



Integrating Oracle EBS R12 and Maximo EAM Using the Maximo Enterprise Adapter

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Presenter

Rohit Dean

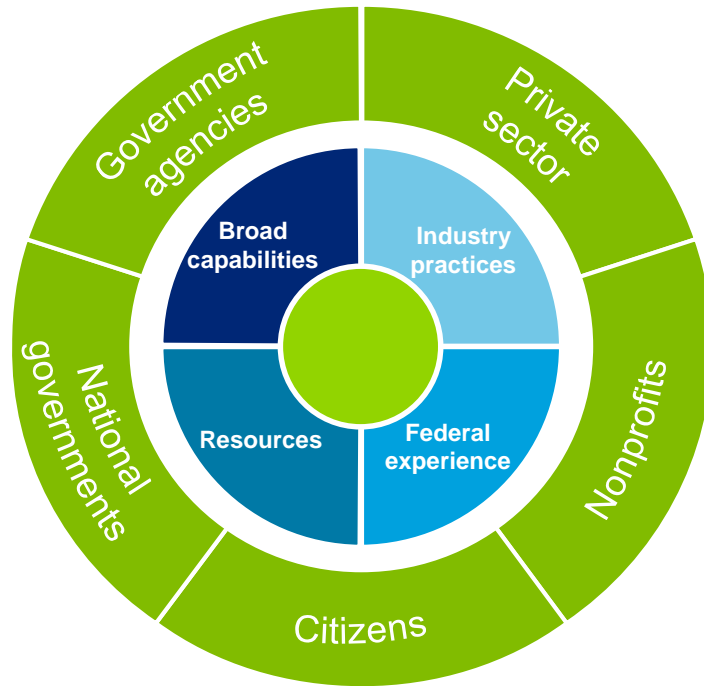


Deloitte Consulting LLP

Mr. Dean is a Senior Manager at Deloitte Consulting LLP. He joined Deloitte in March 2008, and has over 22 years of experience managing Oracle EBS business transformation projects in the Commercial, Higher Education, and Federal sectors. He has Project Management Professional (PMP) and Information Technology Infrastructure Library (ITIL) certifications. He brings a pragmatic approach to Techno-Functional problem solving and delivering enterprise solutions.

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- Service Oriented Architecture (SOA)
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“Buyers rate Deloitte highly for integrating its project team with the customer's team, meeting the project timeline, and resolving problems/issues related to customer service.”
 - *IDC MarketScape: Worldwide Oracle Implementation Services 2016 Vendor Assessment*

Solution Overview

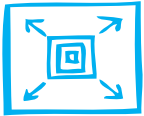
Situational Background

Spare parts are used in manufacturing environments to repair machinery and enable optimum sustainable capacity while producing at the desired level of quality. The client uses Maximo Enterprise Asset Manager (EAM) to document work orders for planned and unplanned maintenance. Oracle E-Business Suite (EBS) is the system of record for inventory and financial transactions.



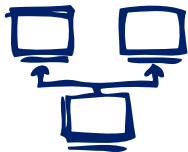
Challenge

The two applications were not integrated, which caused duplicative parts maintenance and transactional data entry, thereby causing data integrity issues across the two disconnected applications.



Solution

- Implemented the Maximo Enterprise Adapter (MEA) for Oracle Applications to integrate the two applications.
- Developed and deployed additional custom extensions based on client requirements using the MEA for Oracle architecture.



Impact

Eliminated duplicative data entry and parts maintenance, improved data quality, reduced manual processes, and brought back focus of the Electro-mechanical engineers (EM) on machine maintenance rather than data maintenance.

Business and Technology Landscape

The below components describe the Spare Parts Inventory and Work Order management process before the implementation of MEA for Oracle.

