

BOARD OF SUPERVISORS AGENDA ITEM REPORT AWARDS / CONTRACTS / GRANTS

Award Contract C Grant	Requested Board Meeting Date: 05/21/2024
* = Mandatory, information must be provided	or Procurement Director Award:
*Contractor/Vendor Name/Grantor (DBA):	
International Business Machines Corporation DBA IBM Corporation	
*	

*Project Title/Description:

Maximo Upgrade and Workday Integration

*Purpose:

Amendment of Award: Master Agreement No. MA-PO-23-127, Amendment No. 03. This Amendment extends the termination date to 07/26/2024, increases the contract not-to-exceed amount by \$500,000.00 from \$2,200,000.00 to \$2,700,000.00, and revises the Statement of Work to incorporate changes included in Project Change Request 3. Administering Department: Information Technology.

*Procurement Method:

Pursuant to Pima County Procurement Code 11.12.020, Competitive sealed proposals, on 04/04/2023, the Board of Supervisors approved an award of contract for a term effective April 04, 2023 to June 15, 2024 in the award amount of \$2,200,000.00.

On 01/12/2024, the Procurement Director approved Amendment No. 01, which revised the schedule of the project to begin on 05/15/2023 and adjusted the payment schedule as described in Project Change Request 1.

On 01/23/2024, the Board of Supervisors approved Amendment No. 02, which revised the Statement of Work to incorporate changes included in Project Change Request 2.

This amendment is required to allow more time to complete the Maximo integration and improve integrated functionality between Maximo and Workday.

PRCUID: 425287

Attachment: Contract Amendment No. 03.

*Program Goals/Predicted Outcomes:

Maximo currently provides Pima County asset and work management tools, and this implementation will update and increase functionality of that software to better integrate with the new ERP System. This will increase County efficiency and interoperability through the implementation of an integrated ERP system.

*Public Benefit:

As the systems being replaced are vital to the operations of the County, a more fully integrated ERP system will allow County departments to more efficiently perform their duties, thereby permitting the County to better serve its constituents in a more cost-effective environment.

*Metrics Available to Measure Performance:

Standard project management measurements to track progress of the project and validate implementation success. Analysis of life-long costs and support metrics during the life of the ERP system.

*Retroactive:

Nο

TO: COB 05/06/2024

PGS: 14

THE APPLICABLE SECTION(S) BELOW MUST BE COMPLETED

Click or tap the boxes to enter text. If not applicable, indicate "N/A". Make sure to complete mandatory (*) fields

Contract / Award Information		
Document Type: Depa	artment Code:	Contract Number (i.e., 15-123):
Commencement Date: Term	nination Date:	Prior Contract Number (Synergen/CMS):
Expense Amount \$*	☐ R	evenue Amount: \$
*Funding Source(s) required:		
Funding from General Fund?	If Yes \$	
Contract is fully or partially funded with Federal F	unds? Yes O No	0
If Yes, is the Contract to a vendor or subrecipie	ent?	
Were insurance or indemnity clauses modified? <i>If Yes, attach Risk's approval.</i>	C Yes C N	0
Vendor is using a Social Security Number? If Yes, attach the required form per Administrative Page 1.	C Yes C N	No
Amendment / Revised Award Information		
Document Type: MA Depar	tment Code: <u>PO</u>	Contract Number (i.e., 15-123): <u>23-127</u>
Amendment No.: <u>03</u>	A	AMS Version No.: <u>5</u>
Commencement Date: <u>05/21/24</u>	1	New Termination Date: <u>07/26/24</u>
	F	Prior Contract No. (Synergen/CMS): <u>N/A</u>
	Decrease	Amount This Amendment: \$ <u>500,000.00</u>
Is there revenue included?	If Yes \$ <u>N/A</u>	<u>undant mis / une nament.</u>
*Funding Source(s) required: Non-Bond Proj	ects Fund (Capital Proj	<u>ject Funds)</u>
Funding from General Fund?	If Yes \$ <u>N/A</u>	% <u>N/A</u>
Grant/Amendment Information (for grants ac	ceptance and awards)	C Award C Amendment
Document Type: Depar	tment Code:	Grant Number (i.e., 15-123):
Commencement Date:	Termination Date:	Amendment Number:
Match Amount: \$	Rev	enue Amount: \$
*All Funding Source(s) required:		
*Match funding from General Fund? Yes	C No If Yes \$	
*Match funding from other sources? Yes *Funding Source:	O No If Yes \$	%
*If Federal funds are received, is funding comi	ing directly from the Fed	leral government or passed through other organization(s)?
Contact: Procurement Officer, Brandon Mo	rgan Digitally signed by Brandon Morgan	Acting Division Manager, Troy McMaster Digitally signed by Troy McMa
Department: Procurement Director, Terri Sper	- / '	Telephone: 520.724.8728
repartment Director Signature: Javier Bac		Date:
Deputy County Administrator Sig	3/1	Date: 5-3-20
ounty Administrator Signature:		- far Date: 5/3/2024

