

Panama Canal Authority

Request for Information - Upgrade to Version 7.6
“on-the-cloud”, New Maximo functionality and
Software and Maintenance Support

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REQUEST FOR EXPRESSIONS OF INTEREST FOR A PROPOSAL upgrade of IBM Maximo, cloud services, IBM Cognos BI and business improvements

ACP is looking to obtain expressions of interest from all possible operators, in order to promote participation and the most ample competition, in compliance with Article 26 of its Acquisitions Regulations.

The Panama Canal Authority (ACP) will start a process for expressions of interest for a proposal and is to be used solely as a reference by interested vendors to prepare a Request for Information (RFI) to provide cloud services, installation/data migration services of Maximo to the latest supported version of the software, and consulting services on IBM Maximo, IBM Cognos BI (to build Maximo reports) and business improvement services based on and ISO-55000.

PARTICIPATION: Interested parties in participating in an international public process should deliver their expressions of interest, by submitting a formal written notification to ACP, according to the letter format contained down below, by not later than **3:00 p.m. (local time) on March 12, 2018**. The expression of interests shall be forwarded via email to:

Mrs. Diana R. Chung
Systems Analyst, Asset Management Office
Vicepresidencia Ejecutiva de Operaciones
Building 1009, La Boca, Panamá, República de Panamá
Email: drchung@pancanal.com, telephone (507) 275-5591

Once the ACP decides to start the Public Tender Process to grant the services, the ACP will publish the corresponding tender documents to the public in general. In addition, the ACP will contact directly those interested parties that have submitted their expressions of interests as described herein.

EVALUATION AND PURPOSE OF THE INFORMATION: The described scope of the project is only a reference to the interested parties to submit their expressions of interest in participating. In case of initiating the Public Tender Process, more detailed information will be included within the terms and conditions of the tender documents. Nothing contained herein, and as a result of this expression of interest request, shall be considered as an invitation, initiation of tender, evaluation or acceptance of a proposal by the ACP, nor constitutes an obligation to the ACP to issue a further Public Tender Process for the proposed services. ACP will consider all expression of interests to be public information.

* * * * *

Revision History

Revisión	Fecha	Descripción de la Revisión	Autor
0		Original	DRChung
1	27-feb-2018	Deadline updated to 5 mar 2018	DRChung
2	1-mar-2018	Deadline updated to 12 mar 2018	DRChung

1. Introduction

The Panama Canal Authority (Autoridad del Canal de Panama – ACP in Spanish) is the entity of the Government of Panama established under Title XIV of the National Constitution with exclusive charge of the operation, administration, management, preservation, maintenance, and modernization of the Canal, as well as its activities and related services, pursuant to legal and constitutional regulations in force, so that the Canal may operate in a safe, continuous, efficient, and profitable manner.

The ACP is seeking to improve and enhance its services, through the upgrade of IBM Maximo, the ACP Enterprise Asset Management System (ACP-SAA), currently in version v.7.1.1.13 to the latest version supporting ACP required modules of IBM Maximo.

This document has been prepared by the ACP and is to be used solely as a reference by interested vendors to prepare a Request for Information (RFI) to provide cloud services, installation/data migration services of Maximo to the latest supported version of the software, and consulting services on IBM Maximo, IBM Cognos BI (to build Maximo reports) and business improvement services based on and ISO-55000.

1.1 Background

MAXIMO was implemented as follows:

Year	Action	Products
2010	Implemented the EAM with the following products in a stand-alone installation	<ul style="list-style-type: none">Maximo 7.1.1.6IBM WebSphere 6.1
2011	Implemented the EAM products with integration to the ACP Oracle e-Business Suite or OEBS (Financials and Human Resources):	<ul style="list-style-type: none">MIF Oracle Adapter 7.1.0.3Maximo Scheduler 7.1.1.0Maximo Transportation Solution 7.1.1.0
2011	Upgraded to Maximo Asset Management 7.1.1.8 and IBM WebSphere 6.1.0.35	<ul style="list-style-type: none">Maximo Asset Management 7.1.1.8IBM WebSphere 6.1.0.35
2014	Implemented TSRM+TAMIT+CMDB and created the ACP Catalog with 253+ offering	<ul style="list-style-type: none">TSRM+TAMIT+CMDB
2014	Upgraded to Maximo Asset Management 7.1.1.13	<ul style="list-style-type: none">Maximo Asset Management 7.1.1.13

The ACP has purchased and have under Support and Software Subscription the licenses to Maximo Asset Management including the following modules:

- IBM Maximo Enterprise Asset Management
- IBM Maximo for Transportation
- IBM Maximo Scheduler
- IBM Maximo Linear
- IBM Maximo Spatial

1.2 Purpose

The purpose of this document is to specify the ACP requirements for the successful move to MAXIMO 7.6 (or the latest version compatible with all ACP required modules of IBM MAXIMO AND CONTROL DESK) and

migration of ACP data and customizations to the cloud as Software as a Service (SaaS) environment, including, but not limited to, current customizations and integrations to other existing ACP systems in the least possible time, starting in the first quarter of 2018. After these migration, the application must be fully operational.

The OFFEROR and ACP shall work together in partnership to have a fully upgraded MAXIMO software to benefit from the latest features, functionality and improved performance available in the latest release.

1.3 Solution Architecture and Scope

Based on the business requirements and the analysis performed by ACP personnel, the organization decided not to migrate the existing implementation of Maximo 7.1 to Maximo 7.6.x but to implement a new Maximo platform on version 7.6 and “migrate” or implement a subset of the existing customizations in the new environment. This decision responds to the following criterias:

- a. ACP existing implementation does is clearly defined and not all of the existing customization are required or desirable in the newer Maximo version.
- b. ACP wishes to leverage some of the out of the box capabilities of Maximo 7.6 that are incompatible with the previous implementation.
- c. ACP can keep historical maintenance records stored and accessible in Maximo 7.1 during the retention period required by the organization, minimizing the need for Data Migration to the new platform.
- d. ACP processes implemented on Maximo 7.1 will be implemented with minimal changes on Maximo 7.6, such that the re-training requirements are minimal.

ACP has decided to take advantage of existing, experienced IBM Maximo on Cloud providers to deploy and maintain the new Maximo 7.6 environments, including all the related services detailed in [1.4 – Scope of Work for Cloud Services](#).

In order to support such new deployment strategy (with Maximo on Cloud), ACP decided to change the integration strategy to the ACP internal systems to a Service Oriented approach, using RESTful Web Services through HTTP or JMS for all integrations besides the Authentication and Data Warehousing integrations, that use the corresponding integration standards (LDAP and SQL), as shown in the architecture diagram below:

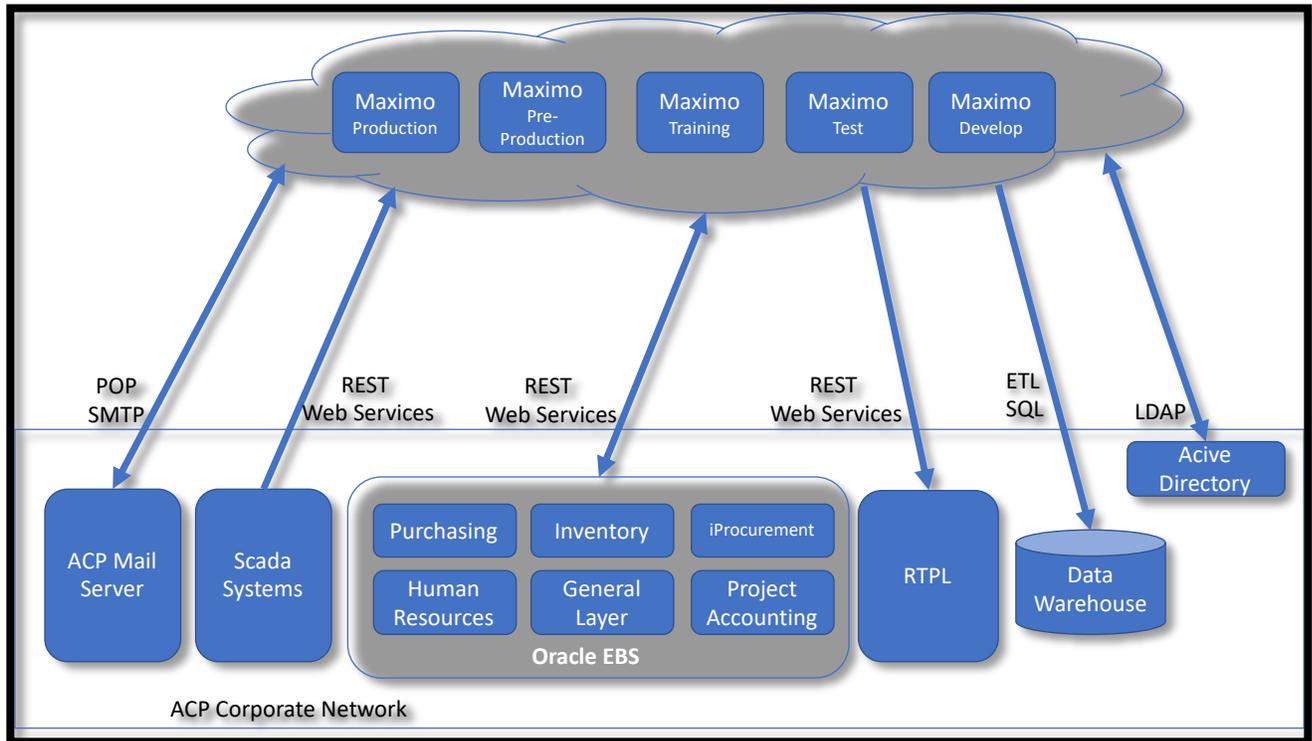


Figure 1 - Integration Architecture

1.4 Maximo on Cloud Services

ACP seeks to engage solutions to provide Maximo on Cloud services. As explained before, ACP will provide the IBM Maximo Software licenses associated with the provided Maximo on Cloud service. This service shall include, but not limited to:

1. An IBM Maximo production environment with the latest supported version that supports all ACP required components, sized to support up to 400 Concurrent Users.
2. An IBM Maximo pre-production environment with the latest supported version that supports all ACP required components, sized to support up to 50 Concurrent Users.
3. An IBM Maximo training environment with the latest supported version that supports all ACP required components, sized to support up to 20 Concurrent Users.
4. An IBM Maximo Quality Assurance environment with the latest supported version that supports all ACP required components, sized to support up to 20 Concurrent Users.
5. An IBM Maximo development environment with the latest supported version that supports all ACP required components, sized to support up to 20 Concurrent Users.
6. At least three non-production instances must be available at all times (training, test and QA). Upon request, the offeror shall be able provide a current pre-production or test instance cloned from production in no more than 1 day.
7. Provide Uninterrupted services on the Production Environment.
8. The provided environments must comply with the Security Requirements specified in [Annex H](#)
9. Infrastructure, operating systems, database and applications full support and maintenance.
10. Cognos BI Server, full support and maintenance.
11. Ticket support
12. 24/7 Platform monitoring
13. Backups for productions environment and non-production environment
14. Step before a migration to production environment

15. Refresh to non-production environments from Production upon request at most twice a month.
16. Save implementation in nonproduction environments configurations and new configurations in-progress
17. Data retention for non-production and production environments
18. Backup and restore in case of disaster recovery for Production environment and non-production environment
19. Disaster recovery plan
20. Hosting in a secure environment
21. Provide Security Updates
22. Implementation of Minor Software Upgrades coordinated with Panama Canal personnel
23. Implementation of Major Software Upgrades coordinated with Panama Canal personnel
24. Flexible and accessible – anywhere, anytime access
25. Provide a mechanism, such as a reporting database, from which to extract data via SQL queries or ETL to the ACP Business Intelligence system.

Providers are invited to bid even if certain of the requirements exposed above are not fully provided. The provider shall include detail description of the provided Maximo on Cloud service scope and service level agreements there are able to propose to ACP.

Offeror's Experience

1. Over 5 years of experience providing Maximo on Cloud services. The OFFEROR shall list, identify, and describe in as much detail and specificity as possible the list of clients for which it performed equivalent services, projects, and works related and relevant to the subject matter and bearing of this bid.
2. The OFFEROR shall provide evidence defining Maximo on Cloud environment managed by the OFFEROR including at least the modules:
 - a. IBM Maximo Enterprise Asset Management
 - b. IBM Control Desk
 - c. IBM Maximo Scheduler
3. OFFEROR shall provide financial stability as demonstrated by its last 2 audited financial statements and current credit references.
4. The OFFEROR shall provide at least two (4) names of the companies, the name of the high-ranking manager of the company who has had direct experience with the referred services.
5. The OFFEROR shall detail the street address, phone number, e-mail address and fax number of its clients previously listed on paragraph 4.
6. The OFFEROR shall provide letters of referral or success stories or both, approved by respective clients, from the clients listed above 4.

1.5 Migrate/Upgrade IBM Maximo to Version 7.6

ACP seeks to engage with a financially stable, experienced, and global CONTRACTOR that delivers complete technical solution to install and migrate customizations to IBM Maximo and IBM Control Desk to the latest supported version, and migrate selective data from the existing IBM Maximo on version 7.1.

Based on those criteria exposed on Solution Architecture and Scope, the offeror shall perform the following activities as part of this engagement (any activity or task not clearly mentioned in the following list will not be considered as part of the scope of work of the future CONTRACTOR):

- a. Analyzed the required migrations vs the Maximo 7.6 native capabilities and recommend adjustment to maximize the use of the enhanced capabilities provided by the newer version of the product. Such analysis should be limited to the scope of the customizations and should not consider significant changes in processes, such major changes will be executed by ACP once the initial deployment of Maximo 7.6 is in production.

- b. Create the detailed project and work plans consistent with ACP project requirements and a contingency plan for the production upgrade process.
- c. Migrate/Implement 85 Customizations to the existing Maximo Applications as detailed in [Annex G](#), including, but not limited to, Custom Fields and Custom Field Classes, Custom MBOs, Custom Applications, Actions, Signature Options and any other element required to achieve functional consistency with the existing Maximo 7.1 environment (considering the limitations detailed by ACP in [Annex G](#)).
- d. Design and Implement a new solution for Emergency Management integrated to the ACP Solicitudes de Servicio application. This is a copy of the standard Maximo Service Request application from the IBM Control Desk
- e. Design and Implement the Integration configuration required to support the integrations detailed in Annex G. As explained in the Annex, ACP requires that all the integrations between the new Cloud based solution and internal ACP solutions/components must be done through Restful Services using either JMS or HTTP transport protocols.
- f. Design and Implement the data Extraction, Transformation and Load processes for the entities listed below:
 - a. Organization (Addresses, Sites)
 - b. Calendars
 - c. Person Groups
 - d. Qualifications
 - e. Crafts
 - f. Premium Pay codes
 - g. Communication Templates
 - h. Conditional Expression
 - i. Classifications
 - j. Component Codes
 - k. Asset
 - l. Location
 - m. Meter
 - n. Failure codes
 - o. Asset templates
 - p. Licenses
 - q. Failure codes and components
 - r. Items components fail codes
 - s. Automation scripts
 - t. Warranty contracts
 - u. Item Master
 - v. Inventory – inventory balance
 - w. Tools – tools balance
 - x. Service Items
 - y. Storerooms
 - z. Job Plan
 - aa. Routes
 - bb. Preventive Maintenance
 - cc. Service
- g. Enable email Listeners for the Service Request, Work Order, Incident and Problem applications
- h. Enable Cognos BI
- i. Update the technical documentation with any changes to the customizations if needed.
- j. The future CONTRACTOR shall resolve the issues found during testing and document all test results.
- k. Provide knowledge transfer to ACP technical team of the methods, techniques used during the upgrade process and that all changes to system setups, profile options and customizations are documented and reviewed together by ACP and the Contractor.
- l. The future CONTRACTOR will provide upgrade and migration documents, check lists, change management documents, issue logs, etc.

- m. The future CONTRACTOR will provide post-production upgrade support for at least six (6) weeks after the production upgrade; it must include an end-of-month closing of the ACP payroll and financial systems
- n. The future CONTRACTOR will provide an upgraded and migrated production instance and at least two non-production instances (test and pre-production).
- o. The future CONTRACTOR will provide Maximo New functionalities Crew management, Mobile Anywhere/Everyplace
- p. The future CONTRACTOR will provide New functionality that replaces existing ACP Customizations
- q. The future CONTRACTOR will provide Training Plan
- r. The future CONTRACTOR will provide Change Management – people –process - tool
- s. The future CONTRACTOR will comply with Business Functions (see [Annex D](#))
- t. The future CONTRACTOR will provide Platform Services
- u. The future CONTRACTOR will provide Operational Services

Offeror's Experience

- 1. More than 15 years of experience in development of business solutions based on Enterprise Asset Management Software Solutions like IBM Maximo or other.
- 2. 10 years of proven experience as a leader in implementation of projects in multiple industries.
- 3. 10 years of experience leading multi-disciplinary teams in similar solution implementations.
- 4. 10 years proven expertise in designing solutions for IBM Tivoli Maximo Asset Manager. The OFFEROR shall list, identify, and describe in as much detail and specificity as possible the list of clients for which it performed equivalent services, projects, and works related and relevant to the subject matter and bearing of this bid.
- 5. Over 5 years of experience in information technology management best practices (ITIL v3) and other industry standards.
Over 5 years of experience in IBM Tivoli Service Request Manager and associated products. The OFFEROR shall list, identify, and describe in as much detail and specificity as possible the list of clients for which it performed equivalent services, projects, and works related and relevant to the subject matter and bearing of this bid.
- 6. The OFFEROR shall provide evidence defining implemented projects handling at least the modules listed on the Background section 1.1
- 7. OFFEROR shall provide financial stability as demonstrated by its last 2 audited financial statements and current credit references.
- 8. The OFFEROR shall provide at least two (4) names of the companies, the name of the high-ranking manager of the company who has had direct experience with the referred services.
- 9. The OFFEROR shall detail the street address, phone number, e-mail address and fax number of its clients previously listed above he OFFEROR shall provide letters of referral or success stories or both, approved by respective clients, from the clients listed above 9.
- 10. Minimum of five (5) years of experience providing MAXIMO upgrade services and implementation of in Maximo 7.5 and 7.6

Qualifications and experience of the Offeror's team

- 1. The OFFEROR shall provide all necessary personnel with adequate skills for the work to be performed.
- 2. The OFFEROR shall identify, and describe in as much detail as possible, the people, entities and organizations that it will involve directly or indirectly in the execution of each phase of this contract.
- 3. The OFFEROR shall identify and describe persons from its organization and the persons from external entities, companies and other organizations that the OFFEROR proposes to use or engage in each phase of this contract. This list shall describe, as a minimum, for each person and organization:
 - a. The name, address, phone number and e-mail address.

- b. The professional occupation, university degrees and academic background at undergraduate, graduate and/or doctoral levels.
- c. Relevant professional certifications and licenses.
- d. Descriptive record of previous three (2) years of experience and performance on jobs, projects and relevant activities related and bearing to the subject matter of this contract. This information shall include:
 - i. Description of the work performed,
 - ii. Industry where the work was performed and
 - iii. Duration of the contract.
 - iv. Description of all duties, functions and responsibilities the person will perform for the execution of each phase of this contract. Include description of supervisory, administrative, decision-making and coordination responsibilities, if any, and indicate the fields of endeavor the person will be working for the contract.
4. The description shall also include the information indicating how that specific person or organization fits in the proposed organizational structure to be utilized for the performance of each phase of this contract.
5. The team shall demonstrate the following certifications:
 - a. Project manager (certification in PMP or PgMP and relevant experience required).
 - b. Implementation Specialist (Technical & Functional) (relevant experience required).
 - c. MAXIMO Architect with functional and process skills (relevant certification and experience required).
 - d. MAXIMO CoE Expert to cover IT processes and competency, Governance skills (e.g. governance related certification and relevant experience required).
 - e. Maximo Quality Assurance Expert (relevant certification required and relevant experience required).

1.6 IBM Cognos Consulting Services

ACP seeks to engage with a financially stable, experienced, and global CONTRACTOR that delivers on-site and remote IBM Cognos consulting services per hours in packages of 160 hours.

ACP will execute the services in packages of 160 hours, that will be requested with 20 Business Days of notice to the future CONTRACTOR, for either on-site or remote services.

ACP expects to require Senior consultants with experience in the design and implementation of Business Intelligence and Reporting solutions based on IBM Cognos, as well as developer experienced in the implementation of Dashboards and Reports using the IBM Cognos technology.

Offeror's Experience

1. Over 5 years of experience providing Cognos consulting services. The OFFEROR shall list, identify, and describe in as much detail and specificity as possible the list of clients for which it performed equivalent services, projects, and works related and relevant to the subject matter and bearing of this bid.
2. OFFEROR shall provide financial stability as demonstrated by its last 2 audited financial statements and current credit references.
3. The OFFEROR shall provide at least two (4) names of the companies, the name of the high-ranking manager of the company who has had direct experience with the referred services.
4. The OFFEROR shall detail the street address, phone number, e-mail address and fax number of its clients previously listed on paragraph 4.
5. The OFFEROR shall provide letters of referral or success stories or both, approved by respective clients, from the clients listed above 4.

Qualifications and experience of the Offeror's team

1. 3+ years of experience.
2. Preferable to have a working knowledge of Work and Asset Management data sets in Maximo
3. Working knowledge of fundamental database modeling and design principles.
4. Solid business analysis skills are highly coveted
5. Working knowledge of the data warehouse life cycle as well as star schema and/or denormalized database design.
6. High proficiency in SQL programming and development.
7. Working knowledge of ETL(Extract, Transform and Load) tools a plus. (i.e. Datastage)
8. Practical or applied understanding of UI/UX(User Experience Design, User Interface Design) design principals and/or data visualization theory.
9. Excellent problem solving, organizational, interpersonal, and oral/written communication skills.
10. Strong presentation and public speaking skills are desired.
11. The ability to manage to multiple project deadlines

1.7 IBM Maximo Improvement and Support Services

ACP seeks to engage with a financially stable, experienced, and global CONTRACTOR that delivers on-site and remote IBM Maximo consulting services per hours according to a Work Order package of hours agreed per request.

ACP will submit a request for effort sizing to the CONTRACTOR, for either on-site or remote services. The contractor shall provide the quote of hours and roles involved in each request and the list of activities and efforts associated with the proposed effort. Upon approval from ACP, the CONTRACTOR will have 10 Business days to allocate the resources to perform the agreed Statement of Work.

Offeror's Experience

1. More than 15 years of experience in development of business solutions based on IBM Software.
2. Over 5 years of experience in information technology management best practices (ITIL v3) and other industry standards.
3. Over 5 years of experience in IBM Tivoli Service Request Manager and associated products.
4. 10 years of proven experience as a leader in implementation of projects in multiple industries.
5. 10 years of experience leading multi-disciplinary teams in similar solution implementations.
6. 15 years proven expertise in designing solutions for IBM Tivoli Maximo Asset Manager. The OFFEROR shall list, identify, and describe in as much detail and specificity as possible the list of clients for which it performed equivalent services, projects, and works related and relevant to the subject matter and bearing of this bid.
7. The OFFEROR shall provide evidence defining implemented projects handling at least the modules listed on [Annex D](#), [Annex E](#).
8. OFFEROR shall provide financial stability as demonstrated by its last 2 audited financial statements and current credit references.
9. The OFFEROR shall provide at least two (2) names of the companies, the name of the high-ranking manager of the company who has had direct experience with the referred services.
10. The OFFEROR shall detail the street address, phone number, e-mail address and fax number of its clients previously listed on paragraph 9
11. The OFFEROR shall provide letters of referral or success stories or both, approved by respective clients, from the clients listed above 9
12. Minimum of five (2) years of experience providing MAXIMO upgrade services in Maximo 7.6

Qualifications and experience of the Offeror's team

ACP expects to require the following profiles:

Maximo and IBM Control Desk Functional Consultants that shall have as a minimum the following qualifications:

1. More than 10 years of experience in development of business solutions based on IBM Maximo and IBM Control Desk.
2. 10 years of proven experience as a leader in implementation of projects in multiple industries.
3. 10 years of experience leading multi-disciplinary teams in similar solution implementations.

Maximo Developer that shall have as a minimum the following qualifications:

1. More than 10 years of experience in development of business solutions based on IBM Software.
2. Over 5 years of experience in IBM Tivoli Service Request Manager and associated products.
3. 10 years of proven experience as a leader in implementation of projects in multiple industries.
4. 10 years of experience leading multi-disciplinary teams in similar solution implementations.

IBM Control Desk developer that shall have as a minimum the following qualifications:

1. More than 10 years of experience in development of business solutions based on IBM Software.
2. Over 5 years of experience in information technology management best practices (ITIL v3) and other industry standards.
3. Over 5 years of experience in IBM Tivoli Service Request Manager and associated products.
4. 10 years of proven experience as a leader in implementation of projects in multiple industries.

2. Language

- 2.1 All data, documents, descriptions, diagrams, books, catalogues, instructions, marking for ready identification of major items of the System and correspondence shall be written in readily comprehensible English language. However, the launch module GUI shall also be available in Spanish (including the user's manual, GUI, and its on-line help).
- 2.2 The personnel of the CONTRACTOR and sub-CONTRACTOR, if any, shall be proficient in English or Spanish (written and spoken) for the purpose of providing instructions, offering of advisory services, guidance and any other submissions as required.

3. Confidentiality of information

Confidentiality Agreement

All data, studies, reports, documents and information concerning the operation and management of the Panama Canal, and anything affecting the same, that is either:

- 3.1 Given by the ACP to the CONTRACTOR in support of contract performance, and marked as confidential by the ACP, or
- 3.2 Generated or produced by the CONTRACTOR during the course of contract performance, shall be confidential and shall not be released or distributed at any time by the CONTRACTOR to third parties, including other clients of the CONTRACTOR, without the prior, explicit consent, in writing, of the Contracting Officer or his/her authorized representative.
- 3.3 Any violation of this provision shall be considered a serious breach of confidence by the ACP and may result in termination of the contract for default and affect negatively the ACP evaluation of the CONTRACTOR's contract performance.
- 3.4 The CONTRACTOR shall sign and deliver ACP's confidentiality agreement according to the requirements defined in this paragraph within seven (7) calendar days after the post-award meeting date.

Disclosure

- 3.5 The OFFEROR agrees that if an actual or potential conflict of interest is discovered after award, the OFFEROR will make a full disclosure in writing to the Contracting Officer. This disclosure shall include a description of actions, which the OFFEROR has taken or proposes to take, after consultation with the Contracting Officer, to avoid, mitigate, or neutralize the actual or potential conflict.

4. Rights in data

Software and related materials

- 4.1 The ACP shall have a nonexclusive license and no title to the intellectual property as a result of the use, under this contract, of all computer software, databases, and documentation prepared, developed, and/or purchased to a third party by the CONTRACTOR before the contract award or developed by the CONTRACTOR for purposes not related to this contract.
- 4.2 All data, analyses, documentation, computer software, databases, models and/or analytical tools first and exclusively produced for the ACP by the CONTRACTOR in the performance of this contract shall become property of the ACP.

Data that embody trade secrets or confidential information

- 4.3 The CONTRACTOR shall refrain from providing data to the ACP that embody trade secrets or are commercial or financial and confidential or privileged, to the extent that such data pertains to items, components, or processes developed at private expense, including minor modifications thereof.
- 4.4 To the extent that the CONTRACTOR must provide such data, it shall be considered subject to restricted rights, and clearly marked as confidential or restricted by the CONTRACTOR. The ACP will not disclose such data to third parties, except that the ACP may disclose the data to other CONTRACTORS participating in the ACP program of which this contract is part, and exclusively for their use in connection with the program-related work. Such disclosures to other CONTRACTORS shall be subject to prohibitions against their further use and disclosure.
- 4.5 To the extent the ACP must provide data to the CONTRACTOR that embody trade secrets or confidential information, such data will be clearly marked as confidential or restricted by the ACP. The CONTRACTOR may not use any confidential or restricted data provided by the ACP for purposes other than work under this contract, and may not reproduce, or otherwise distribute, said data to third parties. The CONTRACTOR will return to the ACP all such data provided to it upon contract completion.

Annex A. Minimum Requirements Checklist

#	Minimum Requirements	Supporting Evidence. Page number on your offer Complies (Y , N)
	Maximo on Cloud Services	
1.	Offeror's Experience	
	Migrate/Upgrade IBM Maximo to Version 7.6	
1.	Offeror's Experience	
2.	Qualifications and experience of the Offeror's team	
	IBM Cognos consulting Services	
1.	Offeror's Experience	
2.	Qualifications and experience of the Offeror's team	
	IBM Maximo Improvement and Support Services	
1.	Offeror's Experience	
2.	Qualifications and experience of the Offeror's team	

Annex B. Economic Proposal Table

OFFERORS are invited to provide a quote for all or some of the lines shown below.

Prices associated to Maximo on Cloud Service

OPTINAL Maximo on Cloud	1a	Maximo on Cloud Production Environment for up to 400 Concurrent Users		Yearly Costs
	1b	Maximo on Cloud Pre-Production environment for up to 50 Concurrent Users		Yearly Costs
	1c	Maximo on Cloud environment for up to 20 Concurrent Environments for Development, Quality and Testing		Yearly Costs
	1d	Maximo on Cloud environment on demand for up to 20 Concurrent Users		Weekly Costs

Prices associated to Migrate/Upgrade Services to version 7.6

OPTIONAL	2	IBM Maximo services to Upgrade/Migrate to Version 7.6		
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Prices associated to IBM Cognos Consulting Services

			Package	Senior Consultant	Developer
OPTIONAL IBM Cognos Services	3A	On-site These amount will be subject to 12.5% tax retention	Hourly	Price per hour	Price per hour
	3B	Travel and all expenses These amount will not be subject to 12.5% retention	Per travel for on-site services		
	3C	Not on-site These amount will not be subject to 12.5% tax retention	Hourly	Price per hour	Price per hour

Prices associated to Maximo Improvement Services

			Package	Functional Consultant	Maximo Developer	Control Desk Developer
OPTIONAL Maximo Improvement Services	4A	On-site These amount will be subject to 12.5% tax retention	Hourly	Price per hour	Price per hour	Price per hour
	4B	Travel and all expenses These amount will not be subject to 12.5% retention	Per travel for on-site services			
	4C	Not on-site These amount will not be subject to 12.5% tax retention	Hourly	Price per hour	Price per hour	Price per hour

Notes:

This price list shall be specified by hourly rate and shall cover any expenses for the period ending no later than September 30th, 2018. These prices shall be valid for at least one (4) year after the final acceptance of the *System*.