Spare Parts

- Spare Parts used to fix machines (break-fix) and ensure they are running properly (preventive maintenance)
- Spare Parts were tracked in both Maximo and EBS

Oracle EBS

- EBS tracks inventory replenishment, including spare parts consumed through work orders

Work Orders

- Work Orders are requested for fixing machinery
- Most work orders do not account for Spare Parts

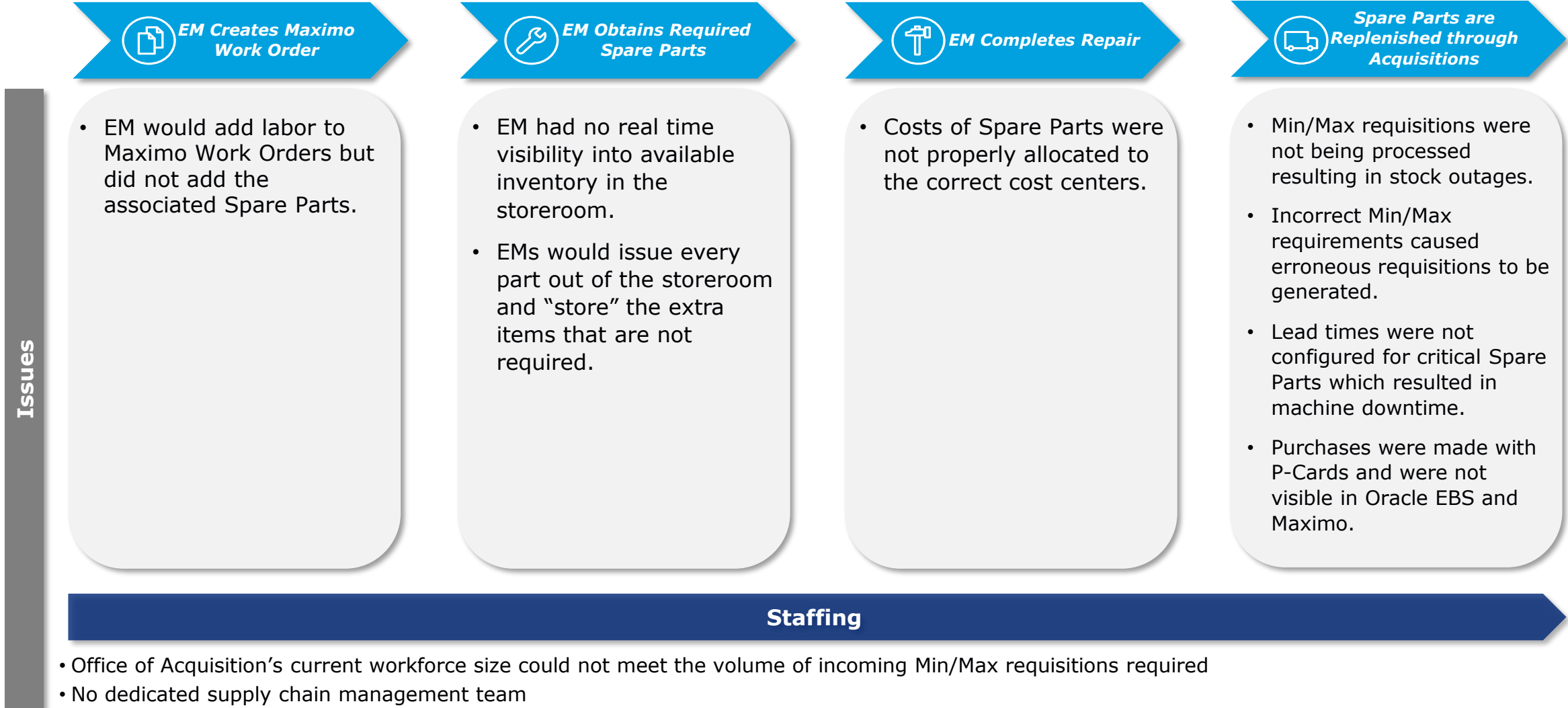
Maximo

- Maximo tracks work order requests and progress, including tasks that require Spare Parts from Inventory