Pima County Procurement Department

Project: Maximo Upgrade and Workday Integration

Contractor: International Business Machines Corporation dba IBM Corporation

1 Orchard Road Armonk, NY 10504

Contract No.: MA-PO-23-127

Contract Amendment No.: 03

 Orig. Contract Term:
 04/04/2023 - 06/15/2024
 Orig. Amount:
 \$ 2,200,000.00

 Termination Date Prior Amendment:
 06/15/2024
 Prior Amendments Amount:
 \$ 0.00

 Termination Date This Amendment:
 07/26/2024
 This Amendment Amount:
 \$ 500,000.00

 Revised Total Amount:
 \$ 2,700,000.00

CONTRACT AMENDMENT

The parties agree to amend the above-referenced contract as follows:

1. Background and Purpose.

- 1.1. <u>Background</u>. On April 4, 2023, County and Contractor entered into the above referenced agreement to provide services to upgrade Maximo software in use by the County and integrate it with the Workday Enterprise Resource Planning (ERP) System.
- 1.2. <u>Purpose</u>. County requires additional integration work to allow the Maximo software the ability to send purchase order revisions to the Workday ERP System.
- 2. Term. The parties agree to extend the contract term to terminate on July 26, 2024. If the commencement date is before the Effective Date of this amendment, the parties will, for all purposes, deem the amendment to have been in effect as of the commencement date.
- **3. Maximum Payment Amount**. The maximum amount the County will spend under this Contract, as set forth in Section 5.2, is increased by \$500,000.00. County's total payments to Contractor under this contract, including any sales taxes, will not exceed \$2,700,000.00.
- 4. Scope of Services. The parties have revised the Statement of Work as described in Exhibit D: Project Change Request 3 (6 pages). The functionality referenced in Exhibit D includes the proposed solution that will allow purchase order revisions created by County users in Maximo to automatically be sent to the related purchase order in the Workday ERP system as described in Exhibit D-1: Solution Design Document (6 pages).

Contract No.: MA-PO-23-127 Page 1 of 2

All other provisions of the Contract not specifically changed by this Amendment remain in effect and are binding upon the parties.

This contract template has been approved as to form by the Pima County Attorney's Office.

PIMA COUNTY	INTERNATIONAL BUSINESS MACHINES CORPORATION DBA IBM
	corposition by Randall Serak
	on 2024-05-02
Chair, Board of Supervisors	Authorized Officer Signature
	Associate Partner Randall Serak
Date	Printed Name and Title
	2024-05-02 10:29:32 PDT
	Date
ATTEST	
Clerk of the Board	
Date	
APPROVED AS TO CONTENT	
Muncy Cole	
Department Head	<u> </u>
5/2/24	
Date	

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EXHIBIT D

Pima County Contract No. MA-PO-23-127

PROJECT CHANGE REQUEST - Pima County (Pima County Contract No. MA-PO-23-127)