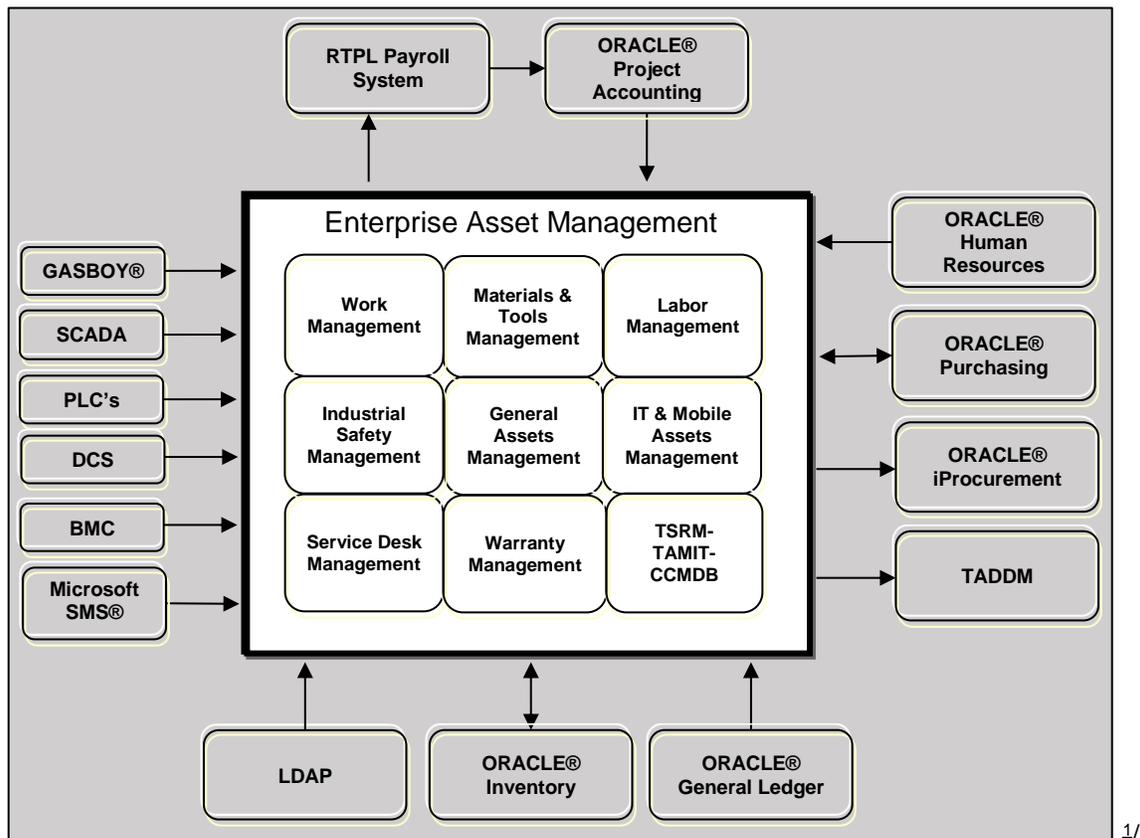
ACP will guarantee a minimum of one hundred and sixty (160) hours for each individual work order for any lines with on-site services

Annex C. Definitions, Acronyms and Abbreviations

- **ACP:** Autoridad del Canal de Panamá (Panama Canal Authority)
- **ACP-SAA:** IBM Tivoli Maximo®
- **DRP:** Disaster recovery plan
- **EAA:** División de Agua
- **EAAA:** Sección de Agua Atlántico
- **EAAP:** Sección de Agua Pacífico
- **EAE:** División de Energía
- **ETL:**(Extract, Transform and Load)
- **GL:** General Ledger
- **GTD:** Generación de Energía
- **IBM:** International Business Machines
- **IT:** Information Technology
- **KPI:** Key Performance Indicators
- **MEA:** Maximo Enterprise Adapter
- **PM:** Preventative Maintenance
- **OEBS:** Oracle E-Business Suite
- **OPM:** División de Mantenimiento de Flotas y Equipos
- **OPMM:** Sección de Mantenimiento Preventivo y Apoyo a Operaciones
- **OPMT:** Sección de Mantenimiento Terrestre
- **OPMR:** Sección de Rehabilitación de Equipos Mayores e Industriales
- **OPMN:** Sección de Ingeniería Arquitectura Naval y Confiabilidad
- **OPE:** División de Esclusas y Mantenimiento de instalaciones
- **OPEM:** Sección de Mantenimiento de Instalaciones y Obras Civiles
- **OPEP:** Sección de Esclusas del Pacífico
- **OPEA:** Sección de Esclusas del Atlántico
- **OPD:** División de Dragado
- **OPDA:** Sección de Apoyo a Operaciones de Dragado
- **OPDD:** Sección de Dragado, Grúas y Remolcadores
- **OPDV:** Sección de Perforación y Voladuras
- **OPDR:** Sección de Administración de Recursos y Planta
- **OPR:** División de Tránsito
- **OPP:** División de Protección y Respuesta a Emergencias
- **OS:** Operating System
- **RH:** Vicepresidencia Ejecutiva de Recursos Humanos
- **RHEL:** Red Hat Enterprise Linux
- **RTPL:** ACP Payroll System
- **SAA:** Sistema de Administración de Activos (Asset Management System)
- **SICME-AMP:** Locks machinery control system
- **SICME-EDCS:** Firefighting control system
- **SME:** Subject Matter Expert
- **TI:** Information and Technology Vice-presidency
- **ToR:** Terms of Reference
- **UAT:** User Acceptance Testing

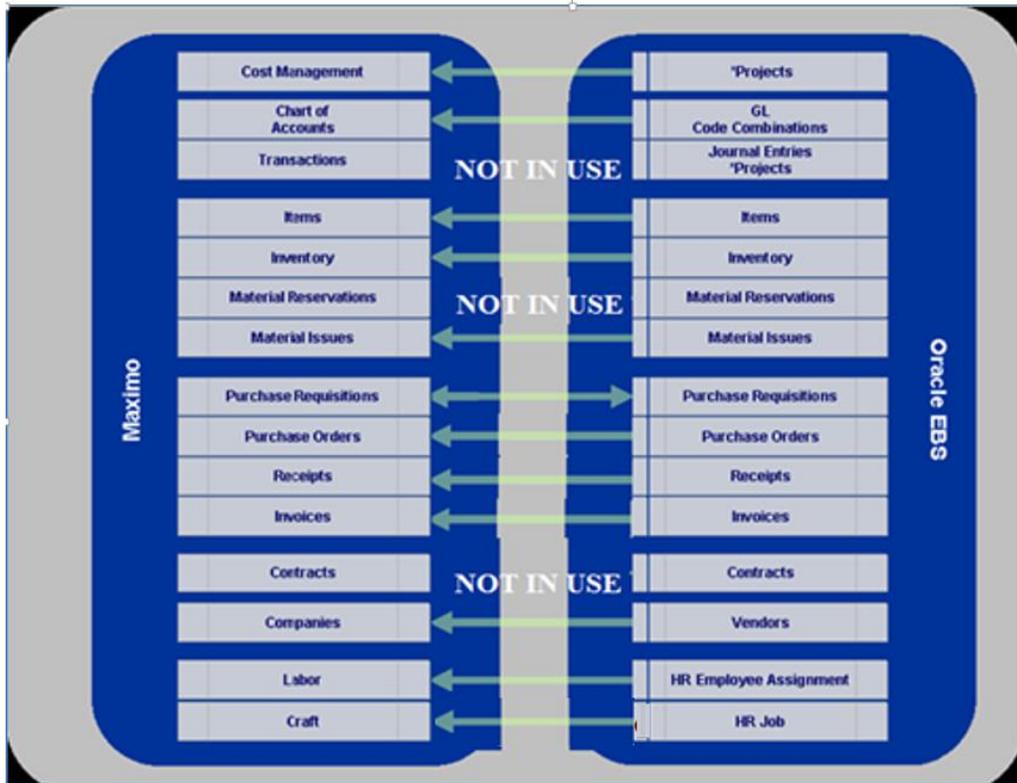
Annex D. ACP Current environment

1.1 MAXIMO current installation diagram



Oracle E Business Suite to Maximo and viceversa

¹ Note: This diagram only shows general scope of the process, it is not intended to be used as the scope of this document



2/

² Note: This diagram only shows general scope of the process, it is not intended to be used as the scope of this document

1.2 Users

- 3,523+ active users.
- 350+ concurrent user sessions.
- 114,000 requests per day
- 1GB data transfer per day
- First level users (2):
 - These are power users that should have access to any module of the System.
- Authorized Users - Functional (27):
 - These are functional users that have access to all EAM functional applications, Work orders management, assets, inventory, PM and Purchasing modules.
 - Also, view all KPI's and reports.
- Limited Users (3,076):
 - These are limited users that may initiate requests and view status of same.
 - May have access to some other modules of the System.
 - May view some KPI's and reports.
- TI users (451):
 - These are users that manage ICD modules exclusively.
 - May view some IT assets KPI's and reports.

ACP expects that some of the above users will have mixed access to one or several functionalities on the System:

- Mobile users that may use mobile devices, as PC workstations and handheld devices, to read and enter data.
- Transportation users that will manage mobile assets data for the Division of Fleet and Equipment Maintenance.

1.3 Usage: Inventory and Assets

- 67,609 items in main inventory
- 358 storerooms
- 16,885 operating locations records
- 179,561+ assets
- 4,718 job plans and 24,524 PM's and 1,021craft records
- 28,110+ monthly work orders
- 2 Organizations and 26 sites across the isthmus

1.4 ACP Current site installation information

ACP is characterized for developing and implementing solutions with the highest and most solid available technology, reason why the proposal must present products or solutions in line with this foundation.

The current installed MAXIMO products are EAM, TSRM+TAMIT+CMDB and TRANSPORTATION, with integrations to other ACP systems (OEBS, RTPL Payroll, SCADA, DCS).

1.5 Maximo Applications

The following are the modules and applications currently in use:

Modules	Applications*
<ul style="list-style-type: none"> • Administration 	<ul style="list-style-type: none"> • Sets • Organizations <ul style="list-style-type: none"> ○ 2 Organizations ○ 24 Sites • Calendars • Resources <ul style="list-style-type: none"> ○ Labor – integrated with OEBS-HR ○ Qualifications ○ People – integrated with OEBS-HR ○ Person Groups ○ Crafts – integrated with OEBS-HR • Bulletin Board • Communication Templates • Reporting <ul style="list-style-type: none"> ○ KPI Manager ○ Report Administration • Deployed Assets • Reconciliation • Conditional Expression Manager • Classifications • Ci Types • Work View • Survey Management • Maintenance Codes (Tr) • The Query Table
<ul style="list-style-type: none"> • Assets 	<ul style="list-style-type: none"> • Assets • Locations • Meters – integrated with meter readings from industrial equipment control systems such as SCADA, SICME, PLCs • Meter Groups • Condition Monitoring

Modules	Applications*
	<ul style="list-style-type: none"> • Failure codes • Deployed Assets • Assets (Tr) • Assets (SP) • Asset Templates (Tr)
<ul style="list-style-type: none"> • Contracts 	<ul style="list-style-type: none"> • Warranty Contracts • Software Contracts
<ul style="list-style-type: none"> • Data Import (Tr) 	<ul style="list-style-type: none"> • Fuel Transactions Import (Tr) integrated with Gasboy®
<ul style="list-style-type: none"> • Financial 	<ul style="list-style-type: none"> • Currency Codes • Chart of Accounts • Cost Management – integrated with OEBS Project Accounting
<ul style="list-style-type: none"> • Integration 	<ul style="list-style-type: none"> • Object Structures • Publish Channels • Invocation Channels • Enterprise Services • Web Services Library • End Points • External Systems • Integration Modules • Message Tracking • Message Reprocessing • Integrations with OEBS and industrial equipment control systems
<ul style="list-style-type: none"> • Inventory 	<ul style="list-style-type: none"> • Item Master – integrated with OEBS • Item Master – also in use for user defined part number from Vendors • Service Items • Tools • Stocked Tools • Inventory • Issues and Transfers • Condition Codes • Storerooms • Item Master (Tr) • Issues and Transfers (Tr) • Fuel Issues (Tr)
<ul style="list-style-type: none"> • Planning 	<ul style="list-style-type: none"> • Job Plan • Routes • Safety • Hazards • Precautions

Modules	Applications*
	<ul style="list-style-type: none"> • Lock Out/Tag Out • Safety Plans
<ul style="list-style-type: none"> • Planning and Scheduling 	<ul style="list-style-type: none"> • Scheduler
<ul style="list-style-type: none"> • Preventive Maintenance 	<ul style="list-style-type: none"> • Preventive Maintenance • Master PM
<ul style="list-style-type: none"> • Purchasing (integrated with OEBS) 	<ul style="list-style-type: none"> • Purchase Requisitions – PR can be created in Maximo and sent to OEBS and PR can be created in OEBS and sent to Maximo • Purchase Orders – PO can be created in Maximo to handle rotating items. PO created from a PR created in OEBS and related to a Work Order is copied to Maximo • Receiving – Integrated with OEBS for rotating items • Invoices - Integrated with OEBS • Companies - Integrated with OEBS • Company Master (no integration with OEBS)
<ul style="list-style-type: none"> • Release 	<ul style="list-style-type: none"> • Releases • Deployment • Change Implementation Schedule • Process Request
<ul style="list-style-type: none"> • Script Management 	<ul style="list-style-type: none"> • Automation Scripts
<ul style="list-style-type: none"> • Security 	<ul style="list-style-type: none"> • Security Groups • Users - integrated with Active Directory
<ul style="list-style-type: none"> • Service Request Manager Catalog 	<ul style="list-style-type: none"> • Offering Catalog ⁽¹⁾ • View Catalog Request • Offerings • Catalogs • Ticket Templates • Global Search <p>(1) 253 offerings were configured in status ACTIVE with all their associated elements: person groups, service groups, domains, classifications, attributes, relationships, roles, actions, action groups, communication templates, job plans, ticket templates, approval workflows, automation scripts, response plans, catalog and security groups.</p>
<ul style="list-style-type: none"> • Self Service 	<ul style="list-style-type: none"> • Service Requests <ul style="list-style-type: none"> ○ Create Service Request ○ View Service Request ○ Search Solution • Self Service Center

Modules	Applications*
	<ul style="list-style-type: none"> • Survey Request
<ul style="list-style-type: none"> • System Configuration 	<ul style="list-style-type: none"> • Platform Configuration
<ul style="list-style-type: none"> • Work Orders 	<ul style="list-style-type: none"> • Work Order Tracking with workflow activated • Work Order Tracking (Tr) • Quick Reporting • Assignment Manager • Service Requests • Labor Reporting – integrated with the ACP Payroll and Timekeeping System (RTPL)
<ul style="list-style-type: none"> • Change 	<ul style="list-style-type: none"> • Change window Calendar • Process Request • ACP Changes • Changes • Change Implementation Schedule • Blackout Periods • Impact Analysis Configuration • Activities and Task
<ul style="list-style-type: none"> • IT Infrastructure 	<ul style="list-style-type: none"> • Process Requests • ACP Configuration Items
<ul style="list-style-type: none"> • Self Service 	<ul style="list-style-type: none"> • Process Request • Solutions • Ticket Templates • ACP Incidents • ACP Problems • ACP Service Requests • ACP Activities and Tasks
<ul style="list-style-type: none"> • Service Level 	<ul style="list-style-type: none"> • Service Level Agreements • Service Groups • Response Plans
<ul style="list-style-type: none"> • System 	<ul style="list-style-type: none"> • Platform Configuration <ul style="list-style-type: none"> ○ System Properties ○ Logging ○ Domains ○ Database Configuration ○ Application Designer ○ Action ○ Roles ○ Escalation ○ Workflow Designer ○ Workflow Administration

Modules	Applications*
	<ul style="list-style-type: none"> ○ Workflow Launcher ○ Cron Task Setup ○ E-Mail Listeners ○ Instant Messaging Configuration
<ul style="list-style-type: none"> • Migration 	<ul style="list-style-type: none"> • Migration manager • Migration groups

1.6 Current Environment Technical Specs

Component	ACP Current Tools
1. Servers	Unix-based (Sun), Intel-based (HP/Dell)
2. Server operating systems	Windows Server 2003 R2 and above, Sun Solaris 10 and above
3. Work stations	Intel-based (example, HP, Dell, Lenovo)
4. Workstation operating systems	Windows 8 and above
5. Database	Oracle 11g (v 11.1) RDBMS and above
6. App Server and/or Web Server	IBM WebSphere 6.1 on Unix
7. Browsers	Microsoft Internet Explorer 9.0 and above, Mozilla 48.0 , Chrome 53.0
8. Corporate email system	Office 365
9. Collaboration and document Management System	Microsoft Office SharePoint Server 2010 and above
10. Office productivity tool	Microsoft Office 2010 and above, Office 365
11. Directory	Microsoft Active Directory with functional level of Windows Server 2012 R2
12. File Management	NFS Filesystem
13. ERP, Payroll, BMC	Oracle E-Business Suite 12.1.3 / RTPL (in-house),BMC 10.5

Annex E. MAXIMO Installed Applications List Versions

MAXIMO Installed Applications List Versions
IBM Tivoli Configuration Items 7.2.1.4 Build 201306242212 DB Build V7214-00
Data Integration and Context Menu Service Configuration 7.1.1.7 Build 20090911D2 DB Build V7117-07
SRM Solution 7.2.1.6 Build 201306241943 DB Build V7216-02
SRM Self Service Center 7.2.1.0 Build 201008192131 DB Build V7210-01
IBM Tivoli Configuration Items Content 7.2.1.0 Build 201008131846 DB Build V7210-01
SRM Service Desk Content - Best Practices 7.2.1.0 Build 201008192131 DB Build V7210-10
Service Desk Integration MEA 7.2.1.00 Build 201008192131 DB Build V7200-03
IBM Tivoli Change Management Content 7.2.1.0 Build 201008131846 DB Build V7210-10
SRM Service Catalog Base 7.2.1.6 Build 201306241943 DB Build V7216-02
IBM Tivoli Asset Management for IT 7.2.2.0 Build 201008111155 DB Build V7220-15
Transportation 7.1.1.0-20150528-1011 Build 20091209-0841 DB Build V7120-08 HFDB Build HF7120-20
SRM Problem Management 7.2.1.6 Build 201306241943 DB Build V7216-00
Base Services 7.1.1.13-LA20141015-1456 Build 20140514-1318 DB Build V71113-19 HFDB Build HF71113-02
SRM Incident Management 7.2.1.6 Build 201306241943 DB Build V7216-00
SRM Service Request Management 7.2.1.6 Build 201306241943 DB Build V7216-01
SRM Search 7.2.1.6 Build 201306241943 DB Build V7216-00
IBM Tivoli Release Management Content 7.2.1.0 Build 201008181852 DB Build V7210-04
IBM Tivoli Change Management 7.2.1.4 Build 201306242212 DB Build V7214-02
IBM Tivoli Common Process Components Content 7.2.1.0 Build 201008131846 DB Build V7210-03
IBM Maximo for Service Provider 7.1.1.2 Build 20100408-1049 DB Build V7122-06 HFDB Build HF7122-06
SRM Survey Management 7.2.1.6 Build 201306241943 DB Build V7216-00
IBM Tivoli Common Process Components 7.2.1.4 Build 201304241005 DB Build V7214-01
SRM Screen Capturer 7.2.1.6 Build 201306241943 DB Build V7210-01
IMBot SRM Service Desk 7.2.0.0 Build 201008192131 DB Build V7200-03
ISM Content Installer 7.2.1.3 Build 201111110245 DB Build V7213-01

MAXIMO Installed Applications List Versions**IBM Tivoli Configuration Management Content 7.2.1.0 Build 201008131846 DB Build V7210-06****IBM Tivoli Release Management 7.2.1.4 Build 201306242212 DB Build V7214-00****Oracle Adapter 7.1.0.3 Build 20101130-1632 DB Build V7100-20****IBM Tivoli Integration Composer 7.2.2.0 Build 201008110625 DB Build V7210-02****Scheduler 7.1.1.0-20140425-1117 Build 20100219-1725 DB Build V7110-33 HFDB Build HF7110-04****SRM SLA Hold 7.2.1.6 Build 201306241943 DB Build V7216-00****SRM Service Desk 7.2.1.6 Build 201306241943 DB Build V7216-02****Advanced Workflow Components 7.2.1.4 Build 201304241005 DB Build V7214-00****SRM Service Desk Content - Classification 7.2.1.0 Build 201008192131 DB Build V7210-03****IBM Tivoli Configuration Management 7.2.1.4 Build 201306242212 DB Build V7214-01****IBM Tivoli UI Widgets 7.2.1.4 Build 201306242212 DB Build V7214-01**

Annex F. MAXIMO Integrations

1. Publish Channels

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
1	Labor Hours Reporting for Payment	MAXIMO	RTPL	The ACP requires that labor reporting records be sent to Payroll System via a JMS queue.	ACP_EMPNUM, ENTERBY, ENTERDATE, FCPROJECTID, FCTASKID, FINISHTIME, LABTRANSID, MEMO, PAYMENTTRANSDATE, PREMIUMPAYCODE, PREMIUMPAYHOURS, REFWO, REGULARHRS, STARTDATE, STARTTIME, TICKETCLASS, TICKETID, TRANSID, EAUDITUSERNAME	Skip non-work transactions Skip non-approved labor transactions	ACP_LABPAYHRS
2	ACP Asset Meter Tracking	MAXIMO	INDUSTRIAL	The ACP requires that custom object Acp Asset Meter Tracking in IBM MAXIMO be sent to Industrial System via a JMS Queue.	ACP_AMTID, SOURCESYS, ASSETNUM, METERNAME, SOURCEKEY, SITEID, POINTNUM, ORGID, LOCATION, RECTYPE		

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
3	Workorder Status	MAXIMO	ORACLE EBS	The ACP requires that status changes of work orders in IBM MAXIMO be sent to Oracle EBS via a JMS Queue.	CHANGEDATE, WOSTATUSID, CHANGEBY, ORGID, SITEID, STATUS, STATUSDATE, WONUM, WORKORDERID, LOCATION, TRANSID, TRANSSEQ	Skip non iProcurement WOs	ACP_WOSTATUS

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
4	OA Purchase Requisitions to iProcurement	MAXIMO	ORACLE EBS	The ACP requires that purchase requisitions in IBM MAXIMO be sent to Oracle EBS via a JMS Queue.	ACP_ALPHACODE, ACP_ERROR, ACP_PR_EXTERNAL, CHANGEBY, CHANGEDATE, PRDESCRIPTION, EXCHANGEDATE, EXCHANGERATE, INTERNAL, ISSUEDATE, OA_GLCURRENCY, OA_GLCURRENCYTYPE, OA_USEPRNUM, ORGID, PRNUM, REQUIREDDATE, SHIPTO, SHIPTOATTN, SITEID, ACP_LINEERROR, ACP_SUBINVENTORY, PRLDESCRIPTION, GLCREDITACCT, GLDEBITACCT, ITEMNUM, LINETYPE, OA_CATEGORYID, OA_CHARGE_ORG, OA_DEST_TYPE_CODE, OA_EXPENDTYPE, OA_IFACEMESSAGE, OA_IFACESTATUS, OA_ITEM_ID, OA_PROJECTID, OA_TASKID, ORDERQTY, ORDERUNIT, PRLINENUM, REFWO, REQDELIVERYDATE, REQUESTEDBY, STORELOC, UNITCOST, TRANSID, TRANSSEQ	Skips non APPR PRs Skip Maximo Internal PRs	MXPR

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
5	SYNONYMDOMAIN Object	MAXIMO	ORACLE EBS	The ACP requires that SYNONYMDOMAIN Object in IBM MAXIMO be sent to Oracle EBS via a JMS Queue.	DOMAINID, MAXVALUE, VALUE		
6	FINCNTRL Object	MAXIMO	ORACLE EBS	The ACP requires that FINCNTRL Object in IBM MAXIMO be sent to Oracle EBS via a JMS Queue.	FINCNTRLID, TASKID, PROJECTID, SITEID		
7	PR Object	MAXIMO	ORACLE EBS	The ACP requires that PR Object in IBM MAXIMO be sent to Oracle EBS via a JMS Queue.	PRNUM, SITEID, STATUS		
8	PRLINE Object	MAXIMO	ORACLE EBS	The ACP requires that PRLINE Object in IBM MAXIMO be sent to Oracle EBS via a JMS Queue.	PRNUM, SITEID, ACP_PRLINEIDIPROC, ACP_SC_IDIPROC		
9	ITEM Object	MAXIMO	ORACLE EBS	The ACP requires that ITEM Object in IBM MAXIMO be sent to Oracle EBS via a JMS Queue.	ITEMNUM, ROTATING		

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
10	LOCATION Object	MAXIMO	ORACLE EBS	The ACP requires that LOCATION Object in IBM MAXIMO be sent to Oracle EBS via a JMS Queue.	LOCATION, SITEID, ORGID		
11	INVENTORY Object	MAXIMO	ORACLE EBS	The ACP requires that INVENTORY Object in IBM MAXIMO be sent to Oracle EBS via a JMS Queue.	ITEMNUM, BINUM, ORGID, SITEID		
12	PERSON Object	MAXIMO	ORACLE EBS	The ACP requires that PERSON Object in IBM MAXIMO be sent to Oracle EBS via a JMS Queue.	PERSONID		

2. Enterprise Services

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
1	ACP Meter Readings and Condition Monitoring	INDUSTRIAL	MAXIMO	The ACP requires that the transaction of Meter Readings or Condition Monitorings in PLC, SICME and SCADA system to be sent to an IBM MAXIMO REST Web service/JMS Queue .	ASSETNUM, CHANGEBY, CHANGEDATE, DOROLLOVER, INSPECTOR, METERNAME, NEWREADING, NEWREADINGDATE, OBSERVATION, ORGID, SITEID, TRANSID, TRANSSEQ		MXMETERDATA
2	ACP Gasboy to Maximo Fuel Transactions	INDUSTRIAL	MAXIMO	The ACP requires that the fuel transaction in GASBOY system to be sent to an IBM MAXIMO REST Web service/JMS Queue.	ACP_INVALIDDATE, ACP_METERNAME, ACP_METERREADING, ACP_TRANSLINENUM, ACTUALDATE, ASSETNUM, BINNUM, ITEMNUM, QUANTITY, SITEID, STORELOC, UNITCOST, TRANSID, TRANSSEQ	Skip wrong asset numbers not defined in MAXIMO Skip asset with no meters in MAXIMO.	ACP_FUELISSUES

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
3	OA Employees	ORACLE EBS	MAXIMO	The ACP requires that Employees from Oracle EBS to be sent to an IBM MAXIMO REST Web service/JMS Queue.	LABORCODE, ORGID, STATUS, WORKLOCATION, WORKSITE, CRAFT, DEFAULTCRAFT, INHERIT, SKILLLEVEL, ACP_EMPLNUM, ADDRESSLINE1, ADDRESSLINE2, ADDRESSLINE3, BIRTHDATE, CITY, DEPARTMENT, EMPLOYEETYPE, FIRSTNAME, HIREDATE, LANGUAGE, LASTNAME, LOCALE, LOCATION, LOCATIONSITE, POSTALCODE, PRIMARYCALNUM, PRIMARYCALORG, PRIMARYEMAIL, PRIMARYPHONE, REGIONDISTRICT, STATEPROVINCE, P_STATUS, TITLE, TRANSEMAILELECTION, WFMAILELECTION, TRANSID, TRANSSEQ		MXLABOR

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
4	OA GL Components	ORACLE EBS	MAXIMO	The ACP requires that GL Components from Oracle EBS to be sent to an IBM MAXIMO REST Web service/JMS Queue.	ACTIVE, COMPTXT, COMPVALUE, EXTERNALREFID, GLORDER, ORGID, OWNERSYSID, TRANSID, TRANSSEQ		MXGLCOMP
5	OA Chart of Accounts	ORACLE EBS	MAXIMO	The ACP requires that Chart of Accounts from Oracle EBS to be sent to an IBM MAXIMO REST Web service/JMS Queue.	ACTIVE, EXTERNALREFID, GLACCTYPE, GLCOMP01, GLCOMP02, GLCOMP03, GLCOMP04, ORGID, OWNERSYSID, TRANSID, TRANSSEQ		MXCOA
6	OA Projects	ORACLE EBS	MAXIMO	The ACP requires that Projects from Oracle EBS to be sent to an IBM MAXIMO REST Web service/JMS Queue.	ACTUALCOST, ALLOCATEDCOST, ASOFDATE, BUDGETCOST, BUDGETID, BUDGETTYPE, BURDENEDCOST, CHANGEBY, CHANGEDATE, COMMITTEDCOST, DESCRIPTION, ENDDATE, EXTERNALREFID, FCSTATUS, FCTYPE, ISCHARGEABLE, OA_CHARGE_ORG, ORGID, OWNERSYSID, PARENTTASKID,		MXPROJ

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
					PROJECTID, PROJECTTYPE, REMAININGCOST, SITEID, SOURCESYSID, STARTDATE, TASKID, TASKLEVEL, TASKTYPE, TEMPLATEID, TRANSSEQ		
7	OA Items	ORACLE EBS	MAXIMO	The ACP requires that Items from Oracle EBS to be sent to an IBM MAXIMO REST Web service/JMS Queue.	CAPITALIZED, COMMODITY, COMMODITYGROUP, CONDITIONENABLED, DESCRIPTION, LONGDESC2, ITEM_EXTERNALREFID, INSPECTIONREQUIRED, ISKIT, ISSUEUNIT, ITEMNUM, ITEMSETID, ITEMTYPE, LOTTYPE, OA_IFACESTATUS, OA_IFACETIMESTAMP, ORDERUNIT, OUTSIDE, ITEM_OWNERSYSID, PRORATE, ROTATING, ITEM_SOURCESYSID, SPAREPARTAUTOADD, STATUS, TRANSID, TRANSSEQ		MXITEM

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
8	OA Inventory	ORACLE EBS	MAXIMO	The ACP requires that Inventory from Oracle EBS to be sent to an IBM MAXIMO REST Web service/JMS Queue.	CATEGORY, IV_CONTROLACC, EXTERNALREFID, EXT_ACTIVE, IV_INVCOSTADJACC, ISSUEUNIT, ITEMNUM, LOCATION, MAXLEVEL, MINLEVEL, OA_IFACESTATUS, OA_IFACETIMESTAMP, OA_IO_FLAG, OA_PURCH_FLAG, ORDERUNIT, IV_ORGID, OWNERSYSID, SITEID, SOURCESYSID, IC_AVGCOST, IC_CONTROLACC, IC_INVCOSTADJACC, IC_LASTCOST, IC_STDCOST, TRANSID, TRANSSEQ		MXINVENTORY
9	OA Inventory Balances	ORACLE EBS	MAXIMO	The ACP requires that Inventory Balances from Oracle EBS to be sent to an IBM MAXIMO REST Web service/JMS Queue.	BINNUM, CURBAL, ITEMNUM, LOCATION, OA_LOC_SEGMENTS, ORGID, BAL_OWNERSYSID, PHYSCNT, SITEID, TRANSID, TRANSSEQ		MXINVBAL

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
10	OA Inventory Issue	ORACLE EBS	MAXIMO	The ACP requires that Inventory Issues from Oracle EBS to be sent to an IBM MAXIMO REST Web service/JMS Queue.	ACTUALCOST, ACTUALDATE, BINNUM, CONDRATE, CONVERSION, CURRENCYCODE, ENTERBY, ENTEREDASTASK, EXCHANGERATE, ISSUETO, ISSUETYPE, IT7, IT8, IT9, ITEMNUM, ITEMSETID, LINECOST, LINETYPE, LOCATION, ORGID, OUTSIDE, OWNERSYSID, PACKINGSLIPNUM, PLUSPBILLPRICE, PLUSTHASWARRANTY, QTYREQUESTED, QTYRETURNED, QUANTITY, REFWO, ROLLUP, SENDERSYSID, SITEID, SOURCESYSID, SPAREPARTADDED, STORELOC, TOSITEID, TRANSDATE, UNITCOST, TRANSID, TRANSSEQ		MXINVISSUE

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
11	OA Purchase Requisitions Line Error Messages	ORACLE EBS	MAXIMO	The ACP requires that pr line error messages when an error occurs during Oracle EBS import process of PRs from MAXIMO to be sent to an IBM MAXIMO REST Web service/JMS Queue	ACP_ERROR, CHANGEBY, CHANGEDATE, ORGID, PRNUM, SITEID, STATUS, STATUSDATE, STATUSIFACE, ACP_LINEERROR, OA_IFACESTATUS, OA_IFACETIMESTAMP, PRLINENUM, TRANSID, TRANSSEQ		ACP_PR_IN

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
12	OA Purchase Requisitions Status Changes	ORACLE EBS	MAXIMO	The ACP requires that status changes during Oracle EBS import process of PRs from MAXIMO to be sent to an IBM MAXIMO REST Web service/JMS Queue	ACP_ALPHACODE, ACP_ERROR, ACP_PR_EXTERNAL, BILLTO, BILLTOATTN, BUYAHEAD, CHANGEBY, CHANGEDATE, CURRENCYCODE, PRDESCRIPTION, EXCHANGEDATE, EXCHANGERATE, FOB, FREIGHTTERMS, HISTORYFLAG, INCLUSIVE1, INCLUSIVE2, INCLUSIVE3, INCLUSIVE4, INCLUSIVE5, PR_INSPREQ, INTERNAL, ISSUEDATE, NOVENDOR, MEMO, OA_GLCURNCY, OA_GLCURNCYTYPE, OA_USEPRNUM, ORGID, PAYMENTTERMS, PAYONRECEIPT, PR10, PRID, PRIORITY, PRNUM, PRREQUESTEDBY, REQUIREDDATE, SENDERSYSID, SHIPTO, SHIPTOATTN, SITEID, STATUS, STATUSDATE, STATUSIFACE, SUPERVISOR, TOTALCOST, TOTALTAX1, TOTALTAX2,		MXPR

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
					TOTALTAX3, TOTALTAX4, TOTALTAX5, ACP_LINEERROR, ACP_SUBINVENTORY, ASSETNUM, CATEGORY, CHARGESTORE, COMMODITY, COMMODITYGROUP, CONVERSION, CONVERTTOCONTRACT, CONVERTTORFQ, PRLDESCRIPTION, ENTERBY, ENTERDATE, ENTEREDASTASK, FCPROJECTID, FCTASKID, PRC_FINCNTRLID, GLCREDITACCT, GLDEBITACCT, INSPECTIONREQUIRED, ISDISTRIBUTED, ISSUE, ITEMNUM, ITEMSETID, LINECOST, LINECOST2, LINETYPE, LOADED COST, LOCATION, MKTPLCITEM, MODELNUM, OA_CATEGORYID, OA_CHARGE_ORG, OA_DEST_TYPE_CODE, OA_EXPENDTYPE, OA_IFACEMESSAGE,		

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
					OA_IFACESTATUS, OA_IFACETIMESTAMP, OA_ITEM_ID, OA_PROJECTID, OA_TASKID, ORDERQTY, ORDERUNIT, PRL_ORGID, PRLPRPCARDNUM, POLINEID, POLINENUM, PONUM, POSITEID, PRLINEID, PRLINENUM, PRORATESERVICE, RECEIPTREQD, REFWO, REMARK, REQDELIVERYDATE, REQUESTEDBY, STORELOC, TAX1, TAX2, TAX3, TAX4, TAX5, UNITCOST, VENDELIVERYDATE, COSTLINENUM, COSTFINCNTRLID, PRC_FCTASKID, FINCNTRLID, COSTGLCREDITACCT, COSTGLDEBITACCT, COSTLINECOST, COSTLOADED COST, PRC_ORGID, PERCENTAGE, PRCOSTID, PRCOSTLINEID, QUANTITY, TRANSID, TRANSSEQ		

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
13	OA Purchase Requisitions from iProcurement	ORACLE EBS	MAXIMO	The ACP requires that purchase requisition from Oracle EBS to be sent to an IBM MAXIMO REST Web service/JMS Queue.	ACP_ALPHACODE, CHANGEBY, CHANGEDATE, CURRENCYCODE, PRDESCRIPTION, FOB, FREIGHTTERMS, HISTORYFLAG, PR_INSPREQ, INTERNAL, ISSUEDATE, MEMO, ORGID, PAYMENTTERMS, PAYONRECEIPT, PRIORITY, PRNUM, PRREQUESTEDBY, REQUIREDDATE, SENDERSYSID, SHIPTO, SHIPTOATTN, SITEID, STATUS, STATUSDATE, STATUSIFACE, TOTALCOST, VENDOR, ACP_PRDISTIDIPROC, ACP_PRLINEIDIPROC, ACP_RAZONIPROC, ACP_SC_IDIPROC, ACP_SC_NUMBEREQIPROC, ACP_STATUSLINESIPROC, ACP_STATUSPRIPROC, ACP_WORKORDERID, PRLDESCRIPTION, ENTERBY, ENTERDATE, ENTEREDASTASK, FCPROJECTID, FCTASKID, PRC_FINCNTRLID,		ACP_MXPR_IPRO