Lack of integration between Oracle EBS and Maximo caused inaccurate reporting of on-hand quantities, and affected inventory replenishment causing frequent stock-outs

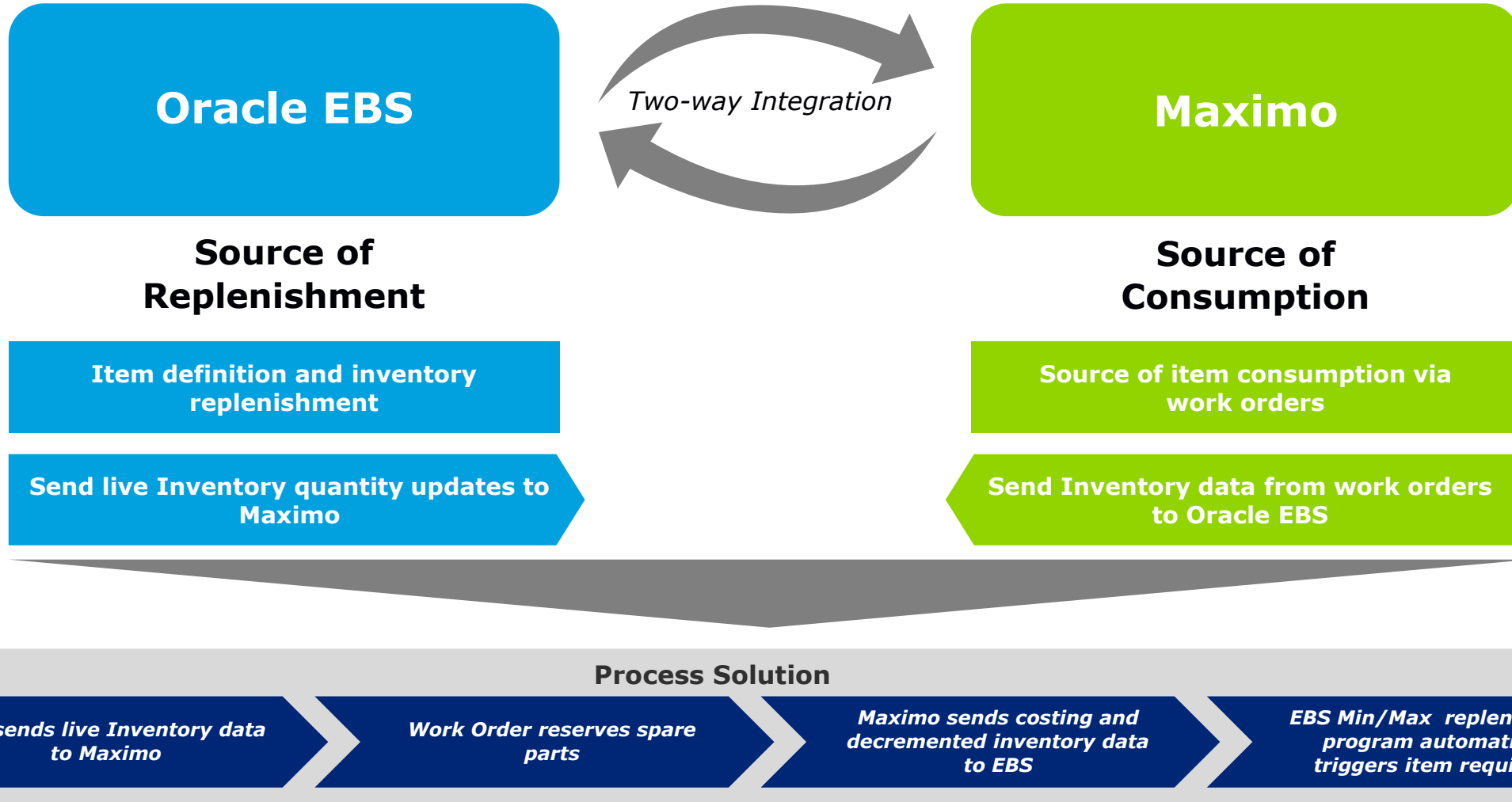
People and Process Challenge

Prior to the MEA implementation, there were several breakdowns in the business process for Spare Parts lifecycle management and Work Order management.