Date Requested: Requested By: PCR Number: 003

April 15, 2024Ranjan Sarkar IBMWork Number / IBM Contract: W7Q6Y/ CFT68KS

This Project Change Request (PCR) must be approved by both parties: Pima County and International Business Machines ("IBM Consulting" or "IBM") and signed before the PCR becomes binding. All other terms in the Pima County and IBM Maximo Implementation SOW signed by the parties (April 15,2023) not affected by this PCR remain in full force and effect. IBM agrees to provide the Services described in this PCR, provided you accept this PCR without modification, by signing in the space below.

This PCR is intended to provide services and support to for the project extension thru July 26th, 2024. This PCR is also to build functionality around the Purchase Order Revision process. This PCR will extend the Master Agreement (MA) to July 26th, 2024. This PCR does include cost additions for the month of May, June, and July 2024. It is designed to provide support from IBM with the identified Technical Lead and Funtional Lead/PM supporting the Upgrade. The functionality to build the Purchase Order Revision process will require an App Connect Developer, a Workday Developer, and a Maximo SME.

Overview of the Purchase Order Revision Process:

The objective of this architecture is to allow Maximo to send Purchase Order revisions to Workday. In the process of revising a purchase order, app connect will need to be able to send over the revision information to Workday. Workday will need to process the new revision of the Purchase Order and remove the ability to modify the Purchase Order in Workday. Once Workday has processed the Purchase Order through encumbrance Maximo will pull the revised PO back from Workday through a Cron Task. There are 4 use cases this process needs to support:

- 1. The ability to add and remove new inventory.
- 2. The ability to adjust the inventory amount.
- 3. The ability to adjust the duration of a service.
- 4. The ability to adjust the shipping costs.

Both systems need to remain in sync. When Maximo sends out the Purchase Order to Workday there needs to be a status on the Purchase Order to indicate it's being processed through Workday. If Workday rejects the Purchase Order, then Maximo would need to have a status sent back and adjust the Purchase Order as rejected. If the Purchase Order was successful in Workday, then the Purchase Order is moved to Approved and a new revision has been added to the Purchase Order.

See additional details in Appendix A below.

Expected responsibilities:

Workday: Workday serves as the system of record for purchasing. The encumbrance process will run through Workday and will be used to drive the Maximo status for the revision. Workday will be responsible for Integration Design, Build, Data Mapping, Testing (Unit Testing, E2E), Integration Security, Integration Deployment.

App Connect: IBM App Connect is utilized as the middleware for integrating Workday with Maximo. It will provide the ability to push a revised Purchase Order to Workday and use Maximo Cron Tasks to pull the data out from Workday. Both using existing Workday API's. App Connect will be responsible for Development for App Connect Flow (Inbound and Outbound), testing flow, Mapping exercise, and migration.

Maximo: Maximo is the system where Purchase Order revisions originate from. Maximo will revise the Purchase Order and once the Purchase Order is ready the status will be changed to waiting on Workday. Once Workday sends the success or fail for the encumbrance process back to Maximo, Maximo will change the status accordingly. Maximo will be responsible for Endpoint, publish channel, external system development, Testing, Migration, and Mapping Efforts.

Standard Assumptions

The delivery of the Purchase Order Revision process will not be delivered until after Go-Live date to avoid any risks with the Go-Live process.

Charges - Total Additional Charges

The Services will be conducted on a fixed price basis. The fixed price for performing these Services defined in PCR 003 will be \$ 374,112.48 Spread evenly across A13, A14, and A15 in the Payment Schedule table below. See the table below for the cost breakdown. The Fees are exclusive of any travel and living expenses, other reasonable expenses incurred in connection with the Services, and any applicable taxes. IBM will invoice Client for the Services performed on a milestone basis as set forth in the Payment Schedule defined in PCR 001 and PCR 002, plus applicable taxes and subject to Pima County's acceptance approval of the Maximo Implementation Billing Milestone Table below.