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
					GLCREDITACCT, GLDEBITACCT, INSPECTIONREQUIRED, ISDISTRIBUTED, ISSUE, ITEMNUM, LINECOST, LINETYPE, LOADED COST, OA_CHARGE_ORG, OA_DEST_TYPE_CODE, OA_EXPENDTYPE, ORDERQTY, ORDERUNIT, PRL_ORGID, PRLINENUM, PRORATESERVICE, RECEIPTREQD, REFWO, REQDELIVERYDATE, REQUESTEDBY, UNITCOST, COSTLINENUM, COSTGLCREDITACCT, COSTGLDEBITACCT, COSTLINECOST, COSTLOADED COST, PRC_ORGID, PERCENTAGE, QUANTITY, TRANSID, TRANSSEQ		
14	OA Work Order Material Planning	ORACLE EBS	MAXIMO	The ACP requires that material planning from Oracle EBS to be sent to an IBM MAXIMO REST	WPI_ORGID, SITEID, WONUM, WORKORDERID, ACP_ORIGEN_ORACLE, ACP_PRDISTIDIPROC, ACP_PRLINEIDIPROC, DESCRIPTION, DIRECTREQ, HOURS, ISSUETO,		ACP_MX_WPITEM

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
				Web service/JMS Queue.	ITEMNUM, ITEMQTY, ITEMSETID, LINECOST, LINETYPE, MKTPLCITEM, ORDERUNIT, ORGID, RATE, RATEHASCHANGED, REQUESTBY, REQUIREDATE, UNITCOST, VENDOR, WPITEMID, TRANSID, TRANSSEQ		
15	OA Work Order Tool Planning	ORACLE EBS	MAXIMO	The ACP requires that tool planning from Oracle EBS to be sent to an IBM MAXIMO REST Web service/JMS Queue.	COMMODITY, COMMODITYGROUP, DESCRIPTION, DESCRIPTION_LD2, INSPECTIONREQUIRED, ISSUEUNIT, ITEMNUM, ITEMSETID, ITEMTYPE, ORDERUNIT, OUTSIDE, PRORATE, STATUS, TRANSID, TRANSSEQ		MXTOOLITEM

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
16	OA Work Order Services Planning	ORACLE EBS	MAXIMO	The ACP requires that service planning from Oracle EBS to be sent to an IBM MAXIMO REST Web service/JMS Queue.	COMMODITY, ORGID, SITEID, WONUM, WORKORDERID, ACP_DELETEORACLE, ACP_ORIGEN_ORACLE, ACP_PRDISTIDIPROC, ACP_PRLINEIDIPROC, CATALOGCODE, CONDITIONCODE, DESCRIPTION, DIRECTREQ, HOURS, ISSUETO, ITEMNUM, ITEMQTY, ITEMSETID, LINECOST, LINETYPE, LOCATION, MANUFACTURER, MKTPLCITEM, MODELNUM, ORDERUNIT, WPS_ORGID, PLUSLINEPRICE, PLUSPLISTPRICE, PLUSTACCOMP, PLUSTCOMP, PLUSTCONTRACTNUM, PLUSTFAILURE, PLUSTHASWARRANTY, PLUSTPOS, PLUSTREASON, PLUSTWARRVALUE, PR, PRLINENUM, RATE, RATEHASCHANGED, REQUESTBY,		ACP_MX_WPSERVICE

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
					REQUESTNUM, REQUIREDATE, STORELOCSITE, UNITCOST, UNITCOSTHASCHANGED, VENDOR, VENDORPACKCODE, VENDORPACKQUANTITY, VENDORUNITCOST, VENDORWAREHOUSE, WPITEMID, WPM1, WPM2, WPM3, WPM4, WPM5, WPM6, TRANSID, TRANSSEQ		
17	OA Work Order Delete Planning Lines	ORACLE EBS	MAXIMO	The ACP requires that deleted PRs lines from Oracle EBS to be sent to an IBM MAXIMO REST Web service/JMS Queue.	ACP_DELETEORACLE, ACP_ORIGEN_ORACLE, DESCRIPTION, DIRECTREQ, HOURS, ISSUETO, ITEMNUM, ITEMQTY, LINECOST, LINETYPE, MKTPLCITEM, ORDERUNIT, ORGID, RATE, RATEHASCHANGED, REQUESTBY, REQUIREDATE, SITEID, UNITCOST, VENDOR, WONUM, WPITEMID, TRANSID, TRANSSEQ		ACP_WPITEM

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
18	OA Purchase Orders	ORACLE EBS	MAXIMO	The ACP requires that Purchase Order from Oracle EBS to be sent to an IBM MAXIMO REST Web service/JMS Queue.	BILLTO, CHANGEBY, CHANGEDATE, CONTACT, CONTRACTREFNUM, CONTRACTREFREV, CURRENCYCODE, PODESCRIPTION, EXCHANGEDATE, EXCHANGERATE, FOB, FREIGHTTERMS, ORDERDATE, ORGID, OWNERSYSID, PAYMENTTERMS, PONUM, POTYPE, PRIORITY, PURCHASEAGENT, REQUIREDDATE, SHIPTO, SHIPVIA, SITEID, STATUS, STATUSDATE, STATUSIFACE, VENDOR, CONVERSION, DESCRIPTION, ENTERBY, ENTERDATE, GLCREDITACCT, GLDEBITACCT, INSPECTIONREQUIRED, ISSUE, ITEMNUM, LINECOST, LINETYPE, MODELNUM, OA_IFACESTATUS, OA_IFACETIMESTAMP, ORDERQTY, ORDERUNIT,	Skip any POs not in APPR status	MXPO

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
					PLIN5, POLINENUM, PRLINENUM, PRNUM, RECEIVEDQTY, REQDELIVERYDATE, POL_SHIPTO, STORELOC, TAXED, UNITCOST, PL_VENDELIVERYDATE, COSTLINENUM, COSTGLCREDITACCT, COSTGLDEBITACCT, PERCENTAGE, TRANSID, TRANSSEQ		
19	OA Receipts	ORACLE EBS	MAXIMO	The ACP requires that Receipts from Oracle EBS to be sent to an IBM MAXIMO REST Web service/JMS Queue.	ACCEPTEDQTY, ACTUALCOST, ACTUALDATE, CONVERSION, CURBAL, CURRENCYCODE, CURRENCYLINECOST, CURRENCYUNITCOST, DESCRIPTION, ENTERBY, EXCHANGERATE, EXT_RCV_COST, INSPECTED, ISSUETYPE, IT10, IT7, ITEMNUM, ITEMSETID, LINECOST2, LINECOSTALREADYRECVD, LINETYPE, LOADED COST, MODELNUM,		MXRECEIPT

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
					OA_IFACESTATUS, OA_IFACETIMESTAMP, OWNERSYSID, POLINECOST, POLINENUM, PONUM, POSITEID, POUNITCOST, PRORATED, QTYTORECEIVE, RECEIPTQUANTITY, RECEIVEDUNIT, REJECTQTY, REMARK, SENDERSYSID, SITEID, SOURCESYSID, TOBIN, TRANSDATE, TRANSID, TRANSSEQ		
20	OA Invoices	ORACLE EBS	MAXIMO	The ACP requires that Invoices from Oracle EBS to be sent to an IBM MAXIMO REST Web service/JMS Queue.	CHANGEDATE, DISCOUNT, DOCUMENTTYPE, EXTERNALREFID, INVOICEDATE, INVOICENUM, ORGID, PAID, SITEID, STATUS, STATUSDATE, STATUSIFACE, TOTALCOST, VENDOR, VENDORINVOICENUM, OA_IFACESTATUS, OA_IFACETIMESTAMP, TRANSID, TRANSSEQ		MXINVOICE

#	Name	Source System	Destination System	Description	Service input parameters	Integration requirements	Actual Object Structure
21	OA Vendors	ORACLE EBS	MAXIMO	The ACP requires that Vendors from Oracle EBS to be sent to an IBM MAXIMO REST Web service/JMS Queue.	ADDRESS1, ADDRESS2, ADDRESS3, ADDRESS4, APCONTROLACC, CHANGEBY, CHANGEDATE, COMPANY, CURRENCYCODE, CUSTOMERNUM, DISABLED, FAX, FOB, FREIGHTTERMS, INSPECTIONREQUIRED, NAME, OA_PAYSITE_FLG, OA_PURCHSITE_FLG, ORGID, PAYMENTTERMS, PHONE, TYPE, CC_CONTACT, EMAIL, FAXPHONE, OA_DISABLED, OA_EXTERNALREFID, POSITION, VOICEPHONE, TRANSID, TRANSSEQ		MXVENDOR
22	BMC Asset Downtime Report	BMC	MAXIMO	ACP requires that Asset Downtime Report from BMC to be sent to an IBM MAXIMO REST Web service/JMS Queue.	ASSETNUM, SITEID, ISRUNNING		ACPASSETBMC

Applications cloned to be later customized

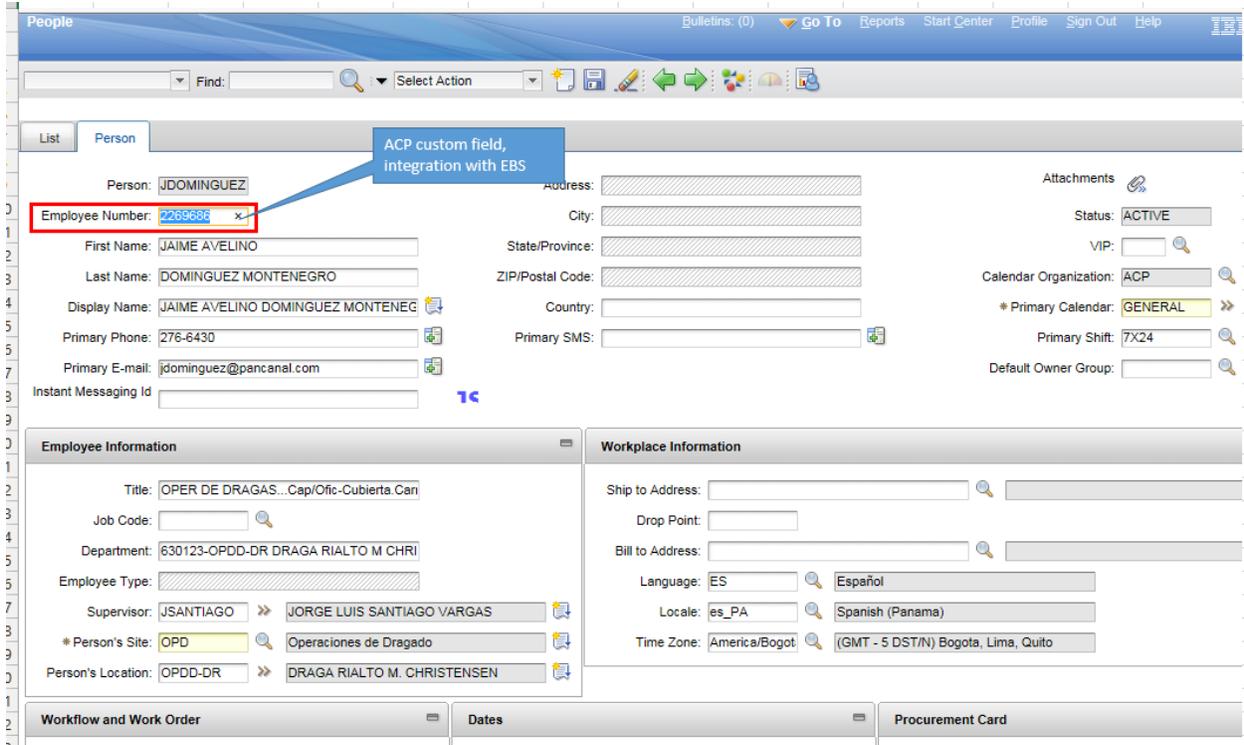
APP	DESCRIPTION	ORIGINALAPP	MAXOBJECT
ACPACTIVIT	ACP Activities and Tasks	ACTIVITY	WOACTIVITY
ACP_CHANGE	ACP Changes	CHANGE	WOCHANGE
ACP_WOTRAC	ACP Work Order Tracking	WOTRACK	WORKORDER
WONONWFLOW	Administrative Works	WOTRACK	WORKORDER
ACP_PRB	ACP Problems	PROBLEM	PROBLEM
ACP_INC	ACP Incidents	INCIDENT	INCIDENT
ACP_PM	ACP Preventive Maintenance	PM	PM
SRMSSCTR	Self Service Center	VIEWSR	SR
VIEWAPPRSR	View Approval Service Requests	VIEWSR	SR
ACPISSUE	ACP Massive Deliveries	INVISSUE	LOCATIONS
ACPWFADMIN	ACP Bulk Reassignment	WFADMIN	WFINSTANCE
ACP_CI	ACP Configuration Items	CI	CI
ACPLABREP	ACP Labor Reporting	LABREP	LABTRANS
ACP_SR	ACP Service Requests	SR	SR
ACPQRNONWF	ACP In Service Maintenance	QUICKREP	WORKORDER

MODULE	APPLICATION	TYPE	OBJECT	TITLE	JAVA CLASS	Number of Lines	Inherits from
Assets	Assets	Java Object Class	MODDOWNTIMEHIST	Modify Downtime History	acp.app.asset.virtual.ModDowntimeHistSetExtended Java class on Asset and Work Order Tracking applications to get a unique control number when the operation needs to execute the function of Report down Time (out of service) of an Asset for both "Downtime Id" and "Uptime Id".	19	ModDowntimeHistSet
Assets	Assets	Java Field Class	DOWNTIMEREPORT-ACP_DOWNTIMEID	Control Number	acp.app.asset.virtual.FldAssetDowntimeIdExtended Java class on Asset and Work Order Tracking applications to get a unique control number when the operation needs to execute the function of Report down Time (out of service) of an Asset for both "Downtime Id" and "Uptime Id".	115	MboValueAdapter
Assets	Assets	Java Field Class	ASSET-GLACCOUNT	GL Account	custAcp.ACP_AssetGl Java class to assign Project and Task from GL Account value	72	FldPartialGLAccount
Assets	Assets	Java Crontask Class	COSTROLLUP	Cost Rollup Crontask	com.acp.costrollup.CostRollupCron Replaces Asset Cost Rollup report usage	200	SimpleCronTask implements GenericLogger
Assets	Assets	Java Integration Class	ACPASSETBMC	ACP Ent. Serv. Down Time Report (BMC)	com.acp.iface.migexits.AcpDownTimeReportExit Java Class of a Web Enterprise Service in MAXIMO to change ISRUNNIG flag (UP or DOWN) in an ASSET and record transactions in the system using ASSET and DOWTIMEREPORT objects.	267	UserExit
Financial	Chart of Accounts	Java Crontask Class	ProjTaskToGL	Project And Task To GL Account	com.acp.util.ACPCuentasCronTask Java Class for the cron task ProjTaskToGL to make the conversion of projects and tasks accounts (GLAccount), and that the account is reflected in the system in a time span of 15 minutes. SR120173		SimpleCronTask
Financial	Chart of Accounts	Java Integration Class	MXPROJ_FROA12	OA Projects	com.acp.iface.app.financial.CustFinancialControlIn Java class to skip transaction if FINCNTRL exists in External System	94	UserExit
Inventory	Inventory	Java Application Class	INVENTOR	Inventory	com.acp.beans.AcpReorderpadBean Java class to fix dialog "Reorder Item" in Inventory Application to copy standard cost from INV storeroom to unit cost for item.	61	ReorderpadBean
Inventory	Inventory	Java Field Class	INVENTORY-STDCOST	Standard Cost	com.acp.app.inventory.custFldInventoryStdCost Automatically fill the standazrd costo of the part line numeber	48	FldInventoryStdCost

MODULE	APPLICATION	TYPE	OBJECT	TITLE	JAVA CLASS	Number of Lines	Inherits from
Inventory	Inventory	Java Integration Class	MXINVISSUE_FROA12	OA Inventory Issue	com.acp.iface.migexits.AcpMxInvIssueExit Java class to take into consideration if there is a unit conversion set-up for an item in MAXIMO and then make the conversion units. SR145968 - SR218720	218	UserExit
Inventory	Inventory	Java Integration Class	MXITEM_FROA12	OA Items	com.acp.iface.app.item.CustItemIn Java class to skip transaction if ITEM exists in External System	65	UserExit
IT Infrastructure	Process Requests	Java Field Class	PMCOMSR-ACP_SLAREMT	Acp_slaremt	custAcp.ACP_FldSla Java class to calculate the actual % of an Service Level Agreements Remaining Time	66	MboValueAdapter
Other	System	Java Application Class	LYBRARY	System Library	com.acp.beans.ACPTkSolutionBean, com.acp.beans.AcpSolutionSeachBean Java class to fix dialog "Search Solution" to only search active solutions, omit the SR descriptions in solution search and delete redundant rows in the solution details. SR117877	31,	TkSolutionBean,
Security	Security Groups	Java Application Class	ACP_SECROL	ACP Security Roles	com.acp.securityroles.SecurityRolesAppBean		
Security	Security Groups	Java Application Class	USER	ACP Security Roles	com.acp.securityroles.UserRolesDataBean		
Service Desk	Incidents	Java Field Class	INCIDENT-ACP_SLAREMT	Acp_slaremt	custAcp.ACP_FldSla Java class to calculate the actual % of an Service Level Agreements Remaining Time	66	MboValueAdapter
Service Desk	Problems	Java Field Class	PROBLEM-ACP_SLAREMT	Acp_slaremt	custAcp.ACP_FldSla Java class to calculate the actual % of an Service Level Agreements Remaining Time	66	MboValueAdapter
Service Desk	Service Requests	Java Field Class	SR-ACP_SLAREMT	Acp_slaremt	custAcp.ACP_FldSla Java class to calculate the actual % of an Service Level Agreements Remaining Time	66	MboValueAdapter
Service Desk	Service Requests	Java Field Class	TICKET-ACP_SLAREMT	Acp_slaremt	custAcp.ACP_FldSla Java class to calculate the actual % of an Service Level Agreements Remaining Time	66	MboValueAdapter
Service Desk	Service Requests	Java Crontask Class	ACPPmAdhocSolutionCron	Carry over adhoc solutions from tickets to formal solution base	custAcp.AcpPmAdhocSolutionCron	202	SimpleCronTask
Work Orders	Labor Reporting	Java Application Class	ACPLABREP	ACP Labor Reporting	com.acp.beans.custLabTransAppBean, com.acp.beans.ACPLabTransReverseBean Java class for a new dialog "ACP Reverse Labor Transaction" in ACP Labor Reporting to correct labor reporting, generating a new negative record for approval. SR108096	49,	LabTransAppBean ,
Work Orders	Labor Reporting	Java Field Class	LABTRANS-LABORCODE	Labor	acp.app.labor.FldLabTransLaborcodeExtended	73	FldLabTransLaborcode

MODULE	APPLICATION	TYPE	OBJECT	TITLE	JAVA CLASS	Number of Lines	Inherits from
					Java class to set Shift Start Time in Labor Reporting		
Work Orders	Work Order Tracking	Java Field Class	WORKORDER-GLACCOUNT	GL Account	custAcp.ACP_WoGI	73	FldPartialGLAccount
					Java class to assign Project and Task from GL Account value		
Work Orders	Labor Reporting	Java Field Class	LABTRANS-DAILYTIME	Total Daily Time	com.acp.app.labor.CustFldLaborTotalDailyTime Calculate the total labor daily time per person	32	MboValueAdapter
Work Orders	Labor Reporting	Java Field Class	LABTRANS-TOTHETC	Total Extra Hour / TC	com.acp.app.labor.CustFldLaborTotalHeTc Calculate the total Compensatory and Extra dail time by Person	31	MboValueAdapter
Work Orders	Work Order Tracking	Java Integration Class	ACP_MX_WPITEM	Integración Planeación de Materiales iProcurement OT Máximo	com.acp.iface.migexits.AcpWPItemExit Java class to delte the line tiem type 'direct purchase' to avoid duplicate of the line this user-exit wil delete the line item generated by the job plan that is exactly the same as the line item copied from iProcurement	194	UserExit

1. Application People



People

Person: JDOMINGUEZ

Employee Number: 2269688 x

First Name: JAIME AVELINO

Last Name: DOMINGUEZ MONTENEGRO

Display Name: JAIME AVELINO DOMINGUEZ MONTENEGRO

Primary Phone: 276-6430

Primary E-mail: jdominguez@pancanal.com

Instant Messaging Id

Address:

City:

State/Province:

ZIP/Postal Code:

Country:

Primary SMS:

Attachments

Status: ACTIVE

VIP:

Calendar Organization: ACP

* Primary Calendar: GENERAL

Primary Shift: 7X24

Default Owner Group:

Employee Information

Title: OPER DE DRAGAS...Cap/Ofic.-Cubierta.Cari

Job Code:

Department: 630123-OPDD-DR DRAGA RIALTO M CHRI

Employee Type:

Supervisor: JSANTIAGO >> JORGE LUIS SANTIAGO VARGAS

* Person's Site: OPD >> Operaciones de Dragado

Person's Location: OPDD-DR >> DRAGA RIALTO M. CHRISTENSEN

Workplace Information

Ship to Address:

Drop Point:

Bill to Address:

Language: ES Español

Locale: es_PA Spanish (Panama)

Time Zone: America/Bogot (GMT - 5 DST/N) Bogota, Lima, Quito

Workflow and Work Order **Dates** **Procurement Card**

Database configuration

SERVICENAME	OBJECTNAME	ATTRIBUTENAME	TITLE	PERSISTENT	MAXTYPE	LENGTH
PERSON	PERSON	ACP_EMPLNUM	Employee Number	1	ALN	30

2. Application Asset:

Function Code: EQ4 (to be used by GUPC)

Critical System: LOCOMOTOR (Use to report KPI critical systems)

Fixed Asset: 48727 (ACF_FIXEDASSET)

End of Life section (Display Maximo end of life Maximo fields)

Project: 27627 (EQ1)

Task: OPE MAN LOC (EQ2)

ACF_FIXEDASSET

New ACP tab ACP -

ACP_ASSETCOSTS.LABCOSTS

ACP_ASSETCOSTS.MATCOSTS

ACP_ASSETCOSTS.SERV COSTS

ACP_ASSETCOSTS.TOOLCOSTS

ACP_ASSETCOSTS.YTDCOSTS

Fiscal Year	Labor Costs	Material Costs	Service Costs	Tool Costs	YTD Costs
2013	23,156.83	11,863.76	0.00	0.00	35,020.59
2014	21,786.86	87,046.14	0.00	0.00	108,833.00
2015	30,860.14	73,124.03	0.00	0.00	104,014.17
2016	22,973.04	24,432.31	0.00	0.00	47,405.35
2017	17,478.23	5,943.16	0.00	0.00	23,419.39

Report Downtime

To change the asset's current status from UP to DOWN or DOWN to UP, select Change Status. To record the start and end of the asset's downtime, which leaves the asset in its current status, select Report Downtime.

Asset: LO100 Locomotora #100, modelo M2000

Asset Up?

Downtime Report

Change Status
 Control Number: 414,315
 Status Date: 10/30/17 08:01:00
 Downtime Code:

Report Downtime
 Start Date:
 End Date:
 Hours:
 Downtime Code:

Downtime Type

Operational
 Non-operational

OK Cancel

Report Downtime

To change the asset's current status from UP to DOWN or DOWN to UP, select Change Status. To record the start and end of the asset's downtime, which leaves the asset in its current status, select Report Downtime.

Asset: 1880 Windows XP Operating System

Asset Up?

Downtime Report

Change Status
 Status Date: 10/30/17 9:02 AM
 Downtime Code:

Report Downtime
 Start Date:
 End Date:
 Hours:
 Downtime Code:

Downtime Type

Operational
 Non-operational

OK Cancel

Report Downtime

To change the asset's current status from UP to DOWN or DOWN to UP, select Change Status. To record the start and end of the asset's downtime, which leaves the asset in its current status, select Report Downtime.

Asset: REMES01 ELECTRICAL - COMMUNICATION & NAV EQUIP

Asset Up?

Downtime Report

Change Status
 Control Number: 400,859
 Status Date: 9/12/17 15:28:36
 Downtime Code:
 Change By: D.CHUNG_SAA
 Reported By:
 Memo:

Report Downtime
 Start Date:
 End Date:
 Hours:
 Downtime Code:
 Change By: D.CHUNG_SAA
 Reported By:
 Memo:

Downtime Type

Operational
 Non-operational

Manage Downtime History

Asset: REMES01 ELECTRICAL - COMMUNICATION & NAV EQUIP
 Site: AFE

Downtime ID	Uptime ID	Start Date	Start Work Order	Order End Date	End Workorder	Dow ntme
29,630	29,681	10/21/13 09:50:34	195141	10/21/13 10:04:00	195141	0:13

Select Records:

Details

Downtime: 0:13
 Start Date: 10/21/13 09:50:34
 End Date: 10/21/13 10:04:00
 Start Work Order: 195141
 End Workorder: 195141
 Start Code:
 End Code:
 Change By: LCA.TUY
 Reported By:
 Memo:

Start Operational Type **End Operational Type**

Operational Operational
 Non-operational Non-operational

OK Cancel

Database configuration

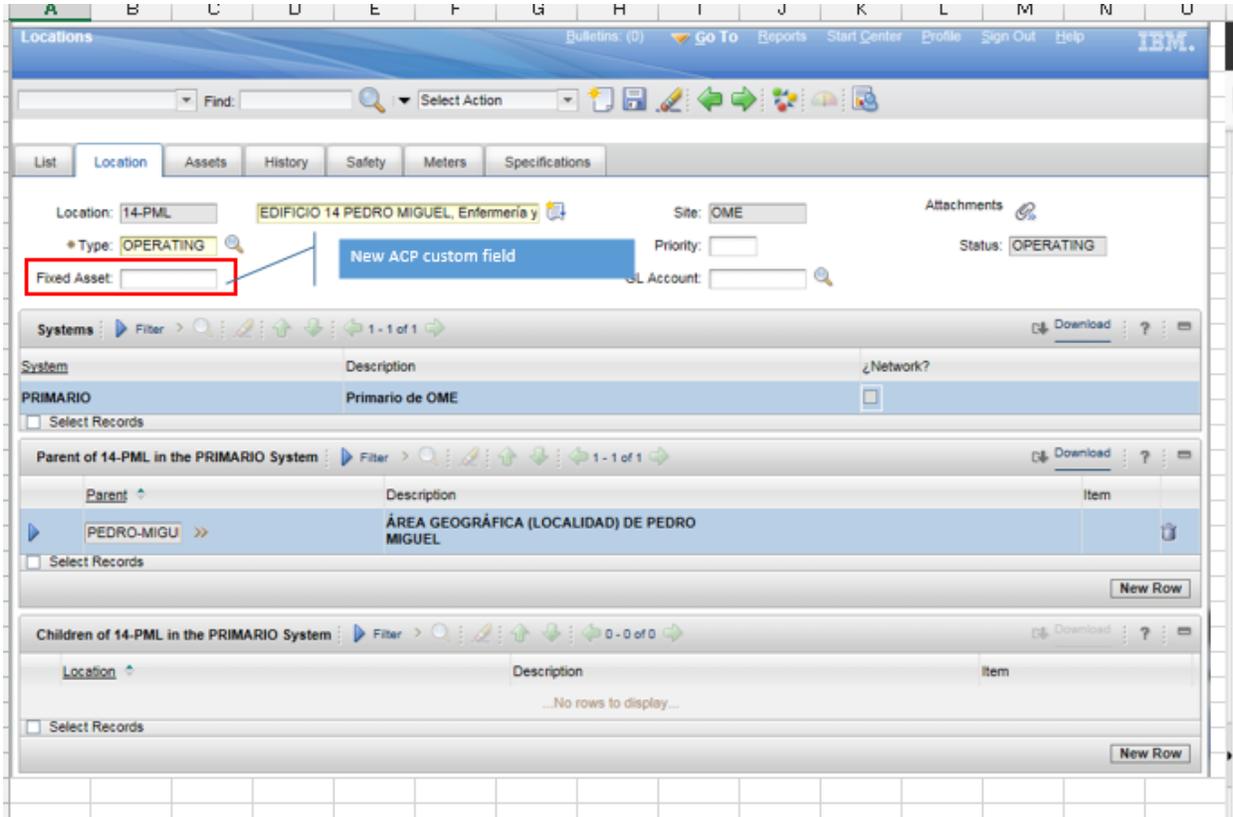
SERVICENAME	OBJECTNAME	ATTRIBUTENAME	TITLE	PERSISTENT	MAXTYPE	LENGTH
ASSET	ASSET	ACP_FIXEDASSET	Fixed Asset	1	ALN	15
ASSET	ASSET	ACP_LOSTREV	Lost Revenue/hour	1	AMOUNT	10
ASSET	ASSET	ACP_PROJECT	Project	1	ALN	50
ASSET	ASSET	ACP_TASK	Task	1	ALN	50
ASSET	DOWNTIMEREPORT	ACP_DOWNTIMEID	Control Number	0	INTEGER	12
ASSET	MODDOWNTIMEHIST	ACP_DOWNTIMEID	Downtime Id	0	INTEGER	12
ASSET	MODDOWNTIMEHIST	ACP_UPTIMEID	Uptime Id	0	INTEGER	12
ASSET	PLUSTALIASVIEW	ACP_FIXEDASSET	Fixed Asset	1	ALN	15
ASSET	PLUSTALIASVIEW	ACP_LOSTREV	Lost Revenue/hour	1	AMOUNT	10
ASSET	PLUSTALIASVIEW	ACP_PROJECT	Project	1	ALN	50
ASSET	PLUSTALIASVIEW	ACP_TASK	Task	1	ALN	50

Application: Asset

Workflows: none

Java Classes: acp.app.asset.virtual.FldAssetDowntimeIdExtended
 acp.app.asset.virtual.ModDowntimeHistExtended
 acp.app.asset.virtual.ModDowntimeHistSetExtended

3. Application Locations



The screenshot displays the IBM Maximo 'Locations' application. The main form shows the following details:

- Location:** 14-PML (EDIFICIO 14 PEDRO MIGUEL, Enfermería y)
- Site:** OME
- Type:** OPERATING
- Status:** OPERATING
- Fixed Asset:** (highlighted with a red box and a blue callout box labeled 'New ACP custom field')

The system hierarchy is as follows:

- System:** PRIMARIO (Primario de OME)
- Parent of 14-PML in the PRIMARIO System:** PEDRO-MIGU (ÁREA GEOGRÁFICA (LOCALIDAD) DE PEDRO MIGUEL)
- Children of 14-PML in the PRIMARIO System:** (No rows to display)

Database configuration

SERVICENAME	OBJECTNAME	ATTRIBUTENAME	TITLE	PERSISTENT	MAXTYPE	LENGTH
LOCATION	LOCATIONS	ACP_FIXEDASSET	Fixed Asset	1	ALN	15

4. Application : ACP Systems of Critical Asset - ACP custom

ACP Systems of Critical Assets Bulletins: (0) Go To Reports Start Center Profile Sign Out Help IBM.

Select Action

TABLE TITLE Filter 1 - 20 of 32366 Download

Asset	Critical System	Monthly Downtime	Monthly Scheduled Hours	Year-Month	Organization	Site
▶ VEH.FL.06686	AUTOSTIP	0:00	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06687	AUTOSTIP	0:31	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06688	AUTOSTIP	244:11	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06689	AUTOSTIP	0:30	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06690	AUTOSTIP	0:12	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06691	AUTOSTIP	0:08	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06800	AUTOSTIP	720:00	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06801	AUTOSTIP	368:28	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06802	AUTOSTIP	202:16	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06803	AUTOSTIP	466:34	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06804	AUTOSTIP	23:56	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06805	AUTOSTIP	0:12	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06806	AUTOSTIP	27:13	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06807	AUTOSTIP	0:00	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06808	AUTOSTIP	58:08	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06809	AUTOSTIP	0:18	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06810	AUTOSTIP	0:00	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06811	AUTOSTIP	0:10	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06812	AUTOSTIP	244:19	720:00	11/1/13	ACP	MFE
▶ VEH.FL.06813	AUTOSTIP	0:00	720:00	11/1/13	ACP	MFE

Select Records

New Row

Database Configuration

Attribute	Description	Type	Length	Scale	Required
ACP_SYSTEMSDO WNTIMEID	Acp_systemsdowntimeid	INTEGER	12	0	Y
ASSETNUM	Asset Number	UPPER	12	0	N
CRITSYSTEM	Code to group most critical assets for reporting by critical systems availability.	ALN	10	0	N
MONTHDOWNTIME	Total Downtime for asset on each month period.	DURATION	8	0	N
MONTHHOURS	Total scheduled hours for asset on each month period.	DURATION	8	0	N
MONTHPERIOD	Year-Month of downtime period.	DATE	4	0	N
ORGID	Organization	UPPER	8	0	N
SITEID	Site identifier	UPPER	8	0	N

Signature options: Duplicate, Delete

- Application : ACP Year to Date Historical Cost - ACP custom

ACP Year to Date Historical Costs Bulletins: (0) Go To Reports Start Center Profile Sign Out Help IBM.