Solution Data and Process Configuration

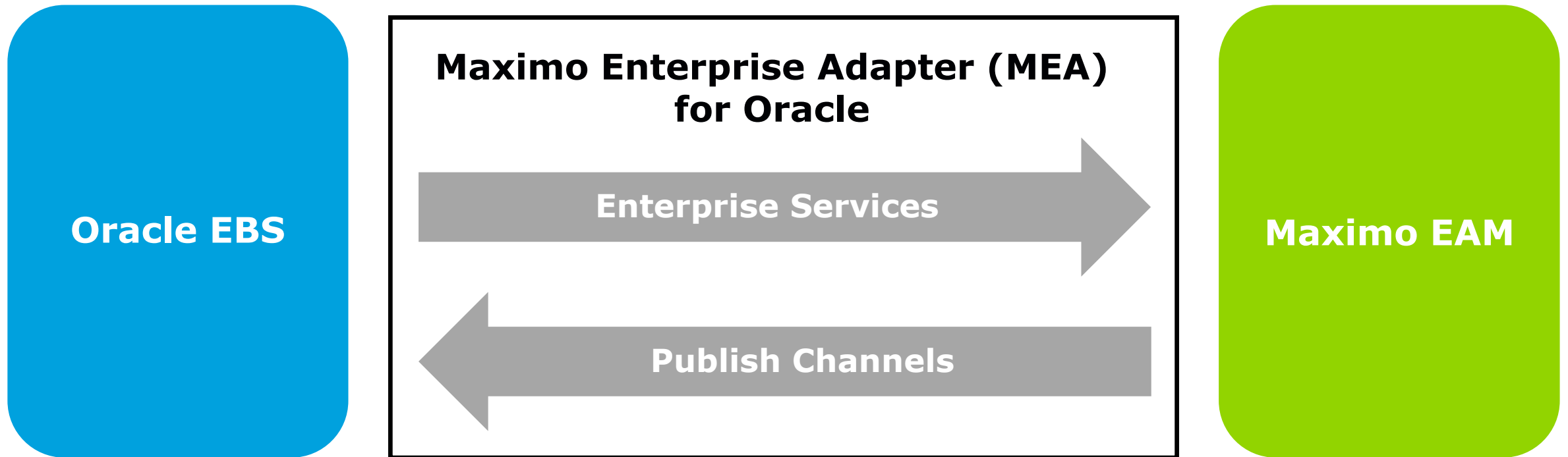
The below data configuration and process flow was implemented as part of the MEA solution. This enabled seamless integration, consistent and accurate data across both applications, and automated requisitions.