Description	Value
May Extension	\$149,408.32
June Extension	\$149,408.32
(IBM Investment)	(\$149,408.32)
July Extension	\$149,408.32
(IBM Investment)	(74,704.16)
PO Revision	\$150,000
Sum	\$374,112.48

PCR 001 + PCR 002 + PCR 003 Payment Schedule

Ref#	Milestone/Phase	Target Delivery Date	Completion Criteria	Amount (USD)
A1	Project Initiation & Planning	05/2023	Project Kick-off Meeting and Initial Project Plan and support and alignment to ongoing Workday implementation project	\$169215.53
A2	Upgrade/Conversion	6/2023	Start Dev Environment Upgrade to 7.6.1.3 Dev Database Conversion	\$169215.53
A3	Design & Build	7/2023	IT Checkout, Start MAS checkout for SRE upgrade to Mas 8.x. Begin Integration Adapter Design verification. Inventory Functional Design & Build	\$169215.53
A4	Design & Build	8/2023	Complete Integration adapter design. Start build activities. Complete Inventory Functional Design & Build. Start Purchasing Functional Design and Build	\$169215.53
A5	Design & Build	9/2023	Continue Integration adapter build & Unit Test. Complete Purchasing Functional Design and Build	\$169215.53

A6	Upgrade/Conversion	10/2023	Complete Integration adapter build & Unit Test. QA/Test Environment Upgrade to 7.6.1.3. QA/Test Database Conversion IT Checkout, MAS checkout for SRE upgrade to Mas 8.x. Start Test and Validation of ESRI integration	\$149408.32	
A7	Testing	11/2023	Start System Integration Testing (SIT)	\$149408.32	
A8	Testing	12/2023	Continue System Integration Testing (SIT). Defect Resolutions/ Retest.	\$149408.32	
А9	Testing	1/2024	System Integration Testing (SIT). Defect Resolutions/ Retest.	\$207838.50	
A10	Testing	2/2024	Complete System Integration Testing (SIT). Defect Resolutions/ Retest.	\$207838.50	
A11	Upgrade/Conversion	3/2024	Upgrade to 7.6.1.3. User Acceptance testing (UAT) Database, Database Conversion. IT Checkout, MAS checkout for SRE upgrade to Mas 8.x. Start User Acceptance testing (UAT)	\$207838.50	

A12	Testing	4/2024	Complete User Acceptance testing (UAT)	\$91181.89
A13	Testing	5/2024	Complete User Acceptance testing (UAT)	\$124,704.16
A14	UPGRADE/Conversion, Development of PO Revision	6/2024	Upgrade to 7.6.1.3. Production Database, Database Conversion IT Checkout, MAS checkout for SRE upgrade to Mas 8.x. Development of PO Revision	\$124,704.16
A15	Go-Live Hypercare Support Project Complete	7/2024	Go-Live and Hypercare Support. Project Completion	\$124,704.16

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PCR Approval

In entering into this PCR, you are not relying upon any representation made by or on behalf of IBM that is not specified in the Agreement or the Statement of Work, including, without limitation, the actual or estimated completion date, number of hours to provide any of the Services, charges to be paid, or the results of any of the Services to be provided under the Statement of Work. Each of us agrees that the complete agreement between us about these Services consists of 1) this Project Change Request, 2) the referenced Statement of Work including any previous mutually-approved PCRs, and 3) the IBM Customer Agreement or any equivalent agreement in effect between us as identified below (the Agreement.)