Select Action

YTD Costs Filter 1 - 15 of 65213 Download

Site	Asset Number	Fiscal Year	Labor Costs	Material Costs	Service Costs	Tool Costs	YTD Costs
▶ OME	CV725	2014	1,335.61	0.00	0.00	0.00	1,335.61
▶ OME	CV725	2015	1,253.99	515.50	0.00	0.00	1,769.49
▶ OME	CV725	2016	2,574.43	195.19	0.00	0.00	2,769.62
▶ OME	CV725	2017	1,962.66	0.00	0.00	0.00	1,962.66
▶ OME	DE067	2013	110.91	0.00	0.00	0.00	110.91
▶ OME	DE067	2014	79.23	0.00	0.00	0.00	79.23
▶ OME	DE067	2015	93.01	0.00	0.00	0.00	93.01
▶ OME	DE067	2016	53.67	0.00	0.00	0.00	53.67
▶ OME	TR579	2013	560.50	0.00	0.00	0.00	560.50
▶ OME	TR579	2014	1,170.26	9,751.35	0.00	0.00	10,921.61
▶ OME	TR579	2015	1,336.44	2.96	0.00	0.00	1,339.40
▶ OME	TR579	2016	1,385.31	293.16	0.00	0.00	1,678.47
▶ OME	TR579	2017	869.12	0.00	0.00	0.00	869.12
▶ OME	VVA211	2013	2,181.58	0.00	0.00	0.00	2,181.58
▶ OME	VVA211	2014	21,662.94	44.70	0.00	0.00	21,707.64

Select Records **New Row**

Details

Fiscal Year: 2014 ×

Record UID: 6,266

Site: OME

Asset Number: CV725

Labor Costs: 1,335.61

Material Costs: 0.00

Service Costs: 0.00

Tool Costs: 0.00

YTD Costs: 1,335.61

New Row

Signature Options: Duplicate, delete

Database Configuration Object **ACP_ASSETCOSTS**

The ACP Asset Costs are hold in a Site level object called ACP_ASSETCOSTS. It holds the yearly cost per concept, considering:

- Labor Costs
- Material Costs
- Service Costs
- Tool Cost
- Year to Date Cost (Equivalent to the sum of the previous fields)

Name	Description	Title	Other Conditions	Type	Search Type	Sequence name
ACP_ASSETCOSTID	Acp_assetcostid	Acp_assetcostid	Persistent Must Be	INTEGER 12,0	EXACT	ACP_ASSET COSTIDSEQ
ORGID			Persistent Same as OBJECT ORGANIZATION Same as Attribute ORGID Class: psdi.app.site.FldOrganizati onID	UPPER(8)		
SITEID	Site ID		Persistent Same as Object SITE Same as Attribute SITEID	UPPER(8)	EXACT	
ASSETNUM	Asset Number	Asset Number	Persistent Same as Object: ASSET Same as Attribute: ASSETNUM	UPPER(12)	EXACT	
YEAR	Year	Fiscal Year	Persistent	ALN(4)	NONE	
LABCOSTS	Labor Costs for the period	Labor Costs	Persistent	DECIMAL(1 6,2)	EXACT	
MATCOSTS	Material Costs for the period	Material Costs	Persistent	DECIMAL(1 6,2)	EXACT	
TOOLCOSTS	Tool Costs for the period	Tool Costs	Persistent	DECIMAL(1 6,2)	EXACT	
SERVCOSTS	Service Costs for the period	Service Costs	Persistent	DECIMAL(1 6,2)	EXACT	
YTDCOSTS	Year to Date Costs	YTD Costs	Persistent	DECIMAL(1 6,2)	EXACT	

Indexes

Indexes Details				Columns for each Index		
Index Name	Enforce Unique	Storage Partition	Internal	Fields	Sequence	Ascending
ACP_ASSETCOSTSUDX	Yes	MAXIMO_INDEX	No	ORGID SITEID ASSETNUM YEAR	1 2 3 4	Checked Checked Checked Checked
ACP_ASSETCOSTSIDX1	No	MAXIMO_INDEX	No	ORGID SITEID ASSETNUM	1 2 3	Checked Checked Checked
ACP_ASSETCOSTS_NDX1	Yes	MAXIMO_INDEX	Yes	ACP_ASSETCOSTID	1	Checked

Relationships

Name	Remarks	Child Object	Where Clause
ASSETCOSTS	Relationship to Asset Costs per year	ACP_ASSETCOSTS	ORGID=:ORGID AND SITEID = :SITEID AND ASSETNUM = :ASSETNUM

Java Class: com.acp.costrollup

That package also contains 2 properties files, that contain the SQL Statements used in the Cost Rollup logic. These properties are named:

- cost_rollup.properties
- cost_rollup_reset.properties

Logging Configuration

In order to provide logging information in case of failure, the solution is designed to use the following Root Logger and associated Logger. The corresponding appenders should be defined by ACP based on their internal policy.

Search Logger ACP
 Clic new row and add
 Logger: CostRollup
 Log Level: ERROR
 Key: log4j.logger.maximo.acp.CostRollup
 Active: Yes

These are the defined logger configuration:

Logger	Key	Appenders
Root Logger	log4j.logger.maximo.acp	Console, Rolling
CostRollup	log4j.logger.maximo.acp.CostRollup	

Cron Task Definition

The cron task is defined as COSTROLLUP as shown in the picture bellow:

Clic new Cron Task definition

Cron Task: COSTROLLUP

Description: Cost Rollup CronTask
Class: com.acp.costrollup.CostRollupCron
 Clic new row para **Section Cron Task Instances**
Cron Task Instance Name: DEFAULT
Run as USER: MAXADMIN
Active: check boX

The Cron Task Parameters are:

Name	Description	Value	Required	Sample DO NOT CONFIGURE
1 orgld	Organization Id	ACP	Yes	
2 reset	Indicates if the process will perform a complete reset of costs. In case of reset, the rollup flag on the transactions will be ignored	False	Yes	true/false
3 yearStartMonthDay	Month and Day when the Financial Year starts	10-1	Yes	
4 sitesFilter	List of Sites that the Cost Rollup will be performed. It must be entered as a list of string (like SQL IN sentence)	blank	No	'SITE1','SITE2'

5	assetLike	A pattern the asset must match (SQL like syntax)	blank	No	'%CDM%'
6	startDate	Only transactions executed after the defined date will be considered with format MM/dd/yyyy HH:mm:ss	blank	No	12/18/1990 00:00:00
7	endDate	Only transactions executed before the defined date will be considered with format MM/dd/yyyy HH:mm:ss	blank	No	12/24/2015 00:00:00
8	additionalFilter	Additional filtering criteria on the Transactions. The filter must be based on WORKORDER object	blank	No	WORKORDER.WOTYPE='EV' and WORKORDER.PMNUM IS NOT NULL
9	srAdditionalFilter	Additional filtering criteria on the Ticket transactions. The filter must be based on TICKET object	blank	No	TICKET.CLASS='SR'

6. Application: ACP Asset meter Tracking - ACP Custom

ACP Asset Meter Tracking

Bulletins: (0) Go To Reports Start Center Profile Sign Out Help

Select Action

TABLE TITLE Filter 1 - 15 of 1647

Record Key	Record Type	OrgId	Site Id	Asset Number	Meter Name	Meter Type	Location	Location Meter Name	Source Key
1,061	ASSET	ACP	OME	VVA435	CICLOMETRO	CONTINUOUS			MAXIMO.RSV435.F8:0
1,328	ASSET	ACP	OME	CV533	CICLOMETRO	CONTINUOUS			MAXIMO.CV533.F8:0
1,334	ASSET	ACP	OME	CV538	CICLOMETRO	CONTINUOUS			MAXIMO.CV538.F8:0
1,336	ASSET	ACP	OME	CV540	CICLOMETRO	CONTINUOUS			MAXIMO.CV540.F8:0
1,342	ASSET	ACP	OME	CV546	CICLOMETRO	CONTINUOUS			MAXIMO.CV546.F8:0
1,420	ASSET	ACP	OME	VVA216	CICLOMETRO	CONTINUOUS			MAXIMO.RSV216.F8:0
1,432	ASSET	ACP	OME	VVA228	CICLOMETRO	CONTINUOUS			MAXIMO.RSV228.F8:0
1,452	ASSET	ACP	OME	VVA248	CICLOMETRO	CONTINUOUS			MAXIMO.RSV248.F8:0
1,453	ASSET	ACP	OME	VVA249	CICLOMETRO	CONTINUOUS			MAXIMO.RSV249.F8:0
1,454	ASSET	ACP	OME	VVA252	CICLOMETRO	CONTINUOUS			MAXIMO.RSV252.F8:0
1,461	ASSET	ACP	OME	VVA259	CICLOMETRO	CONTINUOUS			MAXIMO.RSV259.F8:0
1,462	ASSET	ACP	OME	VVA260	CICLOMETRO	CONTINUOUS			MAXIMO.RSV260.F8:0
1,463	ASSET	ACP	OME	VVA261	CICLOMETRO	CONTINUOUS			MAXIMO.RSV261.F8:0
1,811	ASSET	ACP	GTDE	F00-XS2942	HOROMETRO	CONTINUOUS			F00XS2942_RTT
1,940	ASSET	ACP	OME	VVA413	PRESION BAJ	CHARACTERI:	OPEP-MF		MAXCAR.RSV413.B9:2/10

Select Records

New Row

Database Configuration Object ACP_AMT

Attribute	Description	Type	Length	Scale	Required
ACP_AMTID	Acp_amtid	INTEGER	12	0	Y
ASSETMETERID	Assetmeterid	INTEGER	12	0	N
ASSETNUM	Asset Number	UPPER	12	0	N
DESCRIPTION	Description	ALN	50	0	N
DESCRIPTION_LONGDESCRIPTION	Description_longdescription	LONGALN	32000	0	N
HASLD	Hasld	YORN	1	0	Y
LOCATION	Location	UPPER	12	0	N
LOCMETERNAME	Location Meter Name	UPPER	30	0	N
LOCPOINTNUM	Location Point Number for Condition Monitoring	UPPER	8	0	N
METERNAME	Metername	UPPER	30	0	N
METERTYPE	Metertype	UPPER	25	0	N
ORGID	Orgid	UPPER	8	0	N
POINTNUM	Asset Condition Monitoring Point Number	UPPER	8	0	N
RECTYPE	Record type	UPPER	10	0	N
SITEID	Site Id	UPPER	8	0	N
SOURCEKEY	Source System Record Key	ALN	35	0	N
SOURCESYS	Source System	UPPER	10	0	N

Select Records

Details

Record Key: 1,061

* Record Type: ASSET >>

* Orgid: ACP >>

* Site Id: OME >>

* Source System: SICME >>

* Asset Number: VVA435 >> Válvula de Vástago Ascendente, VVA435 

Asset Status: OPERATING

* Meter Name: CICLOMETRO >>

Pointnum:

Location: >> 

Location Status:

Location Meter Name: >>

Location Point Number:

* Source Key: MAXIMO:RSV435.F8:0

Signature Options: Duplicate and Delete record

7. Application Items-Components Fail Codes – ACP Custom

Items-Components Fail Codes Bulletins: (0) Go To Reports Start Center Profile Sign Out Help IBM

Select Action Filter > 1 - 15 of 512

Potential Item or Component that Fails	Description	
BEARING	Rodamiento	
DOOR	Puerta	
FILOI	Filtro de Aceite	
OIL	Oil	
PANIN	Panel de Instrumento	
PRREG	Regulador de Presión	
RLIG	Running Light	
SOLEN	Solenoid	
SWITC	Interruptor	
WISE	Vise	
TAISH	Eje de Cola	
AISTA	Motor de Arranque Por Aire	
CABIN	Cabina	
COOLE	Enfriador (Aftercooler)	
DSHA	Drum Shaft	

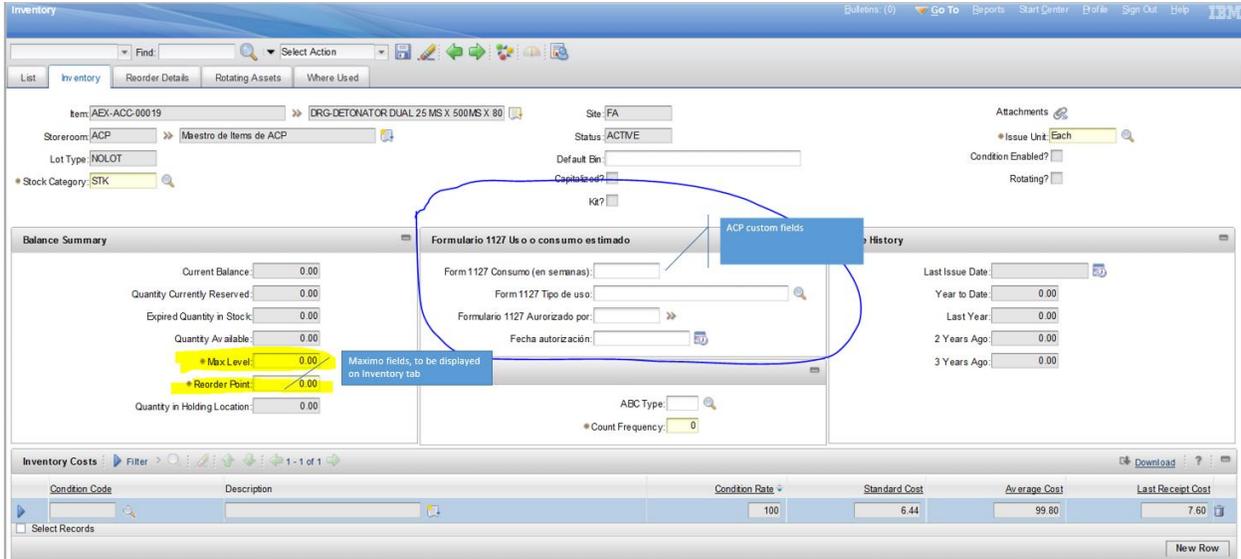
Select Records New Row

Database configuration Object ACP_FAILITEMS

Attribute	Description	Type	Length	Scale	Required
ACP_FAILITEMSID	Acp_failitemsid	INTEGER	12	0	Y
DESCRIPTION	Description	ALN	50	0	N
DESCRIPTION_LONGDESCRIPTION	Description_longdescription	LONGALN	32000	0	N
FAILITEMCODE	Generic name for item or component that may fail and is directly related to Failure Classes	UPPER	10	0	N
HASLD	Hasld	YORN	1	0	Y
LANGCODE	Language Code	UPPER	4	0	N

Signature options: duplicate, delete

8. Application Inventory



Item: AEX-ACC-00019 >> DRG-DETONATOR DUAL 25 MS X 500MS X 80

Site: FA

Status: ACTIVE

Issue Unit: Each

Condition Enabled?:

Rotating?:

Balance Summary

Current Balance: 0.00

Quantity Currently Reserved: 0.00

Expired Quantity in Stock: 0.00

Quantity Available: 0.00

* Max Level: 0.00

* Reorder Point: 0.00

Quantity in Holding Location: 0.00

Formulario 1127 Uso o consumo es estimado

Form 1127 Consumo (en semanas):

Form 1127 Tipo de uso:

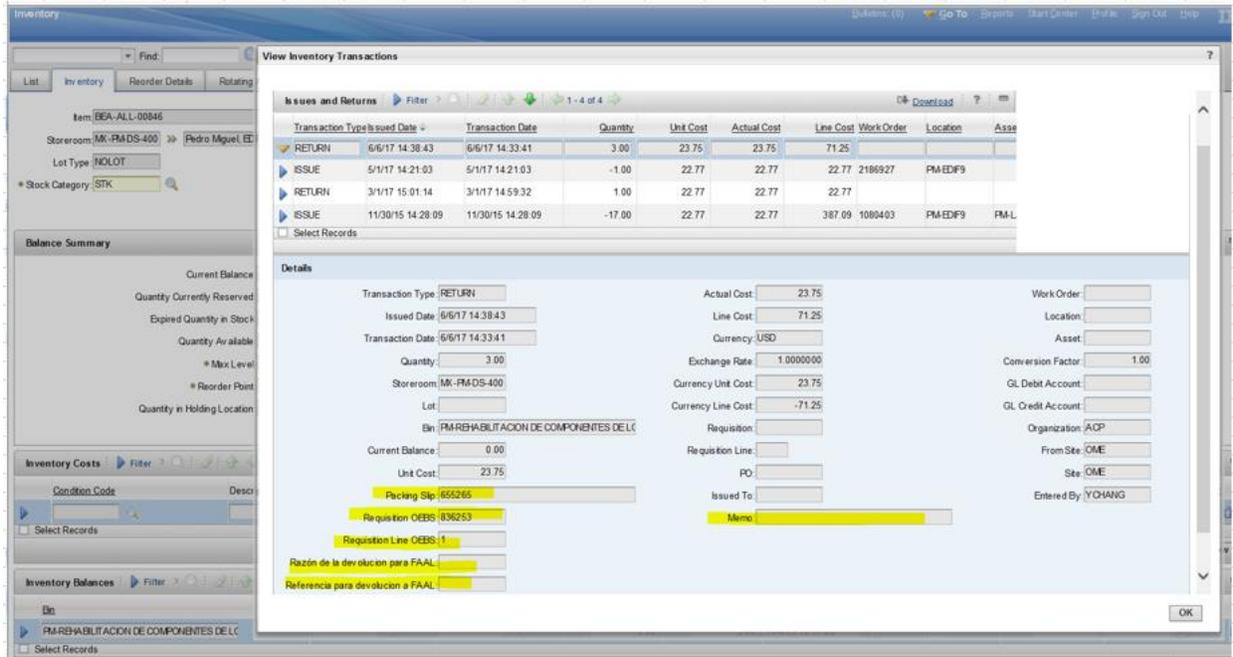
Formulario 1127 Autorizado por:

Fecha autorización:

ABC Type:

* Count Frequency: 0

Condition Code	Description	Condition Rate	Standard Cost	Average Cost	Last Receipt Cost
		100	6.44	99.80	7.60



Item: BEA-ALL-00846

Storeroom: MK-FMDS-400 >> Pedro Miguel ET

Lot Type: NOLOT

* Stock Category: STK

View Inventory Transactions

Issues and Returns

Transaction Type	Issued Date	Transaction Date	Quantity	Unit Cost	Actual Cost	Line Cost	Work Order	Location	Asset
RETURN	6/6/17 14:38:43	6/6/17 14:33:41	3.00	23.75	23.75	71.25			
ISSUE	5/1/17 14:21:03	5/1/17 14:21:03	-1.00	22.77	22.77	22.77	2186927	FMEDF9	
RETURN	3/1/17 15:01:14	3/1/17 14:59:32	1.00	22.77	22.77	22.77			
ISSUE	11/30/15 14:28:09	11/30/15 14:28:09	-17.00	22.77	22.77	387.09	1080403	FMEDF9	FM-L

Details

Transaction Type: RETURN

Actual Cost: 23.75

Work Order:

Issued Date: 6/6/17 14:38:43

Line Cost: 71.25

Location:

Transaction Date: 6/6/17 14:33:41

Currency: USD

Asset:

Quantity: 3.00

Exchange Rate: 1.0000000

Conversion Factor: 1.00

Storeroom: MK-FMDS-400

Currency Unit Cost: 23.75

GL Debit Account:

Lot:

Currency Line Cost: -71.25

GL Credit Account:

Bin: FMREHABILITACION DE COMPONENTES DELC

Requisition:

Organization: ACP

Current Balance: 0.00

Requisition Line:

From Site: OME

Unit Cost: 23.75

PO:

Site: OME

Issued To:

Entered By: YCHANG

Packing Slip: 655265

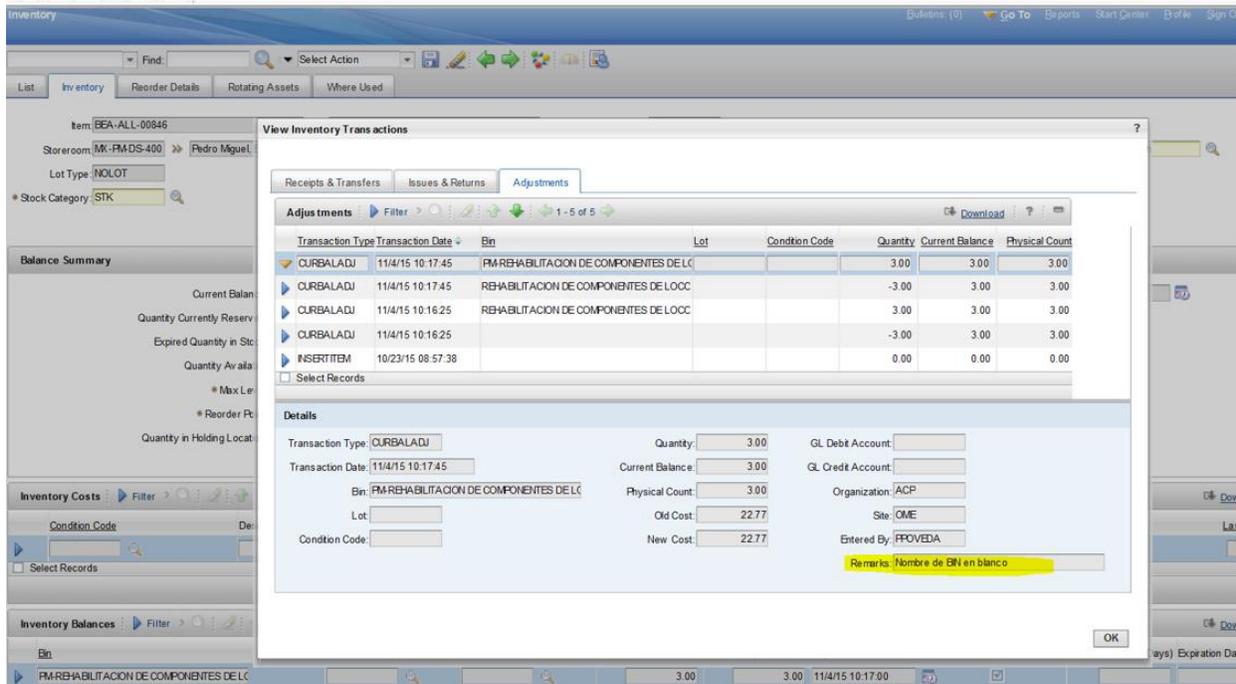
Requisition OEBS: 836253

Memo:

Requisition Line OEBS: 1

Razón de la devolución para FAAL:

Referencia para devolución a FAAL:



The screenshot shows the SAP Inventory Transactions window for item BEA-ALL-00846. The 'Adjustments' tab is active, displaying a table of transactions:

Transaction Type	Transaction Date	Bin	Lot	Condition Code	Quantity	Current Balance	Physical Count
CURBALADJ	11/4/15 10:17:45	PM-REHABILITACION DE COMPONENTES DE LOCC			3.00	3.00	3.00
CURBALADJ	11/4/15 10:17:45	REHABILITACION DE COMPONENTES DE LOCC			-3.00	3.00	3.00
CURBALADJ	11/4/15 10:16:25	REHABILITACION DE COMPONENTES DE LOCC			3.00	3.00	3.00
CURBALADJ	11/4/15 10:16:25	REHABILITACION DE COMPONENTES DE LOCC			-3.00	3.00	3.00
INSERTITEM	10/23/15 08:57:38				0.00	0.00	0.00

The 'Details' section shows the following information:

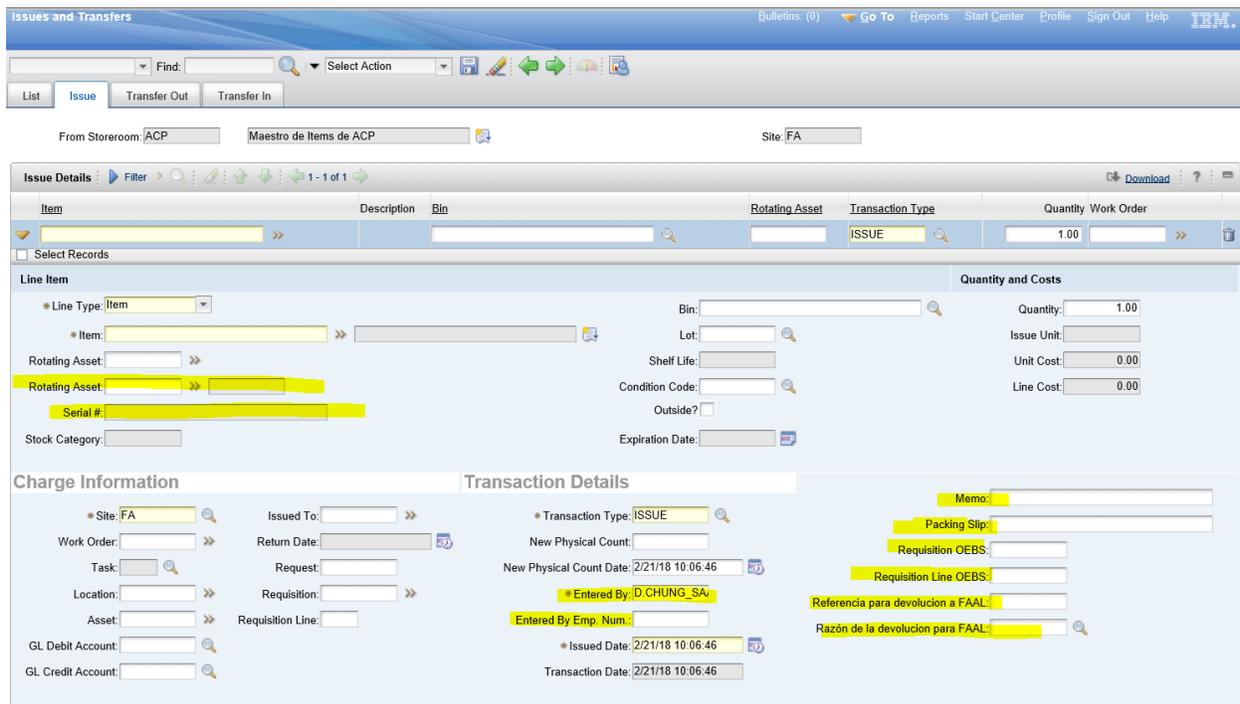
- Transaction Type: CURBALADJ
- Transaction Date: 11/4/15 10:17:45
- Bin: PM-REHABILITACION DE COMPONENTES DE LOCC
- Lot:
- Condition Code:
- Quantity: 3.00
- Current Balance: 3.00
- Physical Count: 3.00
- Old Cost: 22.77
- New Cost: 22.77
- Organization: ACP
- Site: OME
- Entered By: PFOVEDA
- Remarks: Nombre de BIN en blanco

Database configuration Object MATUSETRANS

Attribute	Description	Type	Length	Scale	Required
ACP_BADFILENAME	Bad File Name	ALN	50	0	N
ACP_INVALIDDATE	Invalid Date	ALN	20	0	N
ACP_METERNAME	Meter Name	UPPER	30	0	N
ACP_METERREADING	Meter Reading	ALN	18	0	N
ACP_RETURNDATE	Return date for borrowed tools only	DATETIME	10	0	N
ACP_TRANSLINENUM	Transaction Line Number	ALN	50	0	N
IT1	Issued To Emp. Num.	ALN	10	0	N
IT10	Referencia para devolucion a FAAL	ALN	10	0	N
IT2	Entered By Emp. Num.	ALN	10	0	N
IT3	Issued By	ALN	10	0	N
IT4	Extra Field 04	DECIMAL	15	2	N
IT5	Issued By Emp. Num.	ALN	10	0	N
IT6	Razón de la devolucion para FAAL	ALN	10	0	N
IT7	Integracion OM - Maximo	ALN	10	0	N
IT8	Requisition OEBS	ALN	10	0	N
IT9	Requisition Line OEBS	ALN	10	0	N
ITEMNUM	Item that you want to issue from this storeroom or that you use d on a work order.	UPPER	40	0	N
ITEMSETID	Item set identifier for this item.	UPPER	8	0	N
ITEMTYPE	Item Type	UPPER	15	0	N

ITIN1	Integracion despacho de OM a Maximo OT	ALN	10	0	N
ITIN2	Extra Field #7	ALN	10	0	N
ITIN3	Extra Field #8	ALN	10	0	N
ITIN4	Extra Field	ALN	10	0	N
ITIN5	Extra Field	ALN	10	0	N
ITIN6	Extra Field	ALN	10	0	N
ITIN7	Extra Field	ALN	10	0	N

9. Application Issues and Transfers:

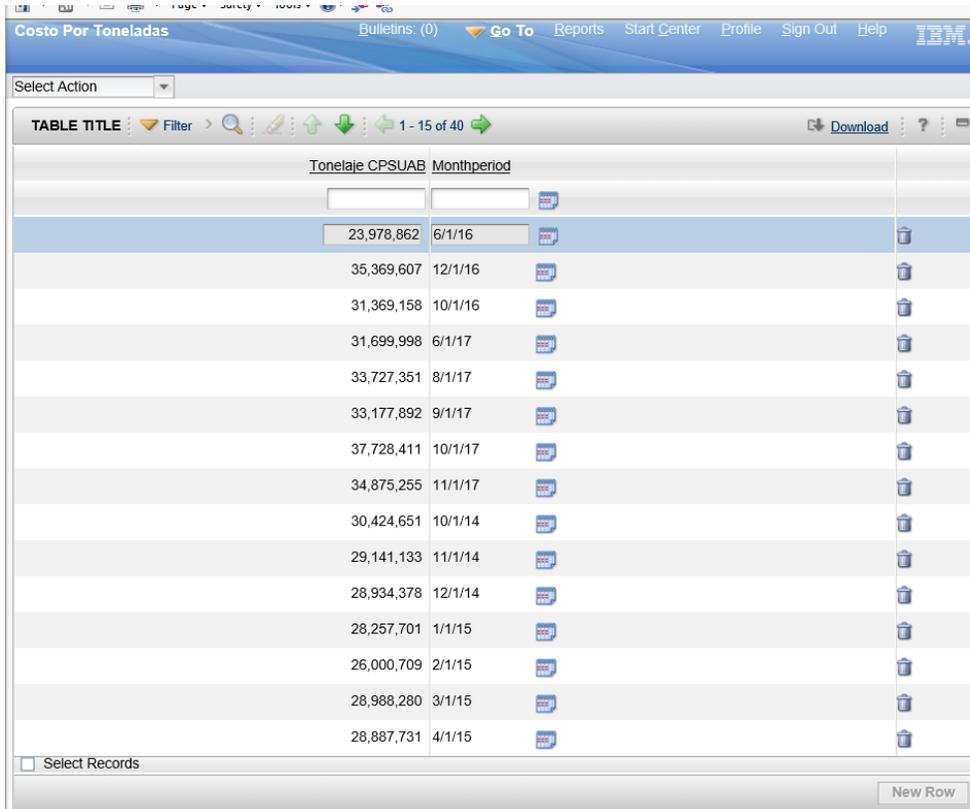


Database configuration Object Matusetrans

Attribute	Description	Type	Length	Scale	Required
ACP_RETURNDATE	Return date for borrowed tools only	DATETIME	10	0	N
ACP_TRANSLINENUM	Transaction Line Number	ALN	50	0	N
IT1	Issued To Emp. Num.	ALN	10	0	N
IT10	Referencia para devolucion a FAAL	ALN	10	0	N
IT2	Entered By Emp. Num.	ALN	10	0	N
IT3	Issued By	ALN	10	0	N
IT4	Extra Field 04	DECIMAL	15	2	N
IT5	Issued By Emp. Num.	ALN	10	0	N
IT6	Razón de la devolucion para FAAL	ALN	10	0	N
IT7	Integracion OM - Maximo	ALN	10	0	N
IT8	Requisition OEBS	ALN	10	0	N
IT9	Requisition Line OEBS	ALN	10	0	N
ITEMNUM	Item that you want to issue from this storeroom or that you used on a work order.	UPPER	40	0	N
ITEMSETID	Item set identifier for this item.	UPPER	8	0	N

Attribute	Description	Type	Length	Scale	Required
ITEMTYPE	Item Type	UPPER	15	0	N
ITIN1	Integracion despacho de OM a Maximo OT	ALN	10	0	N

10. Application Costo Por Toneladas – ACP Custom



The screenshot shows the IBM Maximo application interface for 'Costo Por Toneladas'. The table displays the following data:

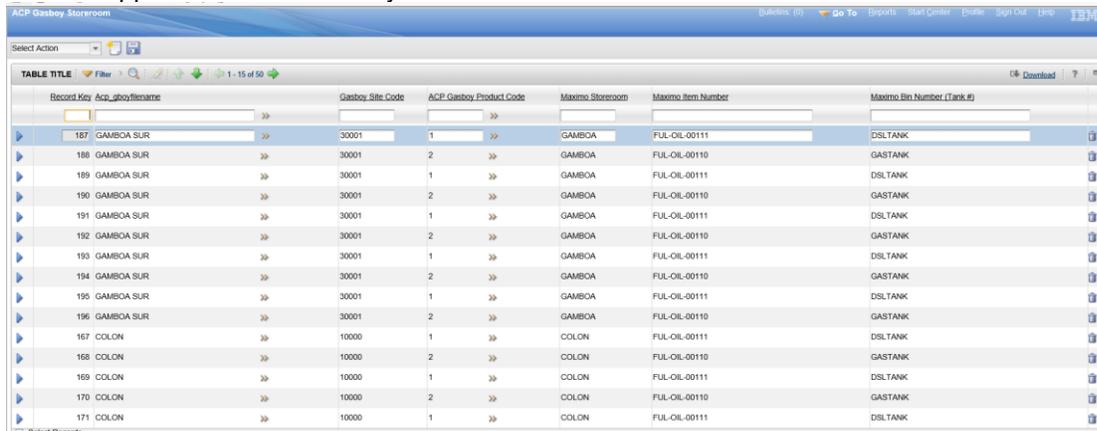
Tonelaje CPSUAB	Monthperiod
23,978,862	6/1/16
35,369,607	12/1/16
31,369,158	10/1/16
31,699,998	6/1/17
33,727,351	8/1/17
33,177,892	9/1/17
37,728,411	10/1/17
34,875,255	11/1/17
30,424,651	10/1/14
29,141,133	11/1/14
28,934,378	12/1/14
28,257,701	1/1/15
26,000,709	2/1/15
28,988,280	3/1/15
28,887,731	4/1/15

Database Configuration Object ACP_CPSUAB97

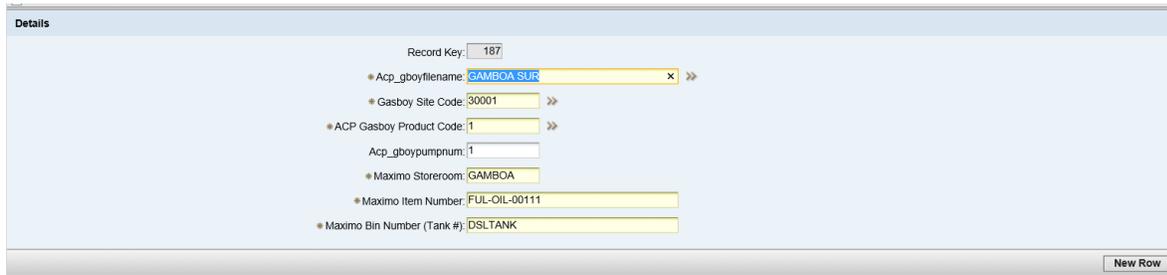
Attribute	Description	Type	Length	Scale	Required
ACP_CPSUAB97ID	Acp_cpsuab97id	INTEGER	12	0	Y
BUBGETTONCPSUAB	Budget tons CPSUAB	FLOAT	16	2	N
BUBGETTONCPSUAB_LONGDESCRIPTION	Bubgettoncpsuab_longdescription	LONGALN	32000	0	N
CPTMONTHLY	Monthly cost per ton	FLOAT	16	2	N
CPTPROJECTION	Cost per ton projected	FLOAT	16	2	N
CPTRUNNING	Cost per ton accumulated	FLOAT	16	2	N
EXPENSESBUBGETOP	OP expenditure budgets	FLOAT	16	2	N
EXPENSESOP	Monthly Expenses op	FLOAT	16	2	N
GOAL	Year-Month of cpsuab period.	FLOAT	16	2	N
MONTHPERIOD	Year-Month of cpsuab period.	DATE	4	0	N

Attribute	Description	Type	Length	Scale	Required
ORGID	Organization	UPPER	8	0	N
SITEID	Site identifier	UPPER	8	0	N
TONCPSUAB97	Ton of cpsuab97	FLOAT	16	2	N

11. Application: ACP Gasboy Storeroom



Record Key	Acp_gboyfilename	Gasboy Site Code	ACP Gasboy Product Code	Maximo Storeroom	Maximo Item Number	Maximo Bin Number (Tank #)
187	GAMBIA SUR	30001	1	GAMBIA	FUL-OIL-00111	DSL-TANK
188	GAMBIA SUR	30001	2	GAMBIA	FUL-OIL-00110	GASTANK
189	GAMBIA SUR	30001	1	GAMBIA	FUL-OIL-00111	DSL-TANK
190	GAMBIA SUR	30001	2	GAMBIA	FUL-OIL-00110	GASTANK
191	GAMBIA SUR	30001	1	GAMBIA	FUL-OIL-00111	DSL-TANK
192	GAMBIA SUR	30001	2	GAMBIA	FUL-OIL-00110	GASTANK
193	GAMBIA SUR	30001	1	GAMBIA	FUL-OIL-00111	DSL-TANK
194	GAMBIA SUR	30001	2	GAMBIA	FUL-OIL-00110	GASTANK
195	GAMBIA SUR	30001	1	GAMBIA	FUL-OIL-00111	DSL-TANK
196	GAMBIA SUR	30001	2	GAMBIA	FUL-OIL-00110	GASTANK
167	COLON	10000	1	COLON	FUL-OIL-00111	DSL-TANK
168	COLON	10000	2	COLON	FUL-OIL-00110	GASTANK
169	COLON	10000	1	COLON	FUL-OIL-00111	DSL-TANK
170	COLON	10000	2	COLON	FUL-OIL-00110	GASTANK
171	COLON	10000	1	COLON	FUL-OIL-00111	DSL-TANK



Record Key: 187

- Acp_gboyfilename: GAMBIA SUR
- Gasboy Site Code: 30001
- ACP Gasboy Product Code: 1
- Acp_gboypumpnum: 1
- Maximo Storeroom: GAMBIA
- Maximo Item Number: FUL-OIL-00111
- Maximo Bin Number (Tank #): DSL-TANK

Database Configuration Object ACP_GBOY_STOREROOM

Attribute	Description	Type	Length	Scale	Required
ACP_GBOYFILENAME	Acp_gboyfilename	ALN	50	0	N
ACP_GBOYPRODCODE	GasBoy Product Code	ALN	5	0	N
ACP_GBOYPUMPNUM	GasBoy Pump Number	ALN	5	0	N
ACP_GBOYSITECODE	GasBoy Site Code	ALN	5	0	N
ACP_GBOY_STOREROOMID	Acp_gboy_storeroomid	INTEGER	12	0	Y
ACP_MXBINNUM	Maximo Bin Number (Tank #)	ALN	49	0	N
ACP_MXITEMNUM	Maximo Item Number	UPPER	40	0	N
ACP_MXSTOREROOM	Maximo Storeroom	UPPER	12	0	N
DESCRIPTION	Description	ALN	50	0	N
DESCRIPTION_LONGDESCRIPTION	Description_longdescription	LONGALN	32000	0	N
HASLD	Hasld	YORN	1	0	Y

Signature Options: Duplicate, delete

12. Application: ACP Massive Deliveries ACP Custom

ACP Massive Deliveries

Find: [] Select Action []

List Issue Transfer Out Transfer In

From Storeroom: ACP Maestro de Items de ACP Site: FA

Issue Details Filter 0 - 0 of 0

Item	Description	Bin	Rotating Asset	Transaction Type	Quantity	Work Order
...No rows to display...						