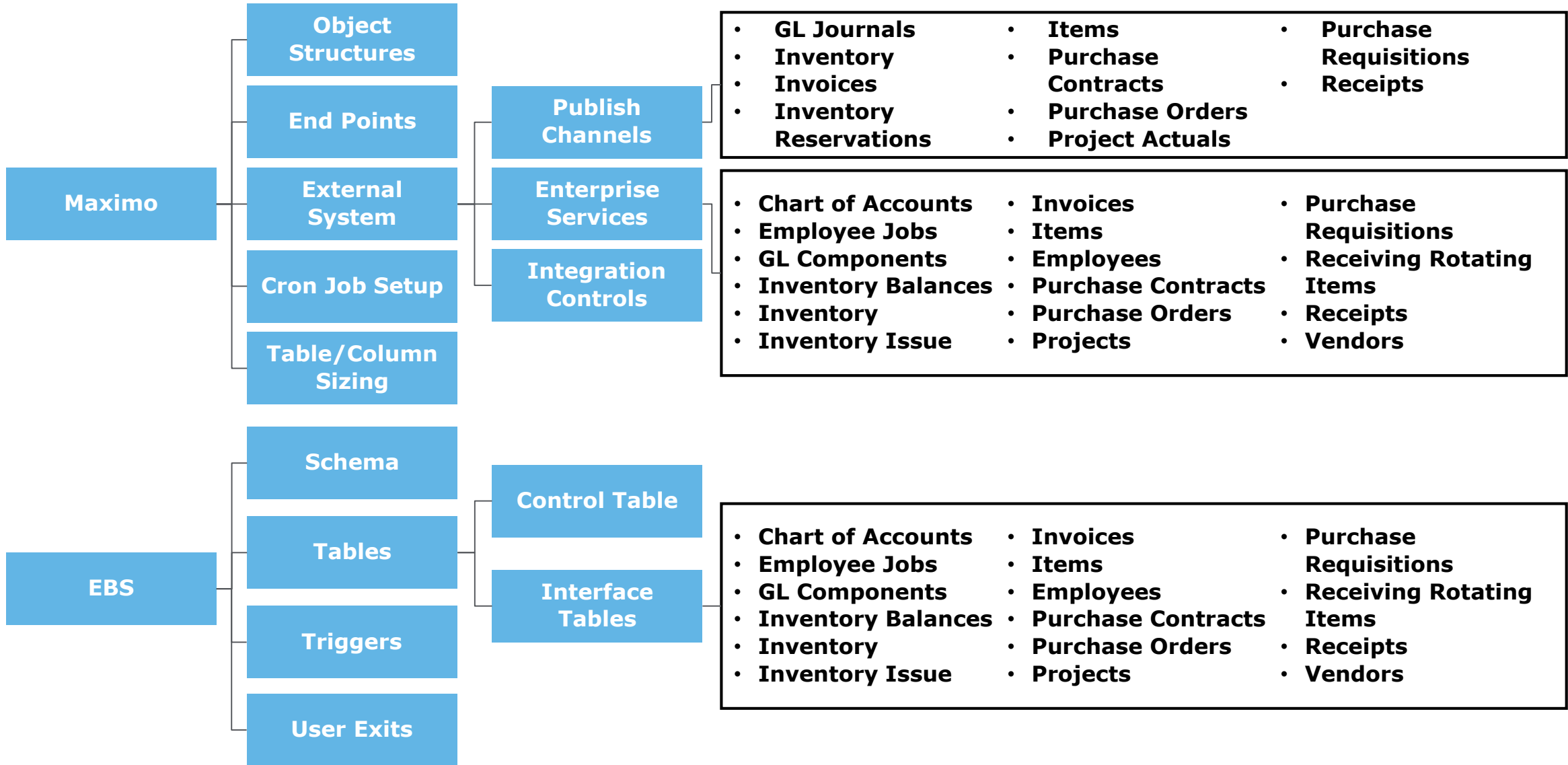
Detailed Technical Solution

Technical Solution

- MEA consists of a 2-way interface between Maximo EAM and Oracle EBS
- It exchanges data by using enterprise services and publish channels
- The adapter updates the systems when you change data on either side of the integration, depending on how you configure and customize the integration points
- The adapter uses an extensible framework of interface tables, Cron jobs, triggers, and user exits for implementing the integration



Integration Setups



Impact of Solution

Impact of Solution

After implementing MEA and using the framework to deploy extensions to it, the client eliminated duplicative data entry and parts maintenance, improved data quality, reduced manual processes, and brought back focus of the Electro-mechanical engineers on machine maintenance rather than data maintenance.

Provided an extensible framework for integration between EBS and EAM

Eliminated duplicate data entry which would often result in inventory variance reported between the two applications

Provided a window from EAM into EBS whereby EAM can directly check for availability of parts before scheduling maintenance

Reduced manual processes to keep the information in the two applications in synch e.g., work order (actuals) were converted to move order issue transactions

Q&A





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