C14RA plug, C13 connector, 13 A (for factory installation)	4	152.88
1.8	7116456	Processor clip (for factory installation)	4	6.24
1.9	7115464	Two 480 GB M.2 SATA SSDs for 1U (for factory installation)	2	2,073.24
1.10	7117125	Oracle Storage 12 Gb SAS PCIe RAID HBA, internal: 16 port and 2 GB memory (for factory installation)	2	1,404.00
1.11	B61304	Oracle Standard System Installation Service, Site Audit: Servers - Group II	2	3,098.78

Issued by Oracle America, Inc. 21-MAR-2019

Hardware and Hardware-Related Service Offerings				
Item	Part Number	Hardware Description	Quantity	Net Fee
1.12	7115202	One 64 GB DDR4-2666 registered LRDIMM (for factory installation)	36	32,797.44
1.13	B72648	Oracle Standard Software Installation & Configuration for Systems Service: Oracle Linux (no OVM)	2	14,460.98
1.14	B72641	Oracle Standard Software Installation & Configuration for Systems Service: Base	1	2,582.32
1.15		Oracle Premier Support for Systems		6,289.35
		Hardware and Hardware-Related Service Offerings Fees		78,842.75

Other Fees	Quantity	
ACS Estimated Travel and Expenses	8	4,800.00
Hardware Freight Fee	2	443.42
Shipping Method: HARDWARE - STANDARD	**Other Fees**	5,243.42

Fee Description		Net Fee
Oracle Hardware Fees		52,411.32
Oracle Premier Support for Systems Fees		6,289.35
Installation Service Fees		20,142.08
Other Fees		5,243.42
Total Fees		84,086.17

A. Agreement and Modifications to the Agreement

1. Agreement

a. This order incorporates by reference the terms of the Online Transactional Oracle Master Agreement v060917 (the "Master Agreement") which may be viewed at http://www.oracle.com/contracts. The defined terms in the Master Agreement shall have the same meaning in this order unless otherwise specified herein.

2. Applicable Schedule(s)

a. Hardware and Hardware-Related Service Offerings are governed by Schedule H - Hardware.

B. General Terms

1. Summary of Fees

a. Listed above is a summary of net fees due under this order. All fees on this order are in US Dollars and are exclusive of any applicable shipping charges or applicable taxes.

b. You have ordered Hardware and/or Programs and 1 year of technical support services.

2. Territory

a. The Hardware included on this order shall be installed in the country that You specify as the delivery location on Your purchasing document or when Your purchasing document does not indicate a ship to address, the location specified in this order.

3. Fees

a. Once placed, Your order shall be non-cancelable and the sums paid nonrefundable, except as provided in the Master Agreement.

4. Offer Validity

This order is valid through 30-APR-2019, and shall become binding upon execution by You and acceptance by Oracle.

5. Order of Precedence

In the event of inconsistencies between the terms contained in this order and the Master Agreement, this order shall take precedence. This order will control over the terms contained in any purchase order.

6. Customer Reference

Oracle may refer to You as an Oracle customer of the ordered Products and Service Offerings in sales presentations, marketing vehicles and activities.

7. Delivery

The Hardware You have ordered will be delivered: DDP; Freight prepaid and charged back via delivery method HARDWARE - STANDARD.

8. Effective Date

If accepting this order electronically, the effective date of this order is the date You click to accept the order. Otherwise, the effective date is stated below.

C. Terms Specific to Hardware and Hardware Support Services

1. Delivery, Installation and Acceptance of Hardware

a. Installation Services. A description of such service(s) is found in the Advanced Customer Services section at www.oracle.com/contracts and is incorporated by reference.

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WHARTON COUNTY JUNIOR COLLEGE

Signature   _____

Name   _____

Title   _____

Signature Date   _____

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BILL TO / SHIP TO INFORMATION

Bill To		Ship To	
Customer Name	WHARTON COUNTY JUNIOR COLLEGE	Customer Name	WHARTON COUNTY JUNIOR COLLEGE
Customer Address	911 E Boling Hwy WHARTON TX 77488	Customer Address	911 E Boling Hwy WHARTON TX 77488
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