Select Records []

Default table data

Issued To Emp. Num.: [] Issued By Emp. Num.: [] Issued Date: []

ACP Massive Deliveries

Find: [] Select Action []

List Issue Transfer Out Transfer In

From Storeroom: ACP Maestro de Items de ACP Site: FA

Issue Details Filter 1 - 1 of 1

Item	Description	Bin	Rotating Asset	Transaction Type	Quantity	Work Order
[]	[]	[]	[]	ISSUE	1.00	[]

Select Records []

Line Item

Line Type: Item

Item: []

Rotating Asset: []

Condition Code: []

Stock Category: []

Outside?

Bin: []

Lot: []

Shelf Life: []

Expiration Date: []

Quantity and Costs

Quantity: 1.00

Issue Unit: []

Unit Cost: 0.00

Line Cost: 0.00

Charge Information

Site: FA

Work Order: []

Task: []

Location: []

Asset: []

GL Debit Account: []

GL Credit Account: []

Transaction Details

Issued To: []

Issued To Emp. Num.: []

Return Date: []

Request: []

Requisition Line: []

Issued By: []

Issued By Emp. Num.: []

Issued Date: 2/21/18 08:20:06

Transaction Type: ISSUE

New Physical Count: []

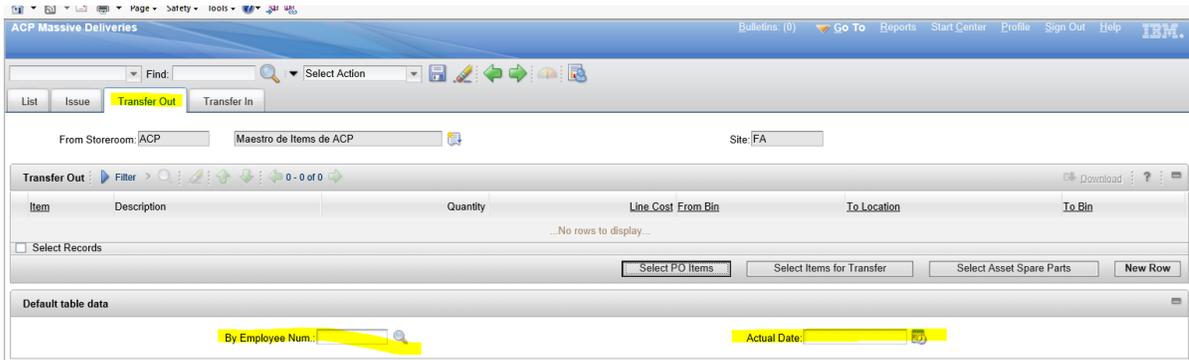
New Physical Count Date: 2/21/18 08:20:06

Entered By: D.CHUNG_SA

Entered By Emp. Num.: []

Transaction Date: 2/21/18 08:20:06

Memo: []



ACP Massive Deliveries

Find: [] Select Action []

List Issue **Transfer Out** Transfer In

From Storeroom: ACP Maestro de Items de ACP Site: FA

Transfer Out: Filter 0 - 0 of 0

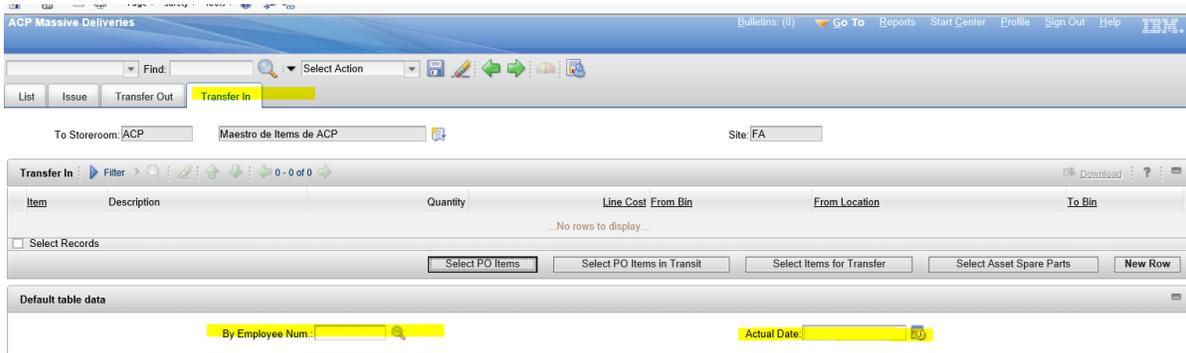
Item	Description	Quantity	Line Cost	From Bin	To Location	To Bin
...No rows to display...						

Select Records []

Select PO Items Select Items for Transfer Select Asset Spare Parts New Row

Default table data

By Employee Num. [] Actual Date: []



ACP Massive Deliveries

Find: [] Select Action []

List Issue Transfer Out **Transfer In**

To Storeroom: ACP Maestro de Items de ACP Site: FA

Transfer In: Filter 0 - 0 of 0

Item	Description	Quantity	Line Cost	From Bin	From Location	To Bin
...No rows to display...						

Select Records []

Select PO Items Select PO Items in Transit Select Items for Transfer Select Asset Spare Parts New Row

Default table data

By Employee Num. [] Actual Date: []

Database configuration Object MATUSETRANS

Object	Attribute	Description	Domain	Lookup Map
MATUSETRANS	ISSUETO		ACP_INV_EMPLNUMTO	
MATUSETRANS	ENTERBY		ACP_INV_EMPLNUMBY	
MATUSETRANS	ACTUALDATE	<i>Issued Date</i>		
MATUSETRANS	IT1	<i>Issued To Emp. Num</i>	ACP_INV_ISSUETO	Add a Lookup Map with the following information: Target Attribute: <i>IT1</i> Source Object: <i>PERSON</i> Source Key: <i>ACP_EMPLNUM</i> Sequence: 1
MATUSETRANS	IT2	<i>Entered By Emp. Num.</i>	ACP_INV_ENTERBY	Target Attribute: <i>IT2</i> Source Object: <i>PERSON</i> Source Key: <i>ACP_EMPLNUM</i>

Object	Attribute	Description	Domain	Lookup Map
				Sequence: 1
MATUSETRANS	IT3	<i>Issued By</i>	ACP_INV_EMPLNISBY	Target Attribute: IT3 Source Object: PERSON Source Key: PERSONID Sequence: 1
MATUSETRANS	IT5	<i>Issued By Emp. Num</i>	ACP_INV_ISSUEDBY	Target Attribute: IT5 Source Object: PERSON Source Key: ACP_EMPLNUM Sequence: 1
MATRECTRANS	ENTERBY		ACP_INV_EMPLNUMBY	
	IT2		ACP_INV_ENTERBY	Target Attribute: IT2 Source Object: PERSON Source Key: ACP_EMPLNUM Sequence: 1

Add New CROSSOVER Domain : ACP_INV_EMPLNUMTO

- Description: *Crossover Issued To - Employee Number*
- Object: *PERSON*
- Validation Where Clause: *PERSONID=:ISSUETO*
- Source field: *ACP_EMPLNUM*
- Destination Field: *IT1*

- Domain: *ACP_INV_ISSUETO*
- Description: *Crossover Employee Number - Issued To*
- Object: *PERSON*
- Validation Where Clause: *ACP_EMPLNUM=:IT1*
- Source field: *PERSONID*
- Destination Field: *ISSUETO*

- Domain: *ACP_INV_EMPLNUMBY*
- Description: *Crossover Entered By - Employee Number*
- Object: *PERSON*

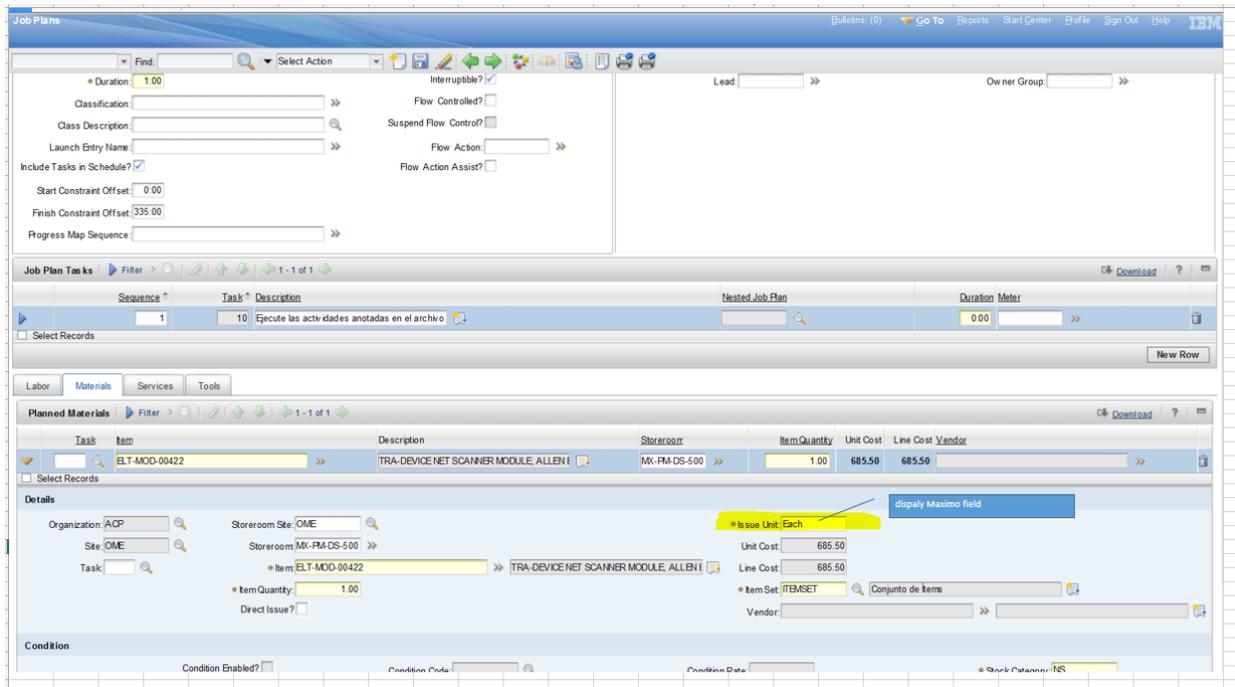
- Validation Where Clause: *PERSONID=:ENTERBY*
- Source field: *ACP_EMPLNUM*
- Destination Field: *IT2*

- Domain: *ACP_INV_ENTERBY*
- Description: *Crossover Employee Number – Entered By*
- Object: *PERSON*
- Validation Where Clause: *ACP_EMPLNUM=:IT2*
- Source field: *PERSONID*
- Destination Field: *ENTERBY*

- Domain: *ACP_INV_EMPLNISBY*
- Description: *Crossover Issued By - Employee Number*
- Object: *PERSON*
- Validation Where Clause: *PERSONID=:IT3*
- Source field: *ACP_EMPLNUM*
- Destination Field: *IT5*

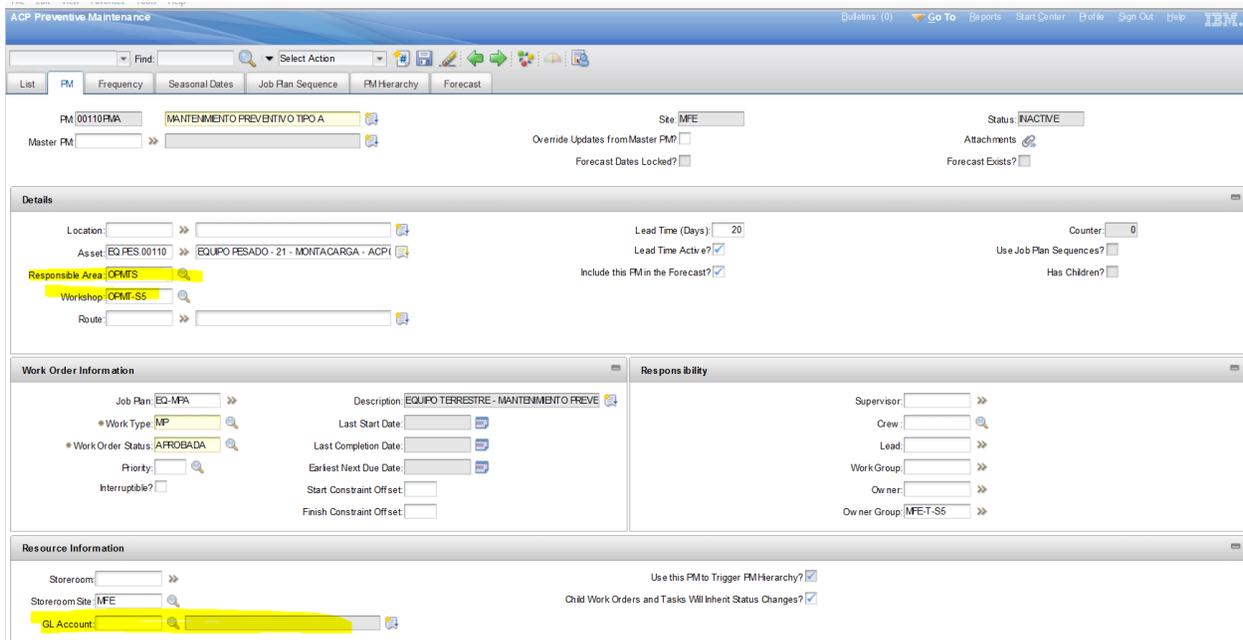
- Domain: *ACP_INV_ISSUEDBY*
- Description: *Crossover Employee Number - Issued By*
- Object: *PERSON*
- Validation Where Clause: *ACP_EMPLNUM=:IT5*
- Source field: *PERSONID*
- Destination Field: *IT3*

13. Application: Job Plan



The screenshot displays the IBM Maximo Job Plan configuration screen. Key sections include:

- Job Plan Configuration:** Fields for Duration (1.00), Classification, Class Description, Launch Entry Name, and various constraint offsets (Start: 0.00, Finish: 335.00).
- Job Plan Tasks:** A table with columns for Sequence, Task, Description, Nested Job Plan, and Duration Meter. One task is listed: Sequence 1, Task 10, Description 'Ejecute las actividades anotadas en el archivo'.
- Planned Materials:** A table with columns for Task, Item, Description, Storeroom, Item Quantity, Unit Cost, Line Cost, and Vendor. One material is listed: Task 1, Item ELT-MOD-00422, Description 'TRA-DEVICE NET SCANNER MODULE ALLEN', Storeroom MX-FM-DS-500, Item Quantity 1.00, Unit Cost 685.50, Line Cost 685.50.
- Details:** Fields for Organization (ACP), Site (OME), Storeroom (MX-FM-DS-500), Task, Item (ELT-MOD-00422), Item Quantity (1.00), and Direct Issue? (unchecked). A yellow highlight is on the 'Issue Unit: Each' field, with a callout box 'display Maximo field'.

14. Application Preventive Maintenance


The screenshot displays the 'ACP Preventive Maintenance' application interface. At the top, there is a navigation bar with 'Bullseyes (0)', 'Go To', 'Reports', 'Start Center', 'Profile', 'Sign Out', and 'Help'. Below this is a search bar and a 'Select Action' dropdown. The main interface is divided into several sections:

- Summary Section:** Includes fields for 'PM 00110:RMA', 'MANUTENIMIENTO PREVENTIVO TIPO A', 'Site MFE', and 'Status INACTIVE'. There are also checkboxes for 'Override Updates from Master PM?', 'Forecast Dates Locked?', 'Attachments', and 'Forecast Exists?'.
- Details Section:** Contains fields for 'Location', 'Asset EQ_PES.00110', 'Responsible Area CPMS', 'Workshop CPMT-SS', 'Route', 'Lead Time (Days) 20', 'Counter 0', 'Lead Time Active?', 'Include this PM in the Forecast?', 'Use Job Plan Sequences?', and 'Has Children?'.
- Work Order Information Section:** Shows 'Job Plan EQ-MPA', 'Description EQUIPO TERRESTRE - MANTENIMIENTO PREVE', 'Work Type MP', 'Work Order Status AFROBADA', 'Priority', 'Interruptible?', 'Last Start Date', 'Last Completion Date', 'Earliest Next Due Date', 'Start Constraint Offset', and 'Finish Constraint Offset'.
- Responsibility Section:** Lists roles such as 'Supervisor', 'Crew', 'Lead', 'Work Group', 'Owner', and 'Owner Group MFE-T-SS'.
- Resource Information Section:** Includes 'Storeroom', 'Storeroom Site MFE', 'GL Account', 'Use this PM to Trigger PM Hierarchy?', and 'Child Work Orders and Tasks Will Inherit Status Changes?'.

SERVICENAME	OBJECTNAME	ATTRIBUTENAME	TITLE	PERSISTENT	MAXTYPE	LENGTH
PM	PM	ACP_AREA	Responsible Area	1	UPPER	30
PM	PM	ACP_WORKSHOP	Workshop	1	UPPER	12

15. Application: PR

Purchase Requisitions

PR: 1817 T. M.Lanchas, OT 180788, Activo PM-C06, MOI Site: OFD Status: CAN

Details	Dates	Costs
*Priority: 0 Requested By: OANDRADE Supervisor: Contract Reference: Contract Type: Contract Revision: ACP External PR? *Alpha Code: OFDA	Status Date: 7/11/13 11:03:08 Requested Date: 7/11/13 08:58:07 Required Date: 7/11/13 08:58:07	Pretax Total: 294.45 Total Tax: 0.00 Total Cost: 294.45 *Currency: USD Total Base Cost: 294.45

Error

Vendor

No Vendor? Internal?

Company: 101-0000771023-PANAMA >> IASA PANAMA S A
 Address: AVENIDA DOMINGO DIAZ FRENTE A LA RUID
 City: PANAMA
 State/Province:
 ZIP/Postal Code: PA
 Contact:
 Customer #:
 Phone:

Storeroom:
 Storeroom Site:
 Freight Terms: Pagado por Contratista
 Payment Terms: Neto 30 dias
 Ship Via:
 FOB Point: Rep. de Panam
 Pay Tax to Vendor?
 Pay on Receipt?
 Inspection Required?

Purchase Requisitions

PR: 1817 T. M.Lanchas, OT 180788, Activo PM-C06, MOI Site: OFD Status: CAN Total Cost: 294.45

Line	Item	Description	Quantity	Order Unit	Unit Cost	Line Cost	Tax	Distributed?
100.010.001		DRG-REGULATOR, WATER TEMPERATURE, 98	1.00	Each	37.02	37.02	0.00	<input type="checkbox"/>
100.020.001		DRG-MPELLER, CATERPILLAR PN 296-8388	1.00	Each	257.43	257.43	0.00	<input type="checkbox"/>

Line Item

* Line: 100.010.001
 Line Type: Material
 Item: DRG-REGULATOR, WATER TEMPERATURE, 98
 License Number:
 Condition Code:
 Remarks:
 Classification:
 Class Description:

Manufacturer:
 Model:
 Category:
 Catalog #:
 Commodity Group:
 Commodity Code:

Receipt Required?
 Inspection Required?
 Issue on Receipt?
 Change to Store?
 Distributed?
 Copy to RFQ?
 Copy to Contract?

Quantity and Costs

Quantity: 1.00
 * Order Unit: Each
 Issue Unit:
 * Conversion Factor: 1.00
 Unit Cost: 37.02
 * Line Cost: 37.02

Tax Code:
 * Tax: 0.00
 Loaded Cost: 37.02
 Contract Reference:
 Contract Type:
 Contract Reference Revision:

Charge To

Storeroom:
 Work Order: 180788
 WO Task:
 Location: LAN-P-052
 Asset: PM-C06
 FCD: 42084
 * Project: 29193
 * Task: 102
 * Expenditure Type: 109120-Ratío de Inventario U

Error Message

Error Message

Quantity and Costs

Quantity: 1.00
 * Order Unit: Each
 Issue Unit:
 * Conversion Factor: 1.00
 Unit Cost: 37.02
 * Line Cost: 37.02

Tax Code:
 * Tax: 0.00
 Loaded Cost: 37.02
 Contract Reference:
 Contract Type:
 Contract Reference Revision:

Charge To

Storeroom:
 Work Order: 180788
 WO Task:
 Location: LAN-P-052
 Asset: PM C06
 FOD: 42084
 * Project: 29193
 * Task: 102
 * Expenditure Type: 709120-Retro de Inventario U
 * Subinventory:
 * Expenditure Organization: 630102-OPDA-C TALLER DE CARPINTERIA

Error Message

Error Message:

Related Records

Requisition:
 Requisition Line:
 RFQ:
 RFQ Line:

PO:
 PO Line:
 Contract:
 Contract Line:
 Contract Type:

Section...

* OEBIS User: OADRGRADE
 * Entered Date: 7/11/13 09:58:07
 * OEBIS Preparer: HMONTENEIRO
 * Required Date: 7/13/13
 Vendor Date:

Details

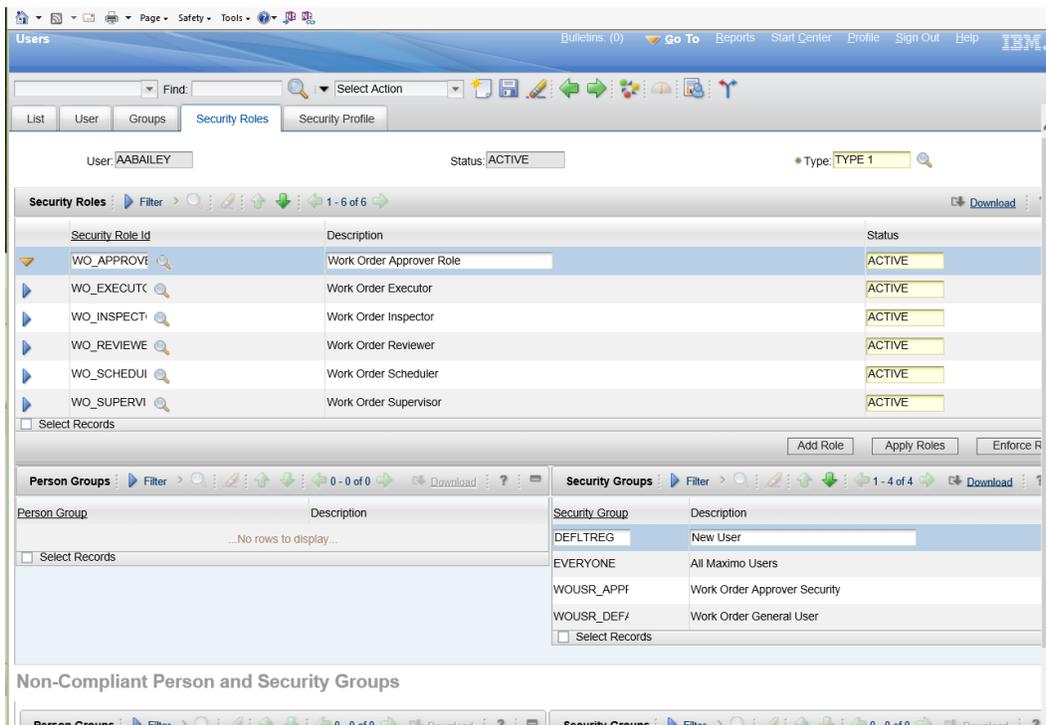
N° Requisición Procurement: ##507409
 Estado PR Procurement: DELETE
 Comentario Procurement: Se Esta Elimando toda la Requisicio
 Estado de la linea de Procurement: DELETE

Vendor Items | Select Spare Parts | Contract Items | View Contracts | Distribute Costs

Default Table Data

Work Order:
 Location:
 Asset:
 Storeroom:
 OEBIS Preparer:
 GL Debt Account:

SERVICENAME	OBJECTNAME	ATTRIBUTENAME	TITLE	PERSISTENT	MAXTYPE	LENGTH
PR	PR	ACP_ALPHACODE	Alpha Code	1	ALN	150
PR	PR	ACP_ERROR	Error	1	YORN	1
PR	PR	ACP_PR_EXTERNAL	ACP External PR	1	YORN	1
PR	PRLINE	ACP_LINEERROR	Error Message	1	ALN	1000
PR	PRLINE	ACP_PRDISTIDIPROC	Id de la linea en iProcurement	1	INTEGER	12
PR	PRLINE	ACP_PRLINEIDIPROC	Id de la linea en iProcurement	1	INTEGER	12
PR	PRLINE	ACP_RAZONIPROC	Comentario iProcurement	1	ALN	240
PR	PRLINE	ACP_SC_IDIPROC	ID SC iProcurement	1	INTEGER	12
PR	PRLINE	ACP_SC_NUMBEREQIPROC	N° Requisición iProcurement	1	ALN	20
PR	PRLINE	ACP_STATUSLINESIPROC	Estado de la linea de iProcurement	1	ALN	25
PR	PRLINE	ACP_STATUSPRIPROC	Estado PR iProcurement	1	ALN	25
PR	PRLINE	ACP_SUBINVENTORY	Subinventory	1	ALN	10
PR	PRLINE	ACP_WORKORDERID	ID OT	1	INTEGER	12

16. Application: Users – new tab Security Roles


The screenshot displays the 'Users' application interface. At the top, there is a navigation bar with 'Users' selected. Below it, a search bar shows 'User: AABAILEY' and 'Status: ACTIVE'. The main content area is divided into two sections: 'Security Roles' and 'Security Groups'.

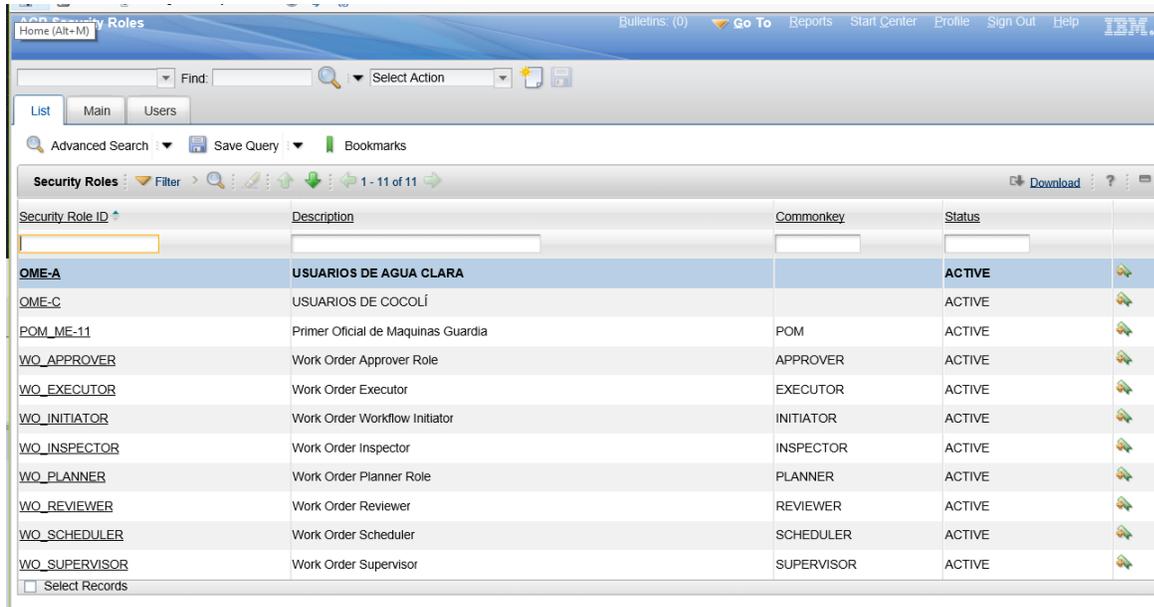
Security Roles Table:

Security_Role_Id	Description	Status
WO_APPROVE	Work Order Approver Role	ACTIVE
WO_EXECUTC	Work Order Executor	ACTIVE
WO_INSPECT	Work Order Inspector	ACTIVE
WO_REVIEWE	Work Order Reviewer	ACTIVE
WO_SCHEDUI	Work Order Scheduler	ACTIVE
WO_SUPERVI	Work Order Supervisor	ACTIVE

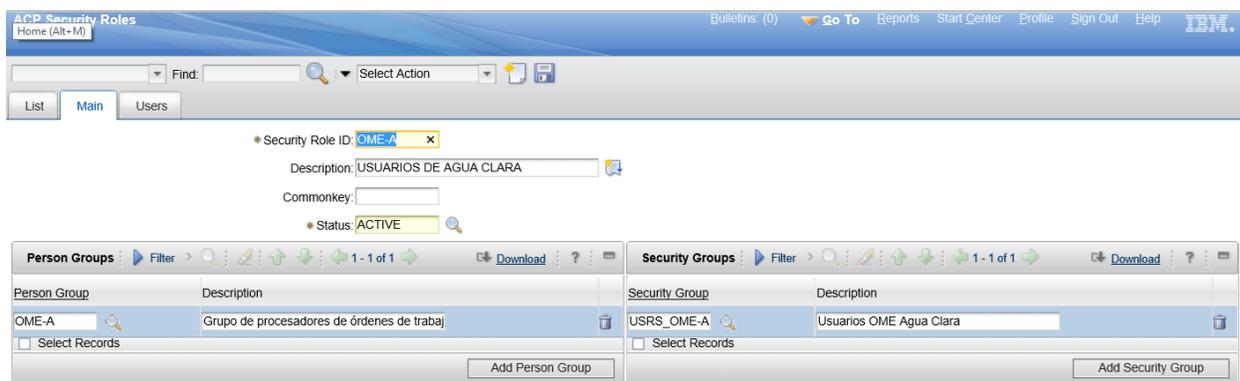
Security Groups Table:

Security_Group	Description
DEFLTREG	New User
EVERYONE	All Maximo Users
WOURS_APPF	Work Order Approver Security
WOURS_DEF/	Work Order General User

Below the tables, there is a section titled 'Non-Compliant Person and Security Groups'.