Agreed to:	Agreed to:
Pima County	International Business Machines Corporation ("IBM")
By: (Authorized Signature)	By: (Auth Signed hay) Randall Serak
More	Associate Part 2024-05-02
Title (type or print): ERP Executive Project Manager	Title (type or print):
Name (type or print): Nancy Cole	Name (type or print): Randall Serak
Date: 5/2/24	Date: 2024-05-02 10:29:38 PDT
IBM Customer Number: 7195827	Agreement: Contract No. MA-PO-23-127
SOW Name:	Project Name:
Maximo Upgrade and Workday Integration	Maximo Upgrade and Workday Integration

EXHIBIT D-1

Solution Design Document - Purchase Order Revisions from Maximo to Workday

INTEGRATION OVERVIEW

The objective of this architecture is to allow Maximo to send Purchase Order revisions to Workday. In the process of revising a purchase order, app connect will need to be able to send over the revision information to Workday. Workday will need to process the new revision of the Purchase Order and remove the ability to modify the Purchase Order in Workday. Once Workday has processed the Purchase Order through encumbrance Maximo will pull the revised PO back from Workday through a Cron Task. There are 4 use cases this process needs to support:

- 5. The ability to add and remove new inventory.
- 6. The ability to adjust the inventory amount.
- 7. The ability to adjust the duration of a service.
- 8. The ability to adjust the shipping costs.

Both systems need to remain in sync. When Maximo sends out the Purchase Order to Workday there needs to be a status on the Purchase Order to indicate it's being processed through Workday. If Workday rejects the Purchase Order, then Maximo would need to have a status sent back and adjust the Purchase Order as rejected. If the Purchase Order was successful in Workday, then the Purchase Order is moved to Approved and a new revision has been added to the Purchase Order.

COMPONENTS

Workday: Workday serves as the system of record for purchasing. The encumbrance process will run through Workday and will be used to drive the Maximo status for the revision. Workday will be responsible for Integration Design, Build, Data Mapping, Testing (Unit Testing, E2E), Integration Security, Integration Deployment.

App Connect: IBM App Connect is utilized as the middleware for integrating Workday with Maximo. It will provide the ability to push a revised Purchase Order to Workday and use Maximo Cron Tasks to pull the data out from Workday. Both using existing Workday API's. App Connect will be responsible for Development for App Connect Flow (Inbound and Outbound), testing flow, Mapping exercise, and migration.

Maximo: Maximo is the system where Purchase Order revisions originate from. Maximo will revise the Purchase Order and once the Purchase Order is ready the status will be changed to waiting on Workday. Once Workday sends the success or fail for the encumbrance process back to Maximo, Maximo will change the status accordingly. Maximo will be responsible for Endpoint, publish channel, external system development, Testing, Migration, and Mapping Efforts.

INTEGRATION WORKFLOW

Purchase Order revision process in Maximo:

The Purchase Order (PO) revision process will start by creating a Purchase Requisition (PR) in Maximo. This process sends the PR from Maximo to App Connect, doing data transformation, and creating a PR in Workday. Once the PR has completed its encumbrance process and all conditions are met a PO is created and Approved in Workday. Once the PO is issued, it will be brought back to Maximo. This is the current process as of today.

The new process will be to change the status of the PO to revised to make changes. One or more of the following scenarios will be done to the PO:

- 1. The ability to add and remove new inventory.
- 2. The ability to adjust the inventory amount.
- 3. The ability to adjust the duration of a service.
- 4. The ability to adjust the shipping costs.

Once one or more of these scenarios is applied to the PO, the user will change the status of the PO to Waiting on Workday.

If the PO fails to make it to Workday due to custom validations, this process will follow the OOTB design. This would be an error in Message Tracking and an email to the Admins detailing the error.

Data Transformation – Maximo to Workday:

Upon sending data from Maximo, App Connect will perform the necessary transformations to map the PO specific fields to the corresponding fields in Workday. This flow will support the previously defined scenarios to allow Workday to drive the revision and encumbrance process forward. Transformation rules will be defined to ensure the integrity and consistency of data during the migration process.

To get around a known process in Workday, to remove a line item the quantity would be adjusted to 0 and App Connect will transform this by setting the line removal flag in Workday. There are no known issues with any of the other defined use cases.