17. Application: ACP Security Roles


Security Role ID	Description	Commonkey	Status
OME-A	USUARIOS DE AGUA CLARA		ACTIVE
OME-C	USUARIOS DE COCOLÍ		ACTIVE
POM_ME-11	Primer Oficial de Maquinas Guardia	POM	ACTIVE
WO_APPROVER	Work Order Approver Role	APPROVER	ACTIVE
WO_EXECUTOR	Work Order Executor	EXECUTOR	ACTIVE
WO_INITIATOR	Work Order Workflow Initiator	INITIATOR	ACTIVE
WO_INSPECTOR	Work Order Inspector	INSPECTOR	ACTIVE
WO_PLANNER	Work Order Planner Role	PLANNER	ACTIVE
WO_REVIEWER	Work Order Reviewer	REVIEWER	ACTIVE
WO_SCHEDULER	Work Order Scheduler	SCHEDULER	ACTIVE
WO_SUPERVISOR	Work Order Supervisor	SUPERVISOR	ACTIVE



Security Role ID: OME-A

Description: USUARIOS DE AGUA CLARA

Commonkey:

Status: ACTIVE

Person Group	Description
OME-A	Grupo de procesadores de órdenes de trabaj

Security Group	Description
USRS_OME-A	Usuarios OME Agua Clara

Signature options: duplicate, delete

Four new MBOs were created to support the Security Roles capability.

- ACP_SECROLE: Responsible for holding the main Role definition information.
- ACP_SECROLE_PGROUP: Responsible for holding the Security Role to Person Group many to many relationship.
- ACP_SECROLE_SECGROUP: Responsible for holding the Security Role to Security Group many to many relationship.
- ACP_SECROLE_USERS: Responsible for holding the Security Role to User many to many relationship.

There MBOs manage the definition of the Security Role and the many to many relationships between the Security Role and the following objects:

- MAXGROUP
- PERSONGROUP

- MAXUSER

ACP_SECROLE

This is the primary table for the Security Role definition. It contains the Security Role Id, description and status.

Global Settings

- Description: ACP Security Role
- Main Object: Yes
- Level: System
- Unique Key: ACP_SECROLEID

Relationships

Name	Description	Object	Where Clause
PERSONGROUPS	Relationship to Security Roles to Person Groups MBO	ACP_SECROLE_PGROUP	SECROLEID = :SECROLEID
SECURITYGROUPS	Relationship to Security Roles to Security Groups MBO	ACP_SECROLE_SECGROUP	SECROLEID = :SECROLEID
USERS	Relationship to Security Roles to Users MBO	ACP_SECROLE_USERS	SECROLEID = :SECROLEID

Indexes

Index Name	Fields	Unique
ACP_SECROLE_NDX1	ACP_SECROLEID	Yes
ACP_SECROLEUDX	SECROLEID	Yes

ACP_SECROLE_PGROUP

This table holds the many to many relationships between Security Role and Person Groups

Global Settings

- Description: ACP Security Role - Person Groups
- Main Object: No
- Level: System
- Unique Key: ACP_SECROLE_PGROUPID

Structure

Name	Description	Type	Other Conditions
ACP_SECROLE_PGROUPID		INTEGER	Required
PERSONGROUP	Person Group	UPPER(16)	Same as PERSONGROUP(PERSONGROUP) Domain: ACP_SECROLE_PGROUP

SECCOLEID	Security Role ID	UPPER(20)	Same as ACP_SECCOLE(SECCOLEID)
------------------	------------------	------------	--------------------------------

Relationships

Name	Description	Object	Where Clause
PERSONGROUP	Relationship to Person Group	PERSONGROUP	PERSONGROUP = :PERSONGROUP

Indexes

Index Name	Fields	Unique
ACP_SECCOLE_PGROUP_NDX1	ACP_SECCOLE_PGROUPID	Yes
ACP_SECCOLE_PGROUPUDX	SECCOLEID PERSONGROUP	Yes

ACP_SECCOLE_SECGROUP

This table holds the many to many relationships between Security Role and Security Groups

Global Settings

- Description: ACP Security Role - Security Groups
- Main Object: No
- Level: System
- Unique Key: ACP_SECCOLE_SECGROUPID

Structure

Name	Description	Type	Other Conditions
ACP_SECCOLE_SECGROUPID		INTEGER	Required
GROUPNAME	Security Group Name	ALN(30)	Same as MAXGROUP(GROUPNAME) Domain: ACP_SECCOLE_SGROUP
SECCOLEID	Security Role ID	UPPER(20)	Same as ACP_SECCOLE(SECCOLEID)

Relationships

Name	Description	Object	Where Clause
MAXGROUP	Relationship to Security Group	MAXGROUP	GROUPNAME = :GROUPNAME

Indexes

Index Name	Fields	Unique
ACP_SECCOLE_SECGROUP_NDX1	ACP_SECCOLE_SECGROUPID	Yes
ACP_SECCOLE_SECGROUPUDX	SECCOLEID GROUPNAME	Yes

ACP_SECROLE_USERS

This table holds the many to many relationships between Security Role and Users

Global Settings

- Description: ACP Security Role Users
- Main Object: No
- Level: System
- Unique Key: ACP_SECROLE_USERSID

Structure

Name	Description	Type	Other Conditions
ACP_SECROLE_USERSID		INTEGER	Required
USERID	User ID	UPPER(30)	Same as PERSON(PERSONID) Domain: ACP_SECROLE_USERS
SECROLEID	Security Role ID	UPPER(20)	Same as ACP_SECROLE(SECROLEID) Domain: ACP_SECROLE Mapping: ACP_SECROLE(SECROLEID)->SECROLEID

Relationships

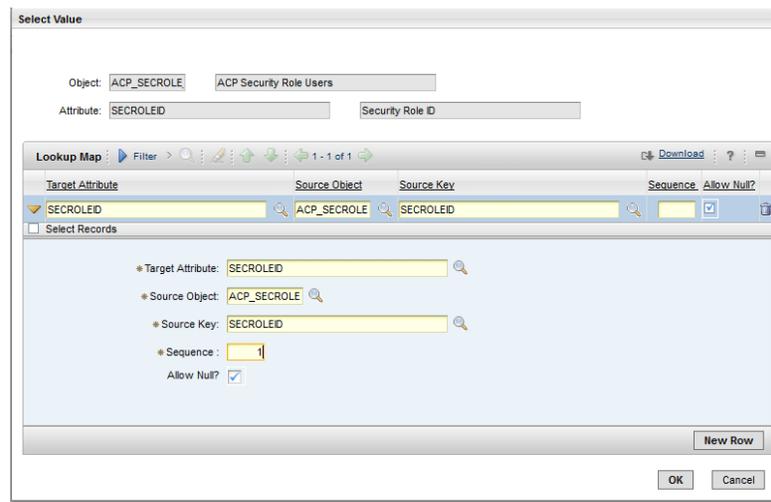
Name	Description	Object	Where Clause
MAXUSER	Relationship to MAXUSER	MAXUSER	USERID = :USERID
SECROLE	Relationship to ACP_SECROLE	ACP_SECROLE	SECROLEID = :SECROLEID

Indexes

Index Name	Fields	Unique
ACP_SECROLE_USERSUDX	SECROLEID USERID	Yes
ACP_SECROLE_USERS_NDX1	ACP_SECROLE_USERSID	Yes

Lookup Mapping

A Lookup Mapping was defined on the SECROLEID Field, as shown bellow:



ACP_SECCOLE_NC_PGROUUPS

This View is based on a custom view defined at the database level. The view selects the User and Person Groups that do not correspond to their defined roles. This can be used to show the non-compliant person groups a users is currently assigned to.

Global Settings

- Description: SECCOLE Non-Compliant Person Groups/Users
- Main Object: No
- Level: System
- Unique Key: NA
- Base View:

```
CREATE VIEW ACP_SECCOLE_NC_PGROUUPS AS
(SELECT USR.USERID, PERSONGROUP FROM PERSONGROUPTEAM T, MAXUSER USR
WHERE T.RESPPARTY = USR.PERSONID AND USR.SECCOLE_ENABLED=1 AND
PERSONGROUP NOT IN
(SELECT DISTINCT PERSONGROUP FROM ACP_SECCOLE_PGROUUP G,
ACP_SECCOLE_USERS U WHERE G.SECCOLEID = U.SECCOLEID AND U.USERID =
T.RESPPARTY) )
```

Structure

Name	Description	Type	Other Conditions
USERID	User ID	ALN(30)	
PERSONGROUP	Person Group ID	ALN(16)	

Relationships

Name	Description	Object	Where Clause
PERSONGROUP	Relationship to Person Groups	PERSONGROUP	PERSONGROUP = :PERSONGROUP

ACP_SECCOLE_NC_SGROUUPS

This View is based on a custom view defined at the database level. The view selects the User and Security Groups that do not correspond to their defined roles. This can be used to show the non-compliant security groups a user is currently assigned to.

Global Settings

- Description: SECCOLE Non-Compliant Security Groups/Users

- Main Object: No
- Level: System
- Unique Key: NA
- Base View:

```
CREATE VIEW ACP_SECROLE_NC_SGROUPS AS (
SELECT USR.USERID, GU.GROUPNAME FROM GROUPUSER GU, MAXUSER USR WHERE
GU.USERID = USR.USERID AND USR.SECROLE_ENABLED=1 AND GROUPNAME NOT IN
(SELECT DISTINCT GROUPNAME FROM ACP_SECROLE_SECGROUP G, ACP_SECROLE_USERS
U WHERE G.SECROLEID = U.SECROLEID AND U.USERID = USR.USERID) )
```

Structure

Name	Description	Type	Other Conditions
USERID	User ID	ALN(30)	
GROUPNAME	Person Group ID	ALN(30)	

Relationships

Name	Description	Object	Where Clause
MAXGROUP	Relationship to Person Groups	PERSONGROUP	PERSONGROUP = :PERSONGROUP

Database configuration OBJECT MAXUSER

A Field was added to the MAXUSER Business Object

Name	Description	Type	Other Conditions
SECROLE_ENABLED	Security Role Enabled	YORN	

A new relationship was created between MAXUSER and ACP_SECROLE_USERS

Name	Description	Object	Where Clause
USERSECROLES	Relationship to User Security Roles	ACP_SECROLE_USERS	USERID = :USERID
NC_SGROUPS	Relationship with Non-Compliant User/Security Groups	ACP_SECROLE_NC_SGROUPS	userid = :userid
NC_PGROUPS	Relationship with Non-Compliant User/Person Groups	ACP_SECROLE_NC_PGROUPS	userid = :userid

Domains

Name	Type	Values	Conditions	Description
ACP_SECROLE_STATUS	ALN(UPPER)	ACTIVE INACTIVE DRAFT		List of possible Security Role Status values
ACP_SECROLE_PGROUP	Table		Object: PERSONGROUP List: 1=1 Validate: 1=1	List of Person Groups used in the Security Role definition.

ACP_SECROLE_SGROUP	Table		Object: MAXGROUP List: 1=1 Validate: 1=1	List of Security Groups used in the Security Role definition.
ACP_SECROLE_USERS	Table		Object: MAXUSER List: 1=1 Validate: 1=1	List of Users used in the Security Role definition
ACP_SECROLE	Table		Object: ACP_SECROLE List: STATUS='ACTIVE' Validate: STATUS='ACTIVE'	List of Active Security Roles used in the selection of the Security Groups per user.

Lookups

A new Lookup was created called SECROLES in the Lookups.xml

Custom Applications

Two major customizations were developed to implement the Security Roles capability. The first is the actual Security Roles Application responsible for manage the Security Roles definition. The second is a customization of the Users Application to incorporate 2 changes.

Security Roles Application

Provides the ability to create a Security Role and associate the corresponding Security and Person groups. It also enables the association of users to the security role.

Creation Parameters

- Application Name: ACP_SECROL
- Description: ACP Security Roles
- Main Object: ACP_SECROLE
- Key Attribute: ACP_SECROLEID
- Module: Security
- Type: Power App

Screens

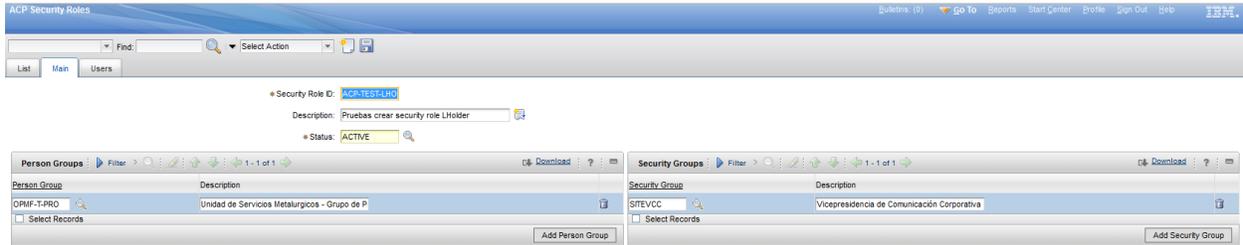
List



The screenshot shows the IBM Security Roles application interface. At the top, there is a navigation bar with 'List', 'Main', and 'Users' tabs. Below this is a search and filter area with 'Find:' and 'Select Action' dropdowns. The main content area displays a table of Security Roles. The table has columns for 'Security Role ID', 'Description', and 'Status'. One record is visible: 'ACP-TEST-LHOLDER' with the description 'Pruebas crear security role Lholder' and status 'ACTIVE'. The interface includes standard IBM navigation elements like 'Advanced Search', 'Save Query', and 'Bookmarks'.

Security Role ID	Description	Status
ACP-TEST-LHOLDER	Pruebas crear security role Lholder	ACTIVE

Main Page



Users Page



Signature Options

Two signature options were defined in the Security Roles Application:

Option	Description
APPLYROLES	Apply Security Roles to All Security Role Enabled Users
FORCEROLES	Enforce Security Roles to All Security Role Enabled Users

Select Action Menus

These Action Menus provide the ability to apply or enforce all the Security Roles defined. The Security Roles will be applied to all the uses that are Security Roles enabled (have the Security Role Enabled flag checked).

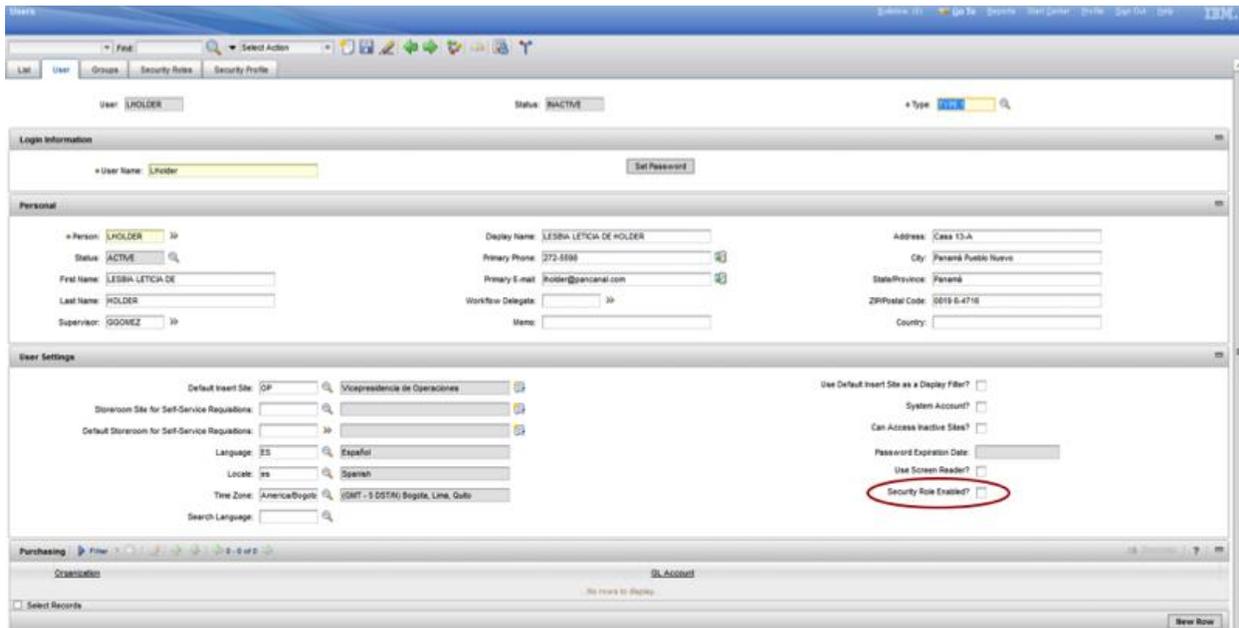
When the Security Roles are APPLIED, the solution logic will add the users to their corresponding Security and Person Groups based on the associated Security Roles.

When the Security Roles are ENFORCE, the solution logic will add the users to their corresponding Security and Person Groups based on the associated Security Roles and will also be removed from any security or person groups not associated with the Security Roles.

Element Type	Key Value	Description	Tabs
OPTION	APPLYROLES	Apply Security Roles to All Enabled Users	LIST
OPTION	FORCEROLES	Enforce Security Roles to All Enabled Users	LIST

Users Application

The default Users Application has been enhanced to include a Checkbox for the SECURITY_ENABLED field created on the MAXUSER MBO and a new Tab to manage the user related Security Roles.



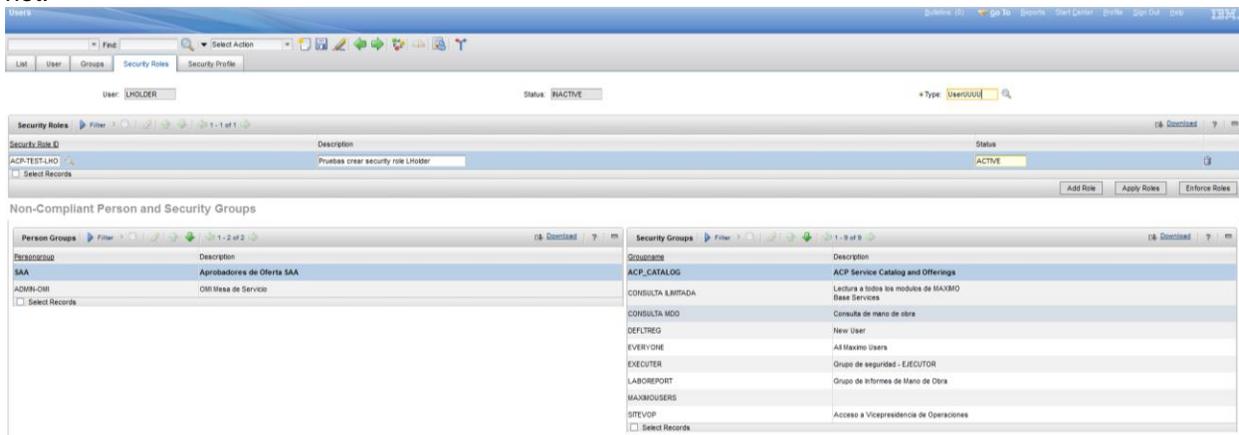
The screenshot shows the user profile for 'LHOLDER'. The 'Security Roles Enabled?' checkbox is circled in red. Other visible fields include: User Name: LHOLDER, Status: INACTIVE, Display Name: LESBA LETICIA DE HOLDER, Primary Phone: 272 6398, Address: Casa 13-A, City: Panamá Pueblo Nuevo, State/Province: Panamá, ZIP/Postal Code: 0819-6-4718, Country: [empty].

Security Roles Tab

The Security Roles Tab provides the ability to associate one or many Security Roles to the user. It also provides 2 buttons:

- **Apply Roles:** Add the user to its corresponding Security and Person Groups based on the associated Security Roles.
- **Enforce Roles:** Add the user to its corresponding Security and Person Groups based on the associated Security Roles and removes it from any groups not associated to the Security Roles.

In addition, the tab shows the non-compliant Security Groups and Person Groups currently associated with the user. This way the administrator can define validate if the current role configuration is correct or not.



The screenshot shows the Security Roles tab for user 'LHOLDER'. It displays a table of Security Roles and two tables for Non-Compliant Person and Security Groups.

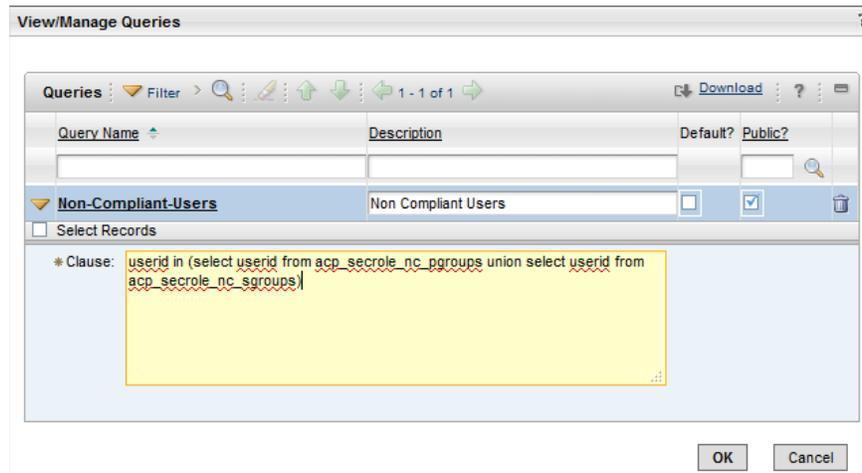
Security Role ID	Description	Status
ACP-TEST-LHO	Pruebas crear security role LHOLDER	ACTIVE

Person Group	Description
SAA	Aprobadores de Oferta SAA
ADMIN-OMI	OMI Mesa de Servicio

Groupname	Description
ACP_CATALOG	ACP Service Catalog and Offerings
CONSULTA LIMITADA	Lectura a todos los módulos de MAXIMO Base Services
CONSULTA MDO	Consulta de mano de obra
DEFLTREG	New User
EVERYONE	All Maximo Users
EXECUTOR	Grupo de seguridad - EJECUTOR
LABORREPORT	Grupo de Informes de Mano de Obra
MAXIMOUSERS	
SITEVOP	Acceso a Vicepresidencia de Operaciones

Public Query

An additional public query is created to simplify the identification of non-compliant user configurations. It applies only to users with the Security Roles Enabled flag set.



The query is:

userid in (select userid from acp_secrole_nc_pgroups union select userid from acp_secrole_nc_sgroups)

Messages

The following messages were defined in the Database Configuration:

Group	Key	Method	Message	Display ID	Buttons
SECROLE	APPLIED	Message Box	Security Roles were applied to {0} users	No	Close
SECROLE	ENFORCE	Message Box	Security Roles were enforced to {0} users	No	Close
SECROLE	USERAPPLIED	STATUS	Security Roles for the user {0} have been applied	No	
SECROLE	USERENFORCED	STATUS	Security Roles for the user {0} have been enforced	No	
SECROLE	ASKENFORCEALL	Message Box	Are you certain to enforce the Security Roles for ALL users? Enforcing the security roles will remove the users from any Person and Security Groups not associated to their roles.	No	Yes No
SECROLE	ASKENFORCE	Message Box	Are you certain to enforce the Security Roles for this user? Enforcing the security roles will remove the user from any Person and Security Groups not associated to the roles.	No	Yes No

Messages

Message Group	Message Key	Message ID Prefix	Value
SECROLE	APPLIED	BMXZZ	Security Roles were applied to {0} users
SECROLE	ASKENFORCE	BMXZZ	Are you certain to enforce the Security Roles 1
SECROLE	ASKENFORCEALL	BMXZZ	Are you certain to enforce the Security Roles 1
SECROLE	ENFORCE	BMXZZ	Security Roles were enforced to {0} users
SECROLE	USERAPPLIED	BMXZZ	Security Roles for the user {0} have been appl

OK

Cancel

18. Application Incident

Incident: 100021 Owner: Owner Group: SERVEDSK Status: CLOSED Attachments

Source: PHONECALL Created By: GALBA

User Information

Reported By: ACRIOS Affected Person: ACRIOS

Name: ADRIANA DEL CARMEN RIOS POVEDA Name: ADRIANA DEL CARMEN RIOS POVEDA

Phone: 276-8613 Phone: 276-8613

E-mail: acrios@pancanal.com E-mail: acrios@pancanal.com

Incident Details

Summary: AD2-CVMMI-Torniquetes de entrada y teatro

Details: Favor revisar ya que están defectuosos

Asset Site: VCC

Asset: Parent: Location: GL Account: Virtualized Environment? Configuration Item: Configuration Item Name: Target Description:

Classification: COMPUTADORAS

Classification Path: TI \ COMPUTACIÓN \ COMPUTADORAS

Class Description: COMPUTADORAS

Indicated Priority: Reported Priority: Impact: 3 Medium Urgency: 1 Critical Internal Priority: 2 High

Service Group: Service: Vendor: Site: TEC

SLA Applied? Accumulate SLA Hold Time? Create WO Options: MULTI Response Plan:

19. Application: ACP Impact Urgency Form

ID	Type	Impact Type	Value	Order	Application	Description
143	URGENCIA		1	10	PROBLEM	Máximo 4 horas
184	IMPACTO	USUARIOS	1	05	SR	Todos los Usuarios de ACP
185	IMPACTO	USUARIOS	1	06	SR	Administrador o Sub-Administrador
186	IMPACTO	USUARIOS	2	07	SR	Vice-Presidente y Gerentes
179	IMPACTO	EQUIPOS_SISTEMAS	1	01	SR	Relacionado Directamente al Tránsito
180	IMPACTO	EQUIPOS_SISTEMAS	1	02	SR	Relacionado a Seguridad Física
181	IMPACTO	EQUIPOS_SISTEMAS	2	03	SR	Relacionado Indirectamente al Tránsito
182	IMPACTO	EQUIPOS_SISTEMAS	3	04	SR	No Relacionado al Tránsito
183	IMPACTO	USUARIOS	3	08	SR	Grupo de Colaboradores en una Oficina o Ed
4	IMPACTO	EQUIPOS_SISTEMAS	1	01	INCIDENT	Afecta Directamente el Tránsito
13	URGENCIA		1	10	INCIDENT	Máximo 4 horas
15	URGENCIA		2	11	INCIDENT	Máximo 8 horas
5	IMPACTO	EQUIPOS_SISTEMAS	2	02	INCIDENT	Afecta Indirectamente el Tránsito
193	IMPACTO		1	01	CHANGE	Servicios Críticos, más de 50% de colaborad
189	IMPACTO		2	03	CHANGE	Servicio No Crítico, Degradación No Aceptab

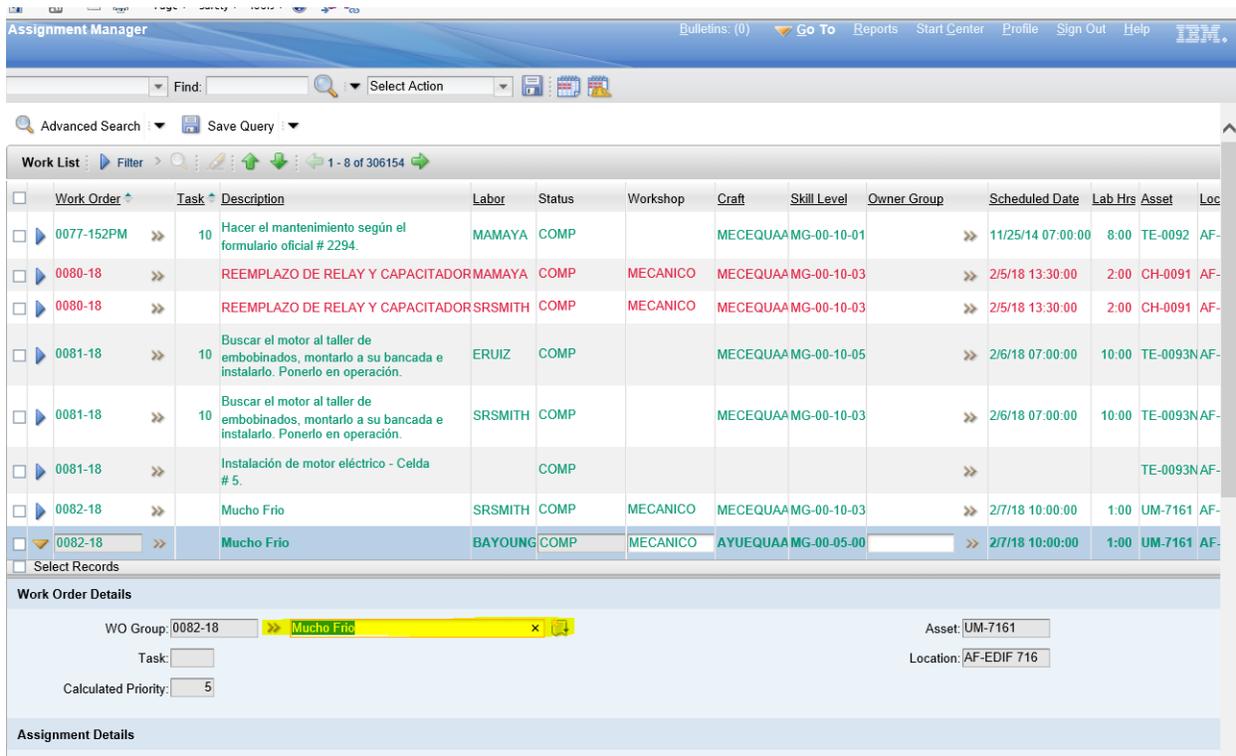
Select Records New Row

Signature option: Delete

Database Configuration

Attribute	Description	Type	Length	Scale	Required
ACP_APP	Acp_app	UPPER	16	0	N
ACP_FORMIMPURGID	Acp_formimpurgid	INTEGER	12	0	Y
ACP_IMPACTTYPE	Impact Type	ALN	50	0	N
ACP_ORD	Acp_ord	UPPER	10	0	N
ACP_TYPE	Type (urgencia o Impacto)	ALN	50	0	N
ACP_VALUE	Value	INTEGER	12	0	N
DESCRIPTION	Description	ALN	50	0	N
DESCRIPTION_LONGDESCRIPTION	Description_longdescription	LONGALN	32000	0	N
HASLD	Hasld	YORN	1	0	Y

20. Application Assignment Manager



The screenshot displays the IBM Maximo Assignment Manager interface. At the top, there is a navigation bar with options like 'Go To', 'Reports', 'Start Center', 'Profile', 'Sign Out', and 'Help'. Below this is a search bar and a 'Select Action' dropdown. The main area shows a 'Work List' table with columns for Work Order, Task, Description, Labor, Status, Workshop, Craft, Skill Level, Owner Group, Scheduled Date, Lab Hrs, Asset, and Location. The table contains several rows of work orders, with the last one selected. Below the table, there is a 'Work Order Details' section showing the selected work order's information, including the WO Group (0082-18), Task (Mucho Frio), Asset (UM-7161), and Location (AF-EDIF 716). The 'Assignment Details' section is partially visible at the bottom.

Work Order	Task	Description	Labor	Status	Workshop	Craft	Skill Level	Owner Group	Scheduled Date	Lab Hrs	Asset	Loc
0077-152PM	10	Hacer el mantenimiento según el formulario oficial # 2294.	MAMAYA	COMP		MECEQUAA	MG-00-10-01		11/25/14 07:00:00	8.00	TE-0092	AF-
0080-18		REEMPLAZO DE RELAY Y CAPACITADOR MAMAYA	MAMAYA	COMP	MECANICO	MECEQUAA	MG-00-10-03		2/5/18 13:30:00	2.00	CH-0091	AF-
0080-18		REEMPLAZO DE RELAY Y CAPACITADOR SRSMITH	SRSMITH	COMP	MECANICO	MECEQUAA	MG-00-10-03		2/5/18 13:30:00	2.00	CH-0091	AF-
0081-18	10	Buscar el motor al taller de embobinados, montarlo a su bancada e instalarlo. Ponerlo en operación.	ERUIZ	COMP		MECEQUAA	MG-00-10-05		2/6/18 07:00:00	10.00	TE-0093N	AF-
0081-18	10	Buscar el motor al taller de embobinados, montarlo a su bancada e instalarlo. Ponerlo en operación.	SRSMITH	COMP		MECEQUAA	MG-00-10-03		2/6/18 07:00:00	10.00	TE-0093N	AF-
0081-18		Instalación de motor eléctrico - Celda # 5.		COMP							TE-0093N	AF-
0082-18		Mucho Frio	SRSMITH	COMP	MECANICO	MECEQUAA	MG-00-10-03		2/7/18 10:00:00	1.00	UM-7161	AF-
0082-18		Mucho Frio	BAYOUNG	COMP	MECANICO	AYUEQUAA	MG-00-05-00		2/7/18 10:00:00	1.00	UM-7161	AF-

Work Order Details

WO Group: 0082-18 >> Mucho Frio

Asset: UM-7161

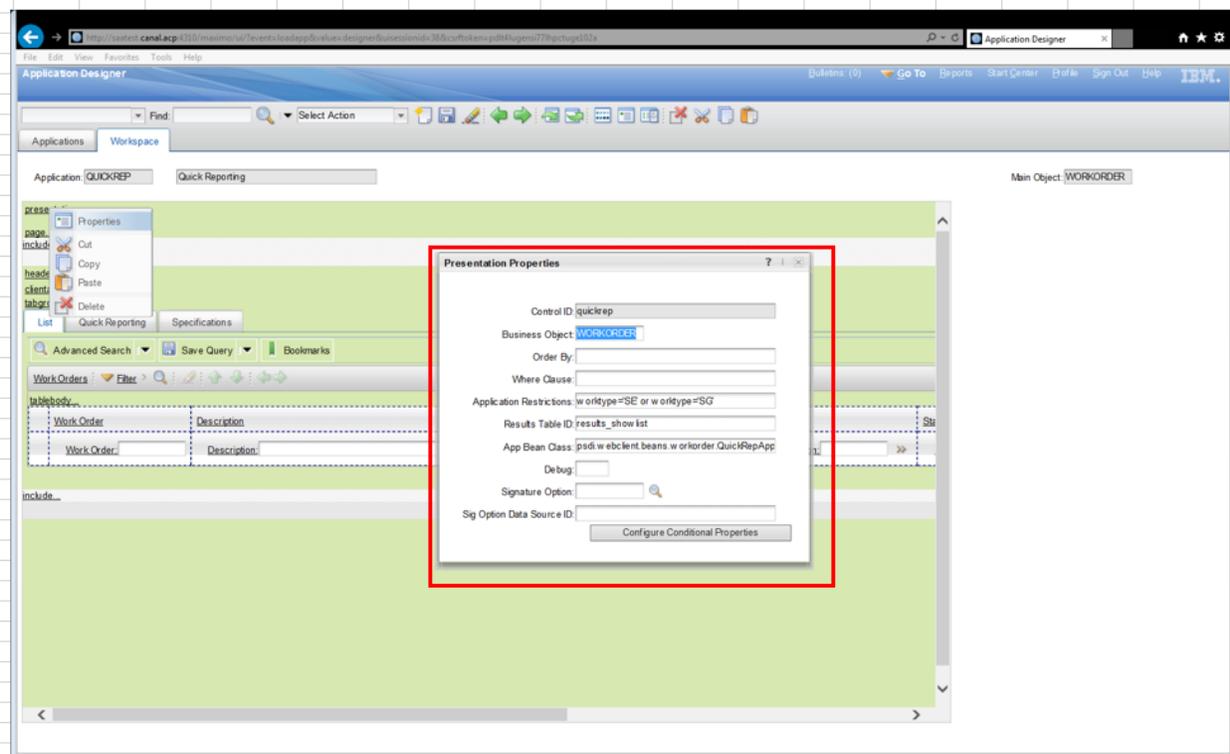
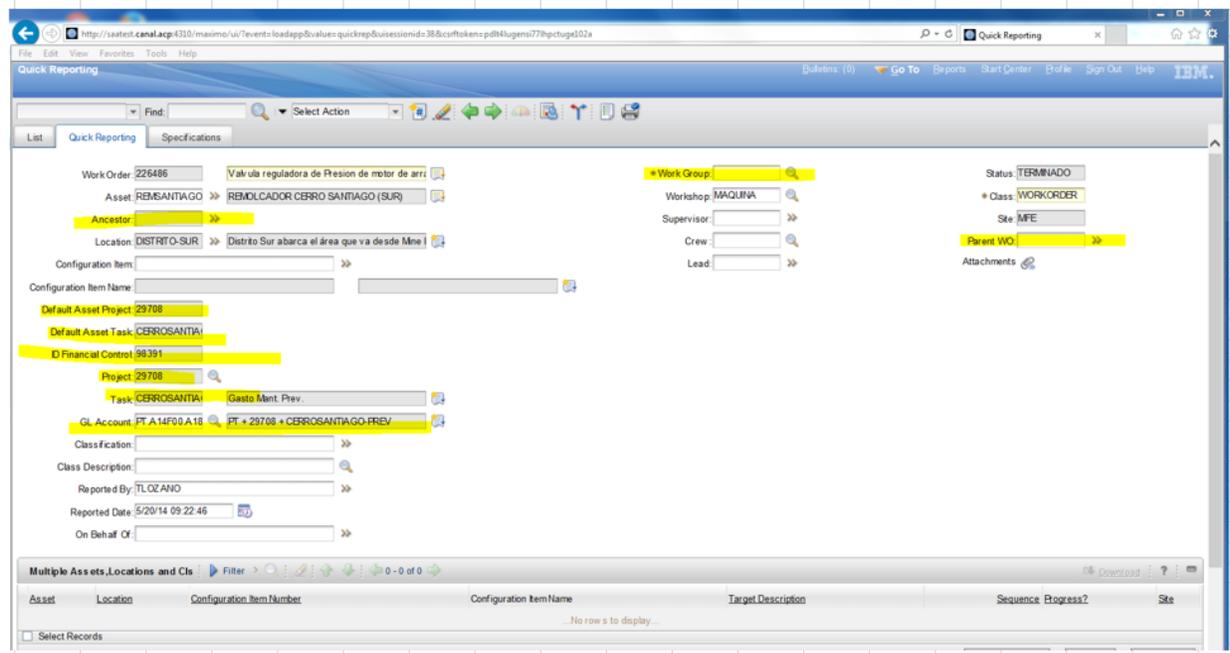
Task:

Location: AF-EDIF 716

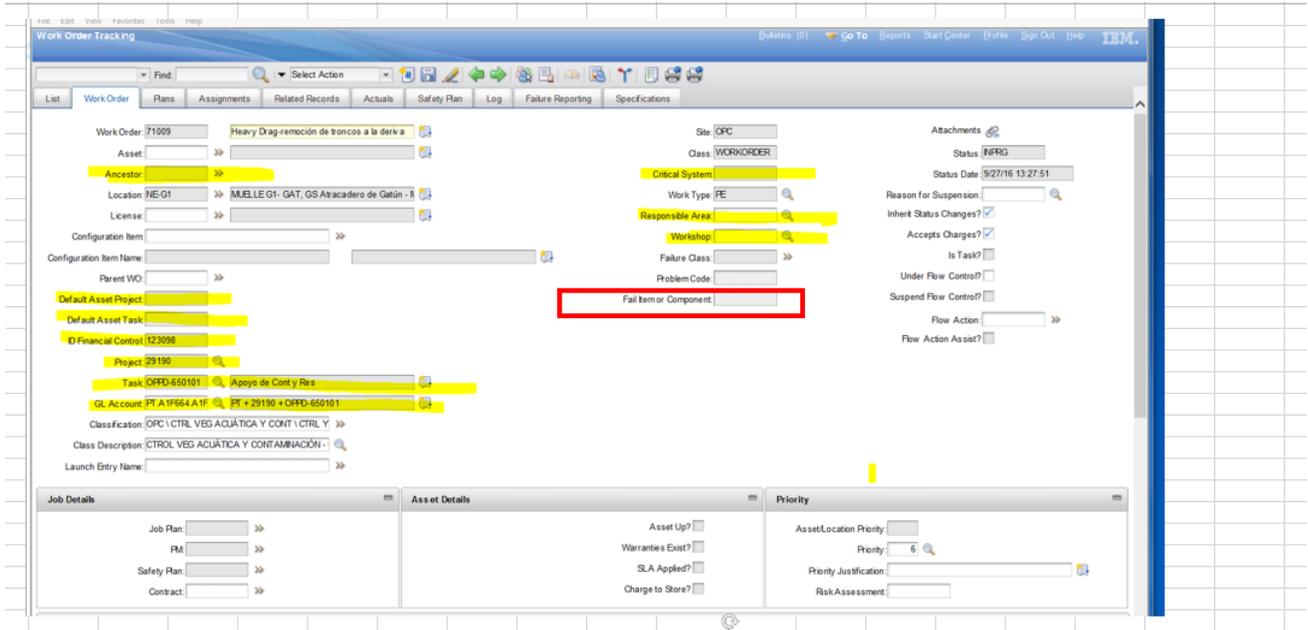
Calculated Priority: 5

Assignment Details

21. Application Quick Reporting



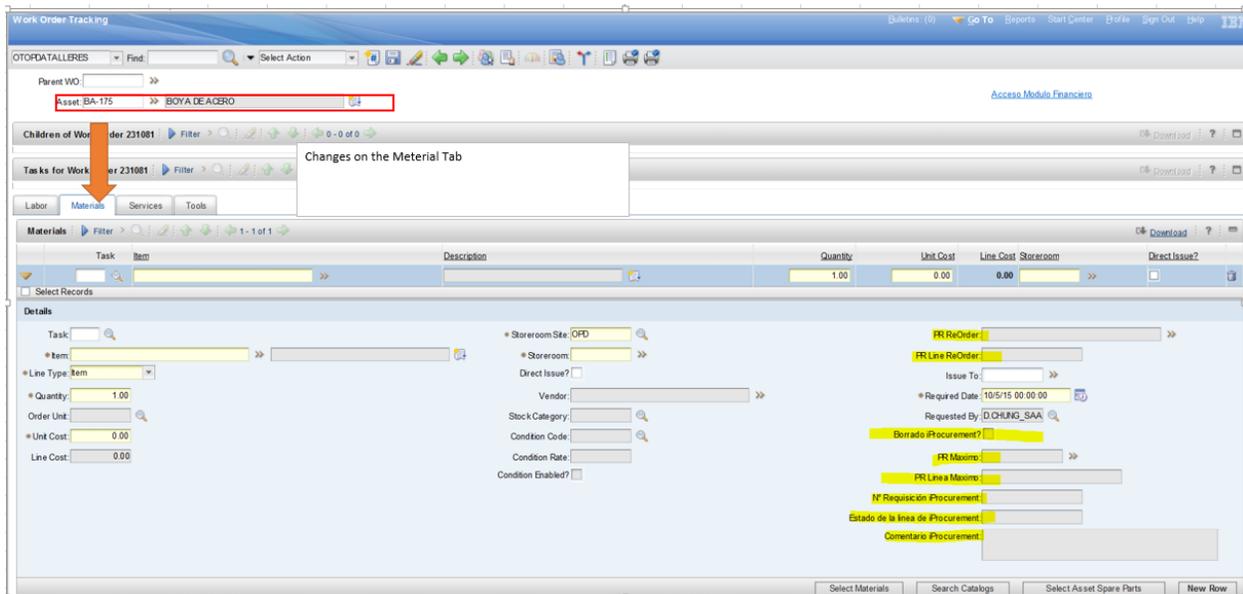
22. Application: work order tracking



The screenshot shows the IBM Maximo Work Order Tracking interface. The main window displays a work order for 'Heavy Drag-remoción de troncos a la deriva'. Key fields include:

- Work Order:** 71009
- Asset:** MUELLE G1 - GAT, GS Almacadero de Galón
- Location:** MUELLE G1 - GAT, GS Almacadero de Galón
- Class:** WORKORDER
- Status:** INFRG
- Status Date:** 9/27/16 13:27:51
- Fail Item or Component:** (highlighted with a red box)

Below the main form, there are three tabs: Job Details, Asset Details, and Priority. The Job Details tab shows fields for Job Plan, PM, Safety Plan, and Contract. The Asset Details tab shows Asset Up?, Warranties Exist?, SLA Applied?, and Charge to Store?. The Priority tab shows Asset Location Priority, Priority (set to 6), Priority Justification, and Risk Assessment.



The screenshot shows the Materials tab for work order 231081. The main table displays the following data:

Task	Item	Description	Quantity	Unit Cost	Line Cost	Storeroom	Direct Issue?
			1.00	0.00	0.00		

The Details section below the table includes fields for:

- Task:** [Searchable]
- Item:** [Searchable]
- Line Type:** Item
- Quantity:** 1.00
- Order Unit:** [Searchable]
- Unit Cost:** 0.00
- Line Cost:** 0.00
- Storeroom Site:** OFD
- Storeroom:** [Searchable]
- Direct Issue?** [Checkbox]
- Vendor:** [Searchable]
- Stock Category:** [Searchable]
- Condition Code:** [Searchable]
- Condition Rate:** [Searchable]
- Condition Enabled?** [Checkbox]
- PR ReOrder:** [Searchable]
- PR Line ReOrder:** [Searchable]
- Issue To:** [Searchable]
- Required Date:** 10/5/15 00:00:00
- Requested By:** D.CHUNG_SAA
- Borrado (Procurement):** [Searchable]
- PR Maximo:** [Searchable]
- PR Line Maximo:** [Searchable]
- N Requisición Procurement:** [Searchable]
- Estado de la línea de Procurement:** [Searchable]
- Comentario (Procurement):** [Text Area]

Work Order Tracking

OTOPDATALLERES

List Work Order Plans Assignments Related Records Actuals Safety Plan Log Failure Reporting Specifications

Work Order: 231081 PINTURA, Rehabilitación de boya 85-4 Ste: OFD Status: PLAN

Parent WO: >>

Asset: BA-175 >> BOYA DE ACERO

Children of Work Order 231081 Filter > 0 - 0 of 0

Tasks for Work Order 231081 Filter > 0 - 0 of 0

Labor Materials Services Tools

Services Filter > 1 - 1 of 1

Task	Service	Description	Quantity	Unit Cost	Line Cost
			1.00	0.00	0.00

Details

Task: >>

Quantity: 1.00

Required Date: 10/5/15 00:00:00

Line Type: Service

Order Unit: >>

Requested By: D.CHUNG_SAA

Service: >>

Unit Cost: 0.00

Vendor: >>

Line Cost: 0.00

Issue To: >>

FR ReOrder: >>

FR Line ReOrder: >>

Borrado Procurement?: >>

FR Maximo: >>

FR Linea Maximo: >>

Nº Requisición Procurement: >>

Estado de la línea de Procurement: >>

Comentario Procurement: >>

Work Order Tracking

OTOPDATALLERES

List Work Order Plans Assignments Related Records Actuals Safety Plan Log Failure Reporting Specifications

Work Order: 156845 TALLER PINTURA: CAPACITACION Ste: OFD Status: ENEJEC

Parent WO: >>

Asset: >>

Children of Work Order 156845 Filter > 0 - 0 of 0

Labor Materials Services Tools

Labor Filter > 1 - 6 of 505

Task Labor	Employee Number	Craft	Name	Approved?	Start Date	Start Time	End Time	Regular Hours	Line Cost
JCHAVEZ >>	2750791	TB/PINTU	JOSE CARLOS CHAVEZ	✓	11/15/12	07:00:00	15:30:00	8.00	55.28
JOLURODRIGUI >>	2727056	TB/PINTU	JOSELUS RODRIGUEZ MORALES	✓	11/15/12	07:00:00	15:30:00	8.00	56.32
OBYAN >>	1877178	PINT OLDR	OSCAR MORENO BRYAN WHIGHAM	✓	11/15/12	07:00:00	15:30:00	8.00	93.76
JCHAVEZ >>	2750791	TB/PINTU	JOSE CARLOS CHAVEZ	✓	11/15/12	07:00:00	15:30:00	8.00	55.28
JOLURODRIGUI >>	2727056	TB/PINTU	JOSELUS RODRIGUEZ MORALES	✓	11/15/12	07:00:00	15:30:00	8.00	56.32
OBYAN >>	1877178	PINT OLDR	OSCAR MORENO BRYAN WHIGHAM	✓	11/16/12	07:00:00	15:30:00	8.00	93.76

Select Labor Select Planned Labor New Row

Work Order Tracking

OTOPDATALLERES Find Select Action

List Work Order Plans Assignments Related Records **Actuals** Safety Plan Log Failure Reporting Specifications

Work Order: 156852 TALLER PINTURA: ASISTIR A REUNIONES DE Site: OFD Status: COMP

Parent WO: Asset:

Children of Work Order 156852 Filter 1 - 3 of 3

Labor Materials Services Tools

Materials Filter 1 - 6 of 54

Task	Description	Transaction Type	Storeroom	Order Unit	Quantity	Issue Unit
PFE-GLO-00005	INV-GLOVE, PVC COATED, Old SN 035-4024	ISSUE	MK-EDF-29X	Pr	6.00	Pr
PFE-GLO-00008	INV-COVERALLS, DISPOSABLE, WHITE, XL, C	ISSUE	MK-EDF-29X	Each	50.00	Box
PFE-GLO-00005	INV-GLOVE, PVC COATED, Old SN 035-4024	ISSUE	MK-EDF-29X	Pr	6.00	Pr
PFE-GLO-00007	INV-GLOVES, COTTON, GAUNTLET, REGULAF	ISSUE	MK-EDF-29X	Pr	32.00	Pr
PFE-GLO-00014	INV-PREMIUM GRAIN LEATHER, COWHIDE, SAI	ISSUE	MK-EDF-29X	Pr	3.00	Pr
PFE-RES-00033	INV-RESPIRATOR, HALF - MASK - LARGE, ND	ISSUE	MK-EDF-29X	Each	1.00	Each

Details

Site: OFD Order Unit: Pr Lot: Expiration Date: Lot Type: XLOLOT Condition Code: Rate Percentage: 100 Condition Enabled?

Storeroom: MK-EDF-29X Quantity: 6.00 Issue Unit: Pr Unit Cost: 123.00 Stock Category: STK Conversion Factor: 1.00

Bin: Task: Line Type: Item Transaction Type: ISSUE Item: PFE-GLO-00005 INV-GLOVE, PVC COATED, Old SN 035-4024 Issued Date: 11/7/12 11:11:47 Issued To: OBRYAN Entered By: ASHAMBO

Line Cost: 738.00 Memo: 956879

Charge Information

Request: Request Line: Request OEBS: Request Line OEBS: Location: OPDA SECCION DE APOYO PO: PO Line: Packing Slip: Asset: Rotating Asset: GL Debt Account: GL Credit Account: Outside?

Work Order Tracking

List Work Order Plans Assignments Related Records **Actuals** **Safety Plan** Log Failure Reporting Specifications

Work Order: 156852 TALLER PINTURA: ASISTIR A REUNIONES DE Site: OFD Status: COMP

Asset:

Hazards and Precautions Hazardous Materials Lock Out/Tag Out

Hazards Filter 0 - 0 of 0

Hazard	Hazard Description	Hazard Type	Related Location	Related Asset
..No rows to display..				

Select Records New Row

Precautions Filter 0 - 0 of 0

Precaution	Description
..No rows to display..	

Select Records New Row

Work Order Tracking

Find: [] Select Action []

List WorkOrder Plans Assignments Related Records Actuals Safety Plan **Log** Failure Reporting Specifications

Work Order: 156852 TALLER PINTURA: ASISTR A REUNIONES DE Site: OPD Status: COMP

Asset: []

Work Log Communication Log

Work Logs: Filter [] 1 - 6 of 6 [] Download []

Record	Class	Created By	Date	Type	Summary	Log Date	Log Shift	Viewable?
156852	WORKORDER	OANDRADE	7/22/13 09:23:27	ACTUALIZACI	Requisition 609108			<input type="checkbox"/>
156852	WORKORDER	OANDRADE	7/18/13 10:24:22	ACTUALIZACO	Requisition 608663			<input type="checkbox"/>
156852	WORKORDER	OANDRADE	7/15/13 10:04:53	ACTUALIZACO	Requisition 607932			<input type="checkbox"/>
156852	WORKORDER	OANDRADE	7/8/13 11:25:16	ACTUALIZACO	Requisition 606329			<input type="checkbox"/>
156852	WORKORDER	OANDRADE	6/25/13 11:12:27	ACTUALIZACO	IR 604242			<input type="checkbox"/>
156852	WORKORDER	LPGONZALEZ	6/21/13 10:17:15	ACTUALIZACO	Requisition 603173			<input type="checkbox"/>

Select Records [] New Row

Work Order Tracking

Find: [] Select Action []

List WorkOrder Plans Assignments Related Records Actuals Safety Plan Log **Failure Reporting** Specifications

Work Order: 156852 TALLER PINTURA: ASISTR A REUNIONES DE Site: OPD Status: COMP

Asset: []

Failure Details

Failure Class: [] Fail Item or Component: []

Failed Date: [] Remarks: []

Remark Date: []

Failure Codes: Filter [] 0 - 0 of 0 [] Download []

Type	Failure Code	Description
...No rows to display...		

Select Records [] Select Failure Codes

Work Order Tracking

Find: [] Select Action []

List WorkOrder Plans Assignments Related Records Actuals Safety Plan Log Failure Reporting **Specifications**

Work Order: 156852 TALLER PINTURA: ASISTR A REUNIONES DE Site: OPD Status: COMP

Asset: []

Classification: []

Class Description: []

Specifications: Filter [] 0 - 0 of 0 [] Download []

Attribute	Description	Data Type	Alphanumeric Value	Numeric Value	Unit of Measure	Table Value
...No rows to display...						

Select Records [] New Row

Work Order Tracking

File Edit View Favorites Tools Help

Bulletins: (0) Go To Reports Start Cen

Find: []

List WorkOrder Plans Assignments Rela

Work Order: 2682830 MANTENIMIENTO

Asset: LO100 Locomotora #1

Ancestor: []

Location: OPEP-MF-MC Muro Central de

License: []

Configuration Item: []

Configuration Item Name: []

Parent WO: []

Default Asset Project: 27627

Default Asset Task: OPE MAN LOCC

ID Financial Control: 82398

Project: 27627

Task: OPE MAN LOCC Mantenimiento de

GL Account: PT.A13F6EA14 PT + 27627 + C

Classification: []

Class Description: []

Launch Entry Name: []

Job Details

Job Plan: LO-03-20

PM: LO-03100

Safety Plan: []

Contract: []

Report Downtime

To change the asset's current status from UP to DOWN or DOWN to UP, select Change Status. To record the start and end of the asset's downtime, which leaves the asset in its current status, select Report Downtime.

Asset: LO100 Locomotora #100; modelo M2000

Asset Up?

Downtime Report

Change Status

Control Number: 400,859

Status Date: 9/15/17 11:07:52

Downtime Code: []

Change By: D.CHUNG_SAA

Reported By: []

Memo: []

Report Downtime

Start Date: []

End Date: []

Hours: []

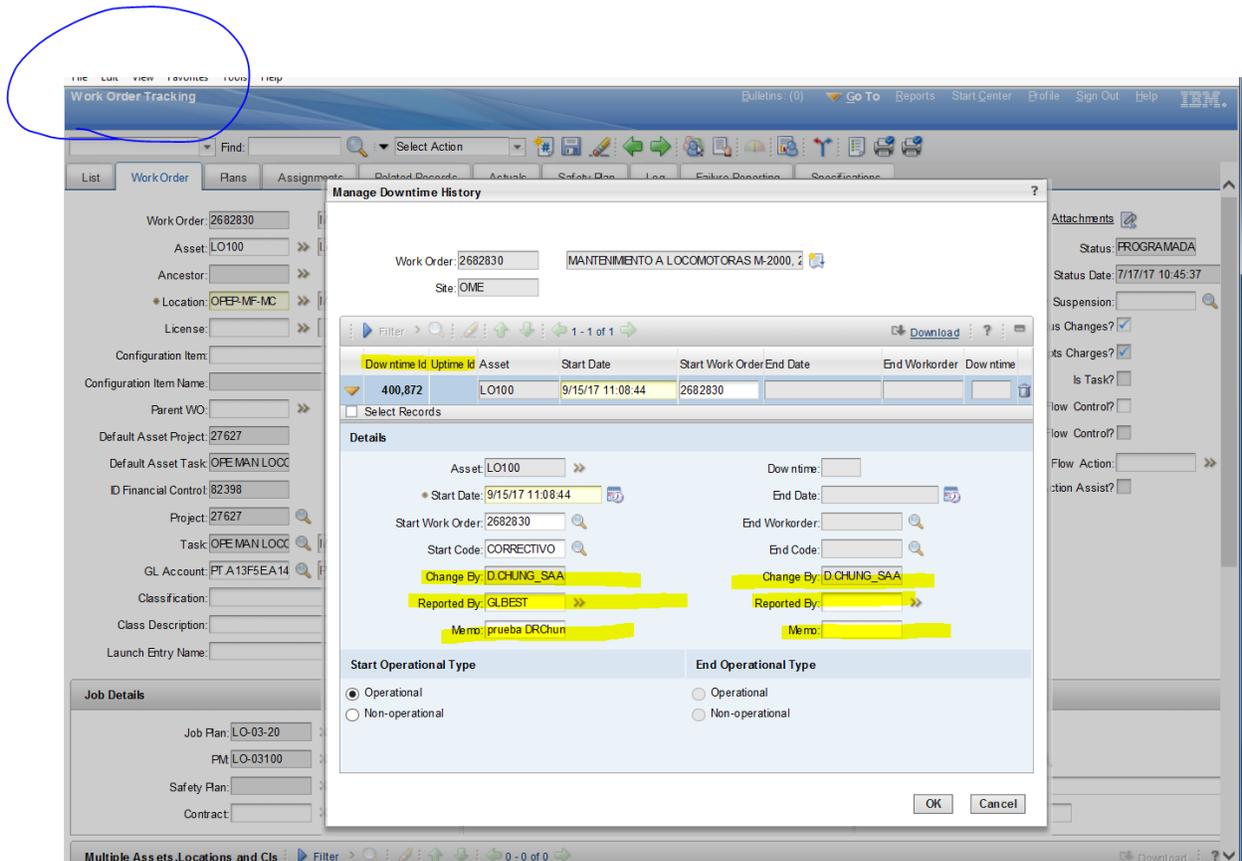
Downtime Code: []

Change By: D.CHUNG_SAA

Reported By: []

Memo: []

OK Cancel



APP	DESCRIPTION	MAXOBJECT	CLASSNAME
WOTRACK	Work Order Tracking	WORKORDER	com.acp.beans.ACPWOCanchangestatusBean

SERVICENAME	OBJECTNAME	ATTRIBUTENAME	TITLE	PERSISTENT	MAXTYPE	LENGTH
FAILURE	FAILURECODE	ACP_FCTYPE	Failure Type	1	UPPER	1
FAILURE	FAILURELIST	ACP_FCTYPE	Failure Type	1	UPPER	1

SERVICENAME	OBJECTNAME	ATTRIBUTENAME	TITLE	PERSIS TENT	MAXTYPE	LENGTH
WORKORDER	PLUSTVR	ACP_APPROVERGRP	Approver Group	1	UPPER	16
WORKORDER	PLUSTVR	ACP_AREA	Responsible Area	1	UPPER	30
WORKORDER	PLUSTVR	ACP_COMPGRP	Completion Group	1	UPPER	16
WORKORDER	PLUSTVR	ACP_EXECGRP	Acp_execgrp	1	UPPER	16
WORKORDER	PLUSTVR	ACP_FORMIMPACT	Acp_formimpact	1	ALN	50
WORKORDER	PLUSTVR	ACP_FORMURGENCY	Acp_formurgency	1	ALN	50
WORKORDER	PLUSTVR	ACP_INSPGRP	Acp_inspgrp	1	UPPER	16
WORKORDER	PLUSTVR	ACP_MGRGRP	Manager Group	1	UPPER	16
WORKORDER	PLUSTVR	ACP_PLANGRP	Planner Group	1	UPPER	16
WORKORDER	PLUSTVR	ACP_PROGGRP	Scheduler Group	1	UPPER	16
WORKORDER	PLUSTVR	ACP_PROJECT	Project	1	ALN	50
WORKORDER	PLUSTVR	ACP_REASONFORCHANGE	ACP_REASONFORCHANGE	1	ALN	50
WORKORDER	PLUSTVR	ACP_REVGRP	Reviewer Group	1	UPPER	16
WORKORDER	PLUSTVR	ACP_SETXREF	Acp_setxref	1	UPPER	1
WORKORDER	PLUSTVR	ACP_SUSPREASON	Reason for Suspension	1	UPPER	8
WORKORDER	PLUSTVR	ACP_TASK	Task	1	ALN	50
WORKORDER	PLUSTVR	ACP_WOLIMIT	Work Order Approval Limit	1	AMOUNT	10
WORKORDER	PLUSTVR	ACP_WORKSHOP	Workshop	1	UPPER	12
WORKORDER	PMCFGWO	ACP_APPROVERGRP	Approver Group	1	UPPER	16
WORKORDER	PMCFGWO	ACP_AREA	Responsible Area	1	UPPER	30
WORKORDER	PMCFGWO	ACP_COMPGRP	Completion Group	1	UPPER	16
WORKORDER	PMCFGWO	ACP_EXECGRP	Executer Group	1	UPPER	16
WORKORDER	PMCFGWO	ACP_FORMIMPACT	Acp_formimpact	1	ALN	50
WORKORDER	PMCFGWO	ACP_FORMURGENCY	Acp_formurgency	1	ALN	50
WORKORDER	PMCFGWO	ACP_INSPGRP	Inspector Group	1	UPPER	16

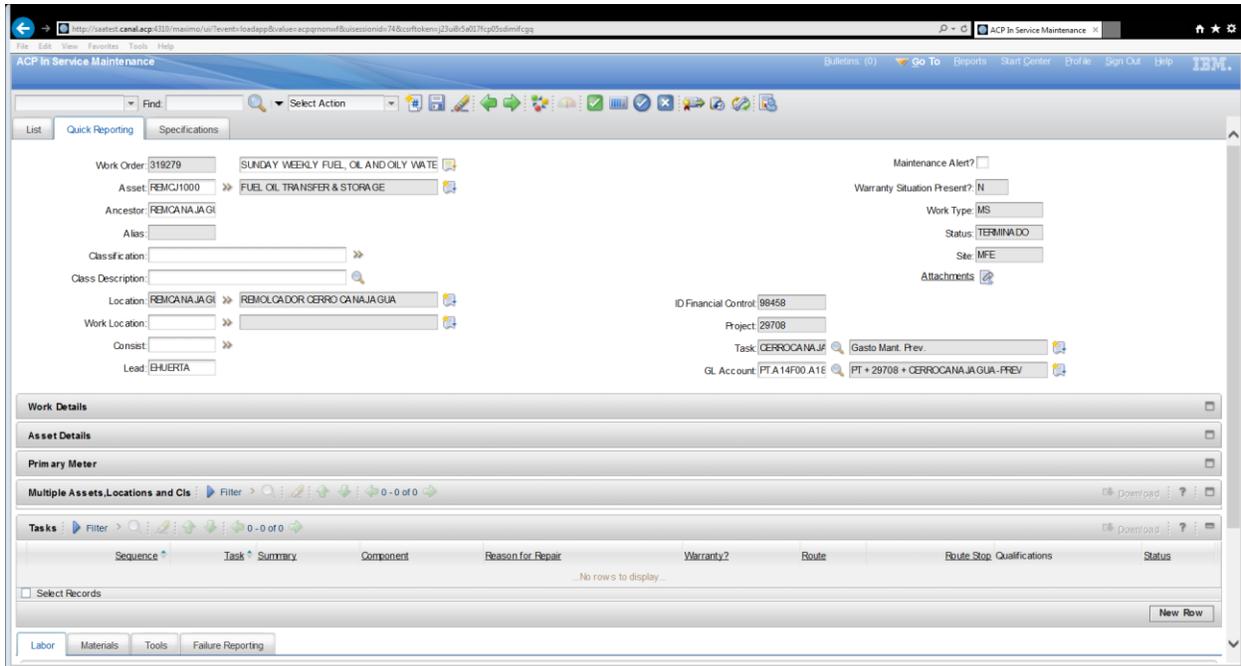
WORKORDER	PMCFGWO	ACP_MGRGRP	Manager Group	1	UPPER	16
WORKORDER	PMCFGWO	ACP_PLANGRP	Planner Group	1	UPPER	16
WORKORDER	PMCFGWO	ACP_PROGGRP	Scheduler Group	1	UPPER	16
WORKORDER	PMCFGWO	ACP_PROJECT	Project	1	ALN	50
7WORKORDER	PMCFGWO	ACP_REASONFORCHANGE	ACP_REASONFORCHANGE	1	ALN	50
WORKORDER	PMCFGWO	ACP_REVGRP	Reviewer Group	1	UPPER	16
WORKORDER	PMCFGWO	ACP_SETXREF	Set Cross Reference	1	UPPER	1
WORKORDER	PMCFGWO	ACP_SUSPREASON	Reason for Suspension	1	UPPER	8
WORKORDER	PMCFGWO	ACP_TASK	Task	1	ALN	50
WORKORDER	PMCFGWO	ACP_WOLIMIT	Work Order Approval Limit	1	AMOUNT	10
WORKORDER	PMCFGWO	ACP_WORKSHOP	Workshop	1	UPPER	12
WORKORDER	WOACTIVITY	ACP_APPROVERGRP	Approver Group	1	UPPER	16
WORKORDER	WOACTIVITY	ACP_AREA	~null~	1	UPPER	30
WORKORDER	WOACTIVITY	ACP_COMPGRP	Completion Group	1	UPPER	16
WORKORDER	WOACTIVITY	ACP_EXECGRP	Acp_execgrp	1	UPPER	16
WORKORDER	WOACTIVITY	ACP_FORMIMPACT	Acp_formimpact	1	ALN	50
WORKORDER	WOACTIVITY	ACP_FORMURGENCY	Acp_formurgency	1	ALN	50
WORKORDER	WOACTIVITY	ACP_INSPGRP	Acp_inspgrp	1	UPPER	16
WORKORDER	WOACTIVITY	ACP_MGRGRP	Manager Group	1	UPPER	16
WORKORDER	WOACTIVITY	ACP_PLANGRP	Planner Group	1	UPPER	16
WORKORDER	WOACTIVITY	ACP_PROGGRP	Scheduler Group	1	UPPER	16
WORKORDER	WOACTIVITY	ACP_PROJECT	~null~	1	ALN	50
WORKORDER	WOACTIVITY	ACP_REASONFORCHANGE	ACP_REASONFORCHANGE	1	ALN	50
WORKORDER	WOACTIVITY	ACP_REVGRP	Reviewer Group	1	UPPER	16
WORKORDER	WOACTIVITY	ACP_SETXREF	Acp_setxref	1	UPPER	1
WORKORDER	WOACTIVITY	ACP_SUSPREASON	~null~	1	UPPER	8
WORKORDER	WOACTIVITY	ACP_TASK	~null~	1	ALN	50
WORKORDER	WOACTIVITY	ACP_WOLIMIT	Work Order Approval Limit	1	AMOUNT	10
WORKORDER	WOACTIVITY	ACP_WORKSHOP	~null~	1	UPPER	12