Workday – Purchase Order Process:

Once the PO payload reaches Workday, it will trigger a PO revision process. A new PO revision will be created. Once a PO revision has been created using this process, Workday will not allow PO's to be modified. This process will take the previously defined use cases and process them through the Workday encumbrance process. 2 things will happen during this process:

Scenario 1: The PO will fail the encumbrance process, which it will sit in a failed status in Workday.

Scenario 2: The PO will pass the encumbrance process, which will move the PO to a status of approved.

In Scenario 1, once Workday has failed the PO the status is then picked up by the App Connect flow and Maximo will be updated with a status of "Failed in Workday".

In Scenario 2, once Workday has approved the PO the status is then picked up by App Connect flow and Maximo will be updated with a status of Approved.

Data Transformation – Workday to Maximo:

Upon retrieving the data from Workday, App Connect will perform necessary transformations and adjusts the status of the PO depending on the results of the Workday encumbrance process. Transformation rules will be defined to ensure the integrity and consistency of data during the migration process.

Maximo Purchase Order Adjustment Rules:

Once Maximo receives the response back from Workday the following scenarios occur:

Scenario 1: if Workday rejected the PO due to the encumbrance process the end user would need to manually adjust the PO by changing the status back to revised. Maximo will not be sending over an error or rejection reason; users will need to contact procurement to receive the failed reason. Users will have the ability to revise the PO or cancel the PO revision request and still use the existing approved PO.

Scenario 2: if Workday approved the PO due to the encumbrance process the end user will have the ability to revise another PO if they so choose. The process above will be repeated for any amount of revisions Pima will have for the PO.

Security Considerations:

Authentication mechanisms will be implemented to ensure secure access to Workday APIs.

Data encryption protocols will be employed during data transmission between systems to prevent unauthorized access or data breaches.

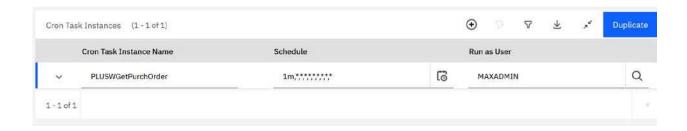
Monitoring and Error Handling:

Logging mechanisms will be implemented within App Connect to track the integration process and monitor for any errors or anomalies.

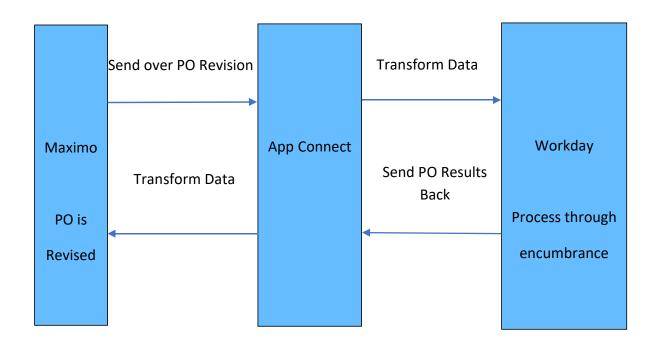
Error handling routines will be established to handle exceptions gracefully and ensure minimal disruption to the integration workflow.

Scheduling:

Maximo will set the Cron Task to pull PO's from Workday every minute, based on their previous requirements for PO scheduling.



High Level Flow Diagram:



ASSUMPTIONS

- Workday is system of record for the Procurement and Encumbrance process.
- No adjustments to the error reporting process, will use out of the box process when reporting errors.
- Workday will not be sending the error or failed reason from the encumbrance process. The user will need to reach out to the procurement team to determine the encumbrance failure.
- Workday custom Validations will not be brought back to Maximo. Instead, the current process
 of running a Workday report for Draft status PR/PO's will be used to track issues on the
 Workday side.
- If the Integration fails to send to workday due to an integration error, the Maximo record will not be modified to indicate an integration error.
- Workday will need to send Maximo a rejection from the encumbrance process to update Maximo with a rejection from Workday.