WORKORDER	WOCHANGE	ACP_APPROVERGRP	Approver Group	1	UPPER	16
WORKORDER	WOCHANGE	ACP_AREA	~null~	1	UPPER	30
WORKORDER	WOCHANGE	ACP_COMPGRP	Completion Group	1	UPPER	16
WORKORDER	WOCHANGE	ACP_EXECGRP	Acp_execgrp	1	UPPER	16
WORKORDER	WOCHANGE	ACP_FORMIMPACT	Acp_formimpact	1	ALN	50
WORKORDER	WOCHANGE	ACP_FORMURGENCY	Acp_formurgency	1	ALN	50
WORKORDER	WOCHANGE	ACP_INSPGRP	Acp_inspgrp	1	UPPER	16
WORKORDER	WOCHANGE	ACP_MGRGRP	Manager Group	1	UPPER	16
WORKORDER	WOCHANGE	ACP_PLANGRP	Planner Group	1	UPPER	16
WORKORDER	WOCHANGE	ACP_PROGGRP	Scheduler Group	1	UPPER	16
WORKORDER	WOCHANGE	ACP_PROJECT	~null~	1	ALN	50
WORKORDER	WOCHANGE	ACP_REASONFORCHANGE	ACP_REASONFORCHANGE	1	ALN	50
WORKORDER	WOCHANGE	ACP_REVGRP	Reviewer Group	1	UPPER	16
WORKORDER	WOCHANGE	ACP_SETXREF	Acp_setxref	1	UPPER	1
WORKORDER	WOCHANGE	ACP_SUSPREASON	~null~	1	UPPER	8
WORKORDER	WOCHANGE	ACP_TASK	~null~	1	ALN	50
WORKORDER	WOCHANGE	ACP_WOLIMIT	Work Order Approval Limit	1	AMOUNT	10
WORKORDER	WOCHANGE	ACP_WORKSHOP	~null~	1	UPPER	12
WORKORDER	WORKORDER	ACP_APPROVERGRP	Approver Group	1	UPPER	16
WORKORDER	WORKORDER	ACP_AREA	Responsible Area	1	UPPER	30
WORKORDER	WORKORDER	ACP_COMPGRP	Completion Group	1	UPPER	16
WORKORDER	WORKORDER	ACP_EXECGRP	Executer Group	1	UPPER	16
WORKORDER	WORKORDER	ACP_FORMIMPACT	Acp_formimpact	1	ALN	50
WORKORDER	WORKORDER	ACP_FORMURGENCY	Acp_formurgency	1	ALN	50
WORKORDER	WORKORDER	ACP_INSPGRP	Inspector Group	1	UPPER	16
WORKORDER	WORKORDER	ACP_MGRGRP	Manager Group	1	UPPER	16
WORKORDER	WORKORDER	ACP_PLANGRP	Planner Group	1	UPPER	16
WORKORDER	WORKORDER	ACP_PROGGRP	Scheduler Group	1	UPPER	16

WORKORDER	WORKORDER	ACP_PROJECT	Project	1	ALN	50
WORKORDER	WORKORDER	ACP_REASONFORCHANGE	ACP_REASONFORCHANGE	1	ALN	50
WORKORDER	WORKORDER	ACP_REVGRP	Reviewer Group	1	UPPER	16
WORKORDER	WORKORDER	ACP_SETXREF	Set Cross Reference	1	UPPER	1
WORKORDER	WORKORDER	ACP_SUSPREASON	Reason for Suspension	1	UPPER	8
WORKORDER	WORKORDER	ACP_TASK	Task	1	ALN	50
WORKORDER	WORKORDER	ACP_WOLIMIT	Work Order Approval Limit	1	AMOUNT	10
WORKORDER	WORKORDER	ACP_WORKSHOP	Workshop	1	UPPER	12
WORKORDER	WPITEM	ACP_DELETEORACLE	Borrado iProcurement	1	YORN	1
WORKORDER	WPITEM	ACP_ORIGEN_ORACLE	GEN ORACLE?	1	YORN	1
WORKORDER	WPITEM	ACP_PRDISTIDIPROC	Id de la distribucion de la linea en iProcurement	1	INTEGER	12
WORKORDER	WPITEM	ACP_PRLINEIDIPROC	Id de la linea en iProcurement	1	INTEGER	12
WORKORDER	WPLABOR	ACP_RATE	~null~	1	DECIMAL	10
WORKORDER	WPMATERIAL	ACP_DELETEORACLE	Borrado iProcurement	1	YORN	1
WORKORDER	WPMATERIAL	ACP_ORIGEN_ORACLE	GEN ORACLE?	1	YORN	1
WORKORDER	WPMATERIAL	ACP_PRDISTIDIPROC	Id de la distribucion de la linea en iProcurement	1	INTEGER	12
WORKORDER	WPMATERIAL	ACP_PRLINEIDIPROC	Id de la linea en iProcurement	1	INTEGER	12
WORKORDER	WPSERVICE	ACP_DELETEORACLE	Borrado iProcurement	1	YORN	1
WORKORDER	WPSERVICE	ACP_ORIGEN_ORACLE	GEN ORACLE?	1	YORN	1
WORKORDER	WPSERVICE	ACP_PRDISTIDIPROC	Id de la distribucion de la linea en iProcurement	1	INTEGER	12
WORKORDER	WPSERVICE	ACP_PRLINEIDIPROC	Id de la linea en iProcurement	1	INTEGER	12
WORKORDER	WPTOOL	ACP_DELETEORACLE	Borrado iProcurement	1	YORN	1
WORKORDER	WPTOOL	ACP_ORIGEN_ORACLE	GEN ORACLE?	1	YORN	1

WORKORDER	WPTOOL	ACP_PRDISTIDIPROC	Id de la distribucion de la linea en iProcurement	1	INTEGER	12
WORKORDER	WPTOOL	ACP_PRLINEIDIPROC	Id de la linea en iProcurement	1	INTEGER	12

23. Application ACP in Service Maintenance - copy of Quick reporting only for work type MS



The screenshot displays the IBM Maximo ACP in Service Maintenance interface. The main window shows details for a work order with the following information:

- Work Order:** 319279
- Asset:** REMCJ1000
- Asset Description:** FUEL OIL TRANSFER & STORAGE
- Location:** REMOLCADOR CERRO CANAJAGUA
- Work Type:** MS
- Status:** TERMINADO
- Site:** MFE
- Project:** 29708
- Task:** CERROCANAJAGUA - Gasto Mant. Prev.
- GL Account:** PT A14F00 A16
- Task Description:** PT + 29708 + CERROCANAJAGUA - PREV

Below the main details, there are several sections:

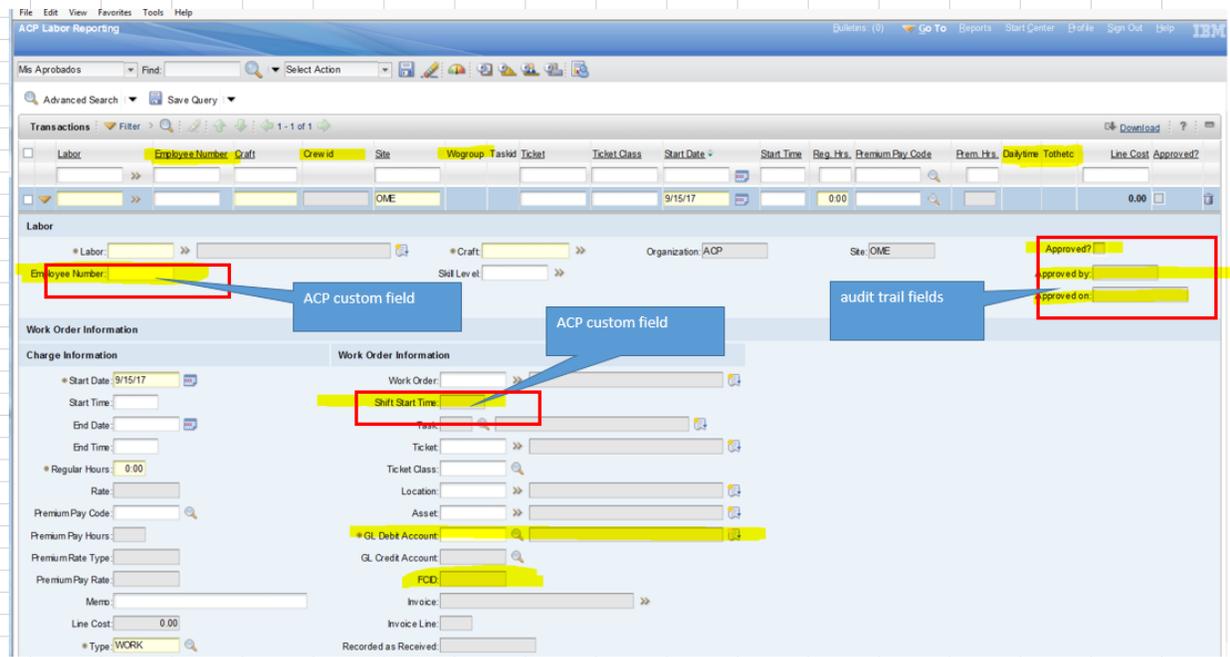
- Work Details:** Collapsed
- Asset Details:** Collapsed
- Primary Meter:** Collapsed
- Multiple Assets, Locations and CIs:** Filter > 0 - 0 of 0
- Tasks:** Filter > 0 - 0 of 0

The **Tasks** table is currently empty, showing the following columns:

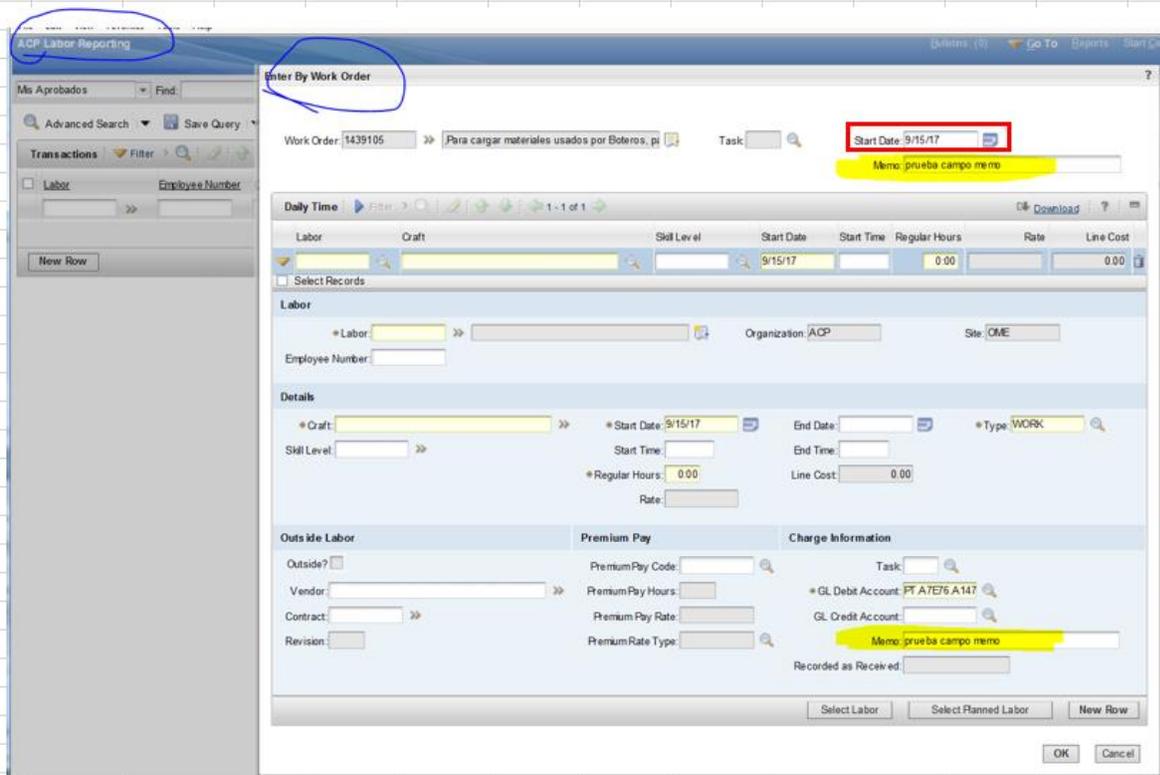
Sequence	Task	Summary	Component	Reason for Repair	Warranty?	Route	Route Stop	Qualifications	Status
...No rows to display...									

At the bottom of the interface, there are tabs for **Labor**, **Materials**, **Tools**, and **Failure Reporting**.

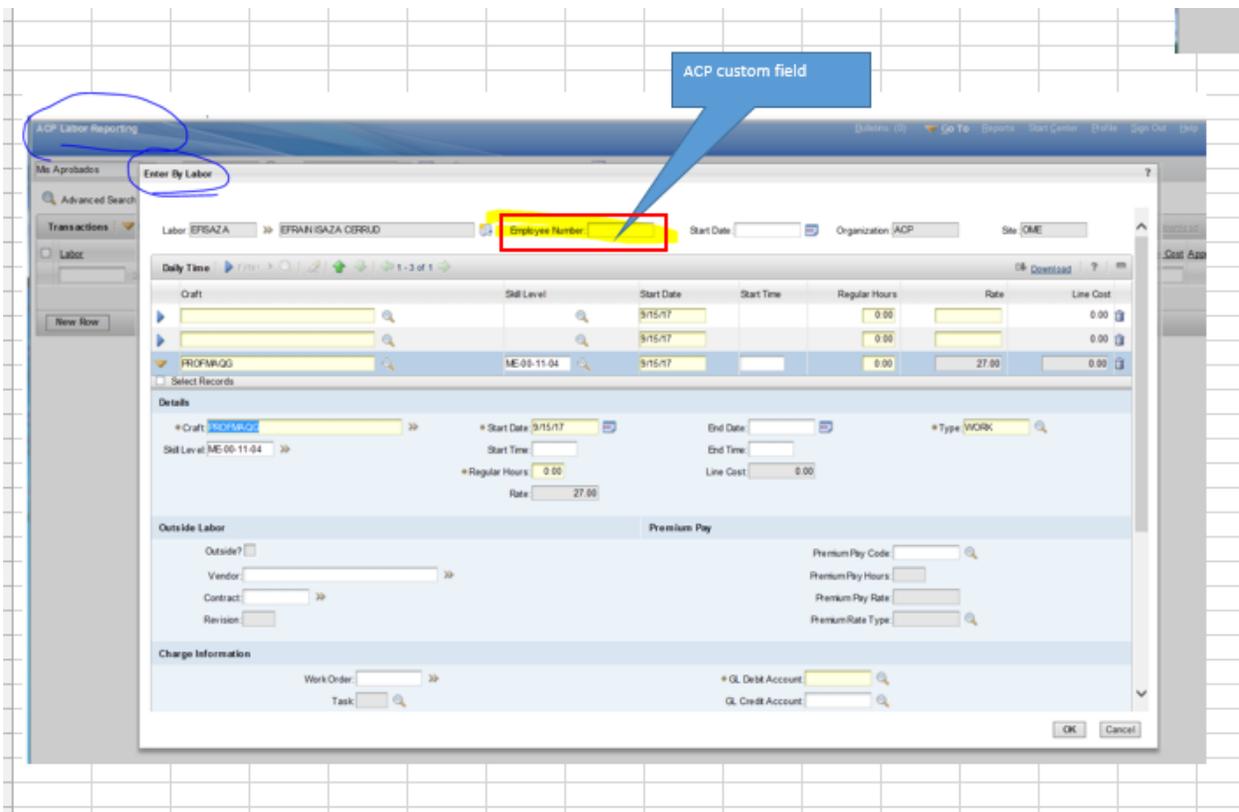
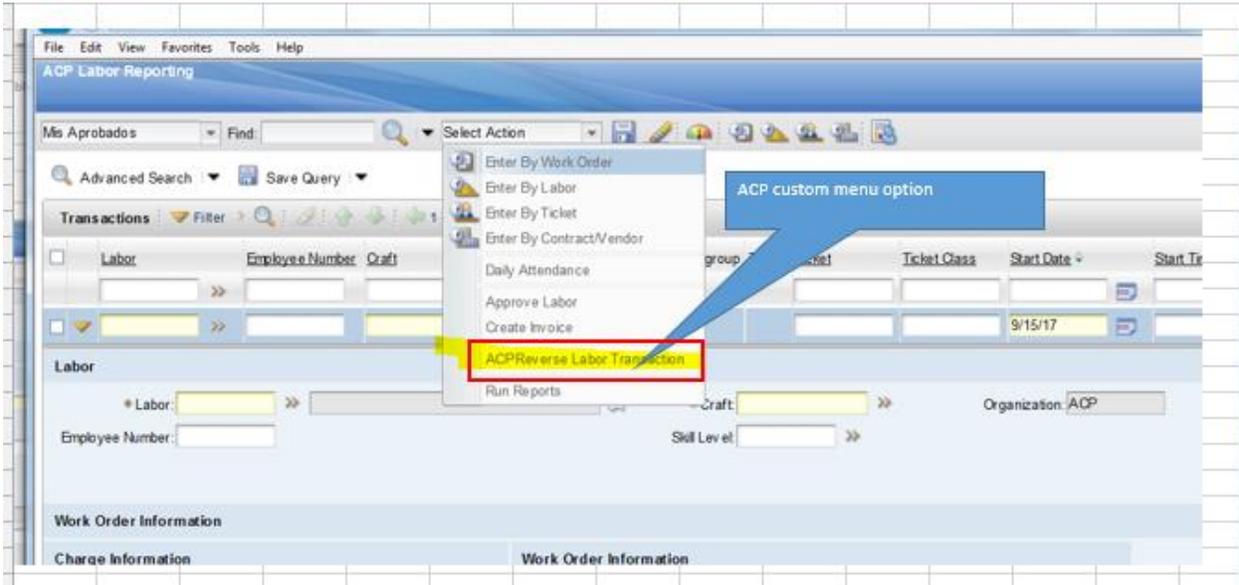
24. Application ACP labor reporting – ACP custom – copy of labor reporting



ACP Labor Reporting
 Transactions
 Labor
 Employee Number
 Craft
 Organization
 Site
 Approved?
 Approved by
 Approved on
 ACP custom field
 ACP custom field
 audit trail fields
 Work Order Information
 Charge Information
 Work Order Information
 Shift Start Time
 Task
 Ticket
 Ticket Class
 Location
 Asset
 GL Debit Account
 GL Credit Account
 FCD
 Invoice
 Invoice Line
 Recorded as Received



ACP Labor Reporting
 Enter By Work Order
 Work Order: 1439105
 Start Date: 9/15/17
 Memo: prueba campo memo
 Daily Time
 Labor
 Craft
 Skill Level
 Start Date
 Start Time
 Regular Hours
 Rate
 Line Cost
 Labor
 Employee Number
 Organization
 Site
 Details
 Craft
 Start Date
 End Date
 Type
 Skill Level
 Start Time
 End Time
 Regular Hours
 Line Cost
 Rate
 Outside Labor
 Premium Pay
 Charge Information
 Outside?
 Premium Pay Code
 Task
 Vendor
 Premium Pay Hours
 GL Debit Account
 Contract
 Premium Pay Rate
 GL Credit Account
 Revision
 Premium Rate Type
 Memo: prueba campo memo
 Recorded as Received
 Select Labor
 Select Planned Labor
 New Row
 OK
 Cancel



SERVICENAME	OBJECTNAME	ATTRIBUTENAME	TITLE	PERSISTENT	MAXTYPE	LENGTH
LABOR	LABTRANS	ACP_APA	APA	1	ALN	5
LABOR	LABTRANS	ACP_APAKEY	APA Code	1	INTEGER	12
LABOR	LABTRANS	ACP_CLASSIFICATION	Classification	1	UPPER	2
LABOR	LABTRANS	ACP_COMPTIME	Comp. Time	1	UPPER	2
LABOR	LABTRANS	ACP_EMPNUM	Employee Number	1	ALN	20
LABOR	LABTRANS	ACP_HAZARD	Hazard	1	UPPER	2
LABOR	LABTRANS	ACP_HAZKEY	Hazard Code	1	INTEGER	12
LABOR	LABTRANS	ACP_HOURS	Hours	1	DURATION	8
LABOR	LABTRANS	ACP_PAGORELEVO	Relief Pay	1	UPPER	2
LABOR	LABTRANS	ACP_PAYTYPE	Pay Type	1	UPPER	3
LABOR	LABTRANS	ACP_SHIFTCODE	Shift Code	1	UPPER	2
LABOR	LABTRANS	ACP_SHIFTSTARTTIME	Shift Start Time	1	TIME	3
LABOR	LABTRANS	ACP_STARTTIME	Shift Start Time	0	TIME	3
LABOR	LABTRANS	ACP_TIMINGDATE	Timing Date	1	DATE	4
LABOR	LABTRANS	ACP_TYPEDATE	Type Date	1	UPPER	4
LABTRANS	LABTRANSENTERBY	ACP_EMPNUM		Employee Number	0	ALN

Application Administrative Work – copy of work order tracking only for a group of work types 'administrative'

Administrative Works Bulletins: (0) Go To Reports Start Center Profile Sign Out Help

Find: Select Action:

List **Work Order** Plans Assignments Related Records Actuals Log Specifications

Work Order: 1106502 Apoyo de OPEI al proyecto de modernización Site: OME Attachments

Location: OPEP-PM Esclusas de Pedro Miguel Class: WORKORDER Status: ENEJEC

Parent WO: Work Type: TA Status Date: 10/21/14 08:11:36

ID Financial Control: 114645 Inherit Status Changes?

Project: 29858 Accepts Charges?

Task: OPE MAN TOR OPE MAN TORNA PM Is Task?

GL Account: PT.A1D222.A1 PT + 29858 + OPE MAN TORNA PM Responsible Area: Under Flow Control?

Classification: Workshop: Suspend Flow Control?

Class Description: Flow Action: Flow Action Assist?

Launch Entry Name: Job Details Priority

Scheduling Information **Follow-up Work**

Target Start: Actual Start: 10/21/14 08:11:36

Target Finish: Actual Finish:

Scheduled Start: Duration: 0:00

Scheduled Finish: Time Remaining:

Start No Earlier Than: Predecessors:

Finish No Later Than: Include Tasks in Schedule?

Originating Record:

Originating Record Class:

Has Follow-up Work?

Interruptible?

Responsibility

Created By: IADPRIES Superior: IATF IADA Owner: MASANCHEZ

ACP-SAA JAVA MAXIMO CUSTOMIZATIONS										
Custom. ID	MODULE	APPLICATION	TYPE	OBJECT	TITLE	JAVA CLASS	Comments	CUSTOMIZATION DESCRIPTION/PURPOSE	Number of Lines	Inherits from
1.	Inventory	Inventory	Java Application Class	INVENTOR	Inventory	com.acp.beans.AcpReorderpadBean		Java class to fix dialog "Reorder Item" in Inventory Application to copy standard cost from INV storeroom to unit cost for item. SR147266	61	ReorderpadBean
2.	Other	System	Java Application Class	LYBRARY	System Library	com.acp.beans.ACPTkSolutionBean, com.acp.beans.AcpSolutionSeachBean		Java class to fix dialog "Search Solution" to only search active solutions, omit the SR descriptions in solution search and delete redundant rows in the solution details. SR117877	31,	TkSolutionBean,
									472	SearchBean
3.	Work Orders	Labor Reporting	Java Application Class	ACPLABREP	ACP Labor Reporting	com.acp.beans.custLabTransAppBean, com.acp.beans.ACPLabTransReverseBean		Java class for a new dialog "ACP Reverse Labor Transaction" in ACP Labor Reporting to correct labor reporting, generating a new negative record for approval. SR108096	49,	LabTransAppBean ,
									177	AppBean
4.	Security	Security Groups	Java Application Class	ACP_SECROL	ACP Security Roles	com.acp.securityroles.SecurityRolesAppBean				
5.	Security	Security Groups	Java Application Class	USER	ACP Security Roles	com.acp.securityroles.UserRolesDataBean				

ACP-SAA JAVA MAXIMO CUSTOMIZATIONS										
Custom. ID	MODULE	APPLICATION	TYPE	OBJECT	TITLE	JAVA CLASS	Comments	CUSTOMIZATION DESCRIPTION/PURPOSE	Number of Lines	Inherits from
6.	Assets	Assets	Java Object Class	MODDOWNTIMEHIST	Modify Downtime History	acp.app.asset.virtual.ModDowntimeHistSetExtended		Java class on Asset and Work Order Tracking applications to get a unique control number when the operation needs to execute the function of Report down Time (out of service) of an Asset for both "Downtime Id" and "Uptime Id".	19	ModDowntimeHistSet
7.	Assets	Assets	Java Field Class	DOWNTIMEREPORT-ACP_DOWNTIMEID	Control Number	acp.app.asset.virtual.FldAssetDowntimeIdExtended		Java class on Asset and Work Order Tracking applications to get a unique control number when the operation needs to execute the function of Report down Time (out of service) of an Asset for both "Downtime Id" and "Uptime Id".	115	MboValueAdapter
8.	IT Infrastructure	Process Requests	Java Field Class	PMCOMSR-ACP_SLAREMT	Acp_slaremt	custAcp.ACP_FldSla		Java class to calculate the actual % of an Service Level Agreements Remaining Time	66	MboValueAdapter
9.	Service Desk	Incidents	Java Field Class	INCIDENT-ACP_SLAREMT	Acp_slaremt	custAcp.ACP_FldSla		Java class to calculate the actual % of an Service Level Agreements Remaining Time	66	MboValueAdapter
10.	Service Desk	Problems	Java Field Class	PROBLEM-ACP_SLAREMT	Acp_slaremt	custAcp.ACP_FldSla		Java class to calculate the actual % of an Service Level Agreements Remaining Time	66	MboValueAdapter

ACP-SAA JAVA MAXIMO CUSTOMIZATIONS										
Custom. ID	MODULE	APPLICATION	TYPE	OBJECT	TITLE	JAVA CLASS	Comments	CUSTOMIZATION DESCRIPTION/PURPOSE	Number of Lines	Inherits from
11.	Service Desk	Service Requests	Java Field Class	SR-ACP_SLAREMT	Acp_slaremt	custAcp.ACP_FldSla		Java class to calculate the actual % of an Service Level Agreements Remaining Time	66	MboValueAdapter
12.	Service Desk	Service Requests	Java Field Class	TICKET-ACP_SLAREMT	Acp_slaremt	custAcp.ACP_FldSla		Java class to calculate the actual % of an Service Level Agreements Remaining Time	66	MboValueAdapter
13.	Assets	Assets	Java Field Class	ASSET-GLACCOUNT	GL Account	custAcp.ACP_AssetGl		Java class to assign Project and Task from GL Account value	72	FldPartialGLAccount
14.	Inventory	Inventory	Java Field Class	INVENTORY-STDCOST	Standard Cost	com.acp.app.inventory.custFldInventoryStdCost		Automatically fill the standard cost of the part line purchase	48	FldInventoryStdCost
15.	Work Orders	Labor Reporting	Java Field Class	LABTRANS-LABORCODE	Labor	acp.app.labor.FldLabTransLaborcodeExtended		Java class to set Shift Start Time in Labor Reporting	73	FldLabTransLaborcode
16.	Work Orders	Work Order Tracking	Java Field Class	WORKORDER-GLACCOUNT	GL Account	custAcp.ACP_WoGl		Java class to assign Project and Task from GL Account value	73	FldPartialGLAccount
17.	Work Orders	Labor Reporting	Java Field Class	LABTRANS-DAILYTIME	Total Daily Time	com.acp.app.labor.CustFldLaborTotalDailyTime		Calculate the total labor daily time by Person	32	MboValueAdapter
18.	Work Orders	Labor Reporting	Java Field Class	LABTRANS-TOTHETC	Total Extra Hour / TC	com.acp.app.labor.CustFldLaborTotalHeTc		Calculate the total Compensatory and Extra dail time by Person	31	MboValueAdapter
19.	Financial	Chart of Accounts	Java Crontask Class	ProjTaskToGL	Project And Task To GL Account	com.acp.util.ACPCuentasCronTask		Java Class for the cron task ProjTaskToGL to make the conversion of projects and tasks accounts (GLAccount), and that the account is reflected in the system in a time span of 15 minutes. SR120173	317	SimpleCronTask

ACP-SAA JAVA MAXIMO CUSTOMIZATIONS										
Custom. ID	MODULE	APPLICATION	TYPE	OBJECT	TITLE	JAVA CLASS	Comments	CUSTOMIZATION DESCRIPTION/PURPOSE	Number of Lines	Inherits from
20.	Assets	Assets	Java Crontask Class	COSTROLLUP	Cost Rollup Crontask	com.acp.costrollup.CostRollupCron		Replaces Asset Cost Rollup report usage	200	SimpleCronTask implements GenericLogger
21.	Service Desk	Service Requests	Java Crontask Class	ACPPmAdhocSolutionCron	Carry over adhoc solutions from tickets to formal solution base	custAcp.AcpPmAdhocSolutionCron			202	SimpleCronTask
22.	Assets	Assets	Java Integration Class	ACPASSETBMC	ACP Ent. Serv. Down Time Report (BMC)	com.acp.iface.migexits.AcpDowntimeReportExit		Java Class of a Web Enterprise Service in MAXIMO to change ISRUNNIG flag (UP or DOWN) in an ASSET and record transactions in the system using ASSET and DOWTIMEREPOR objects. SR94973	267	UserExit
23.	Work Orders	Work Order Tracking	Java Integration Class	ACP_MX_WPITEM	Integración Planeación de Materiales iProcurement OT Máximo	com.acp.iface.migexits.AcpWPItemExit		Java class to delete the line item type 'direct purchase', to avoid duplication of the line. This user-exit will delete the line item generated by the job plan that is exactly the same as the line item copied from iProcurement. SR115634	194	UserExit
24.	Inventory	Inventory	Java Integration Class	MXINVISSUE_FROA12	OA Inventory Issue	com.acp.iface.migexits.AcpMxInvIssueExit		Java class to take into consideration if there is a unit conversion set-up for an item in MAXIMO and then make the conversion units. SR145968 - SR218720	218	UserExit
25.	Inventory	Inventory	Java Integration Class	MXITEM_FROA12	OA Items	com.acp.iface.app.item.CustItemIn		Java class to skip transaction if ITEM exists in External System	65	UserExit
26.	Financial	Chart of Accounts	Java Integration Class	MXPROJ_FROA12	OA Projects	com.acp.iface.app.financial.CustFinancialControlIn		Java class to skip transaction if FINCNTRL exists in External System	94	UserExit

Annex H. Security Requirements

1.1 Encryption

All ACP Information that is uploaded to the cloud service must be encrypted:

- The information in transit must be encrypted at all times using secure and accepted protocols in the transmission of data (TLS 1.2, SHA256 certificates, etc.).
- The information at rest must also be encrypted and the encryption keys must be under the control of the ACP, which will have key management policies.
- The provider must provide documentation about its information encryption capabilities and provide support in the application of its cryptographic protections to the information of the ACP.

1.2 Audits to the cloud provider

Audit reports or letters from external auditors must be available to the ACP upon request.

The provider must be able to demonstrate that it is audited annually on issues of risk, at least two (2) of the following international regulations or framework:

- ISO 27002
- ISO 27017
- ISO 27018
- Cloud Security Alliance (CSA) GRC Stack. Includes: Cloud Controls Matrix (CCM); Consensus Assessments Initiative Questionnaire. Responses should be documented on the site of CSA Security, Trust & Assurance (STAR), free access public record on security controls that provide various offers cloud computing.

1.3 Outsourcing

Do not allow outsourcing since all processes and systems must be owned by the offeror.

1.4 Portability

The vendor must guarantee that the ACP data can be exported / downloaded in case of termination of contract / migration to another vendor / supplier or product end of life.

1.5 Identity Management

The cloud provider must be able to use through federation, the identities of the ACP users who reside in Active Directory (AD) of the organization. The service provider must offer the ability to use multiple factor authentication (MFA), for the users of the platform.

1.6 Access control

The cloud service must be able to provide granular access levels with documented roles / responsibilities and should allow creating custom roles (RBAC).

1.7 Logbooks

The cloud service provider should be able to generate detailed activity logs access control applications (SaaS) or infrastructure (IaaS or PaaS). These logs should be able to integrate with the incident management system (SIEM) of the ACP.

1.8 Legal hold functionality on documents

Having *legal hold* functionality on documents. Clear SLAs with audit clauses are mandatory, for example, to enable audit trails hosted on customer premises to provide protection against loss of access to cloud services.

1.9 Systems patching

The supplier must perform patching of all related services provided in SaaS (Software as a Service) or PaaS (Platform as a Service) systems. Must also provide mechanisms for the ACP performs updates of systems used in IaaS mode. The provider should provide information about the management of vulnerabilities, especially if they affect the service.

1.10 Protection against malicious code (malware)

The platform must have an recognized antimalware solution to run scans in real time, tracking incoming and outgoing files (such as Office files, PDFs, images, executables, etc.), automatic signature updates, ability to

detect malicious code not based on signatures (heuristic, machine learning or other) and should be able to warn of malware detections.

1.11 Security Operations

The provider must be capable of responses to security incidents and notify the ACP about any security incidents impacting the system used by ACP. Additional, it must have a team of security incident response with whom the ACP can coordinate the management of incidents.

1.12 Backups

The supplier shall provide data backup service, for SaaS services, and should describe the used backup methodology. For cases of IaaS and SaaS, the cloud service provider shall provide the ability to configure those services, by the ACP.

1.13 Disaster recovery

The service provider must have disaster recovery plans; It is also required that you can demonstrate compliance with such disaster recovery plans through third-party certifications (audits).

1.14 Privacy Policy

The service provider must have a customer data privacy policy, where being describes the following:

- Use of personal data
- Use of sub-processors (third parties)
- Description of regulatory authorities and information disclosure methodology when required by regulatory bodies
- Description of the dispute resolution method

1.15 Intrusion Tests

The service provider must perform intrusion tests on its own infrastructure on a recurring basis; and must demonstrate the execution of the same through technical reports and / or independent certifications.