ORACLE Cloud

Oracle ERP Cloud Service Integrations

An Overview

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Executive Summary

With Oracle ERP Cloud Service you can maximize your IT investments in third party or legacy applications with ease to form a complete solution for your essential business processes. Integration with Oracle ERP Cloud Service is made up of two categories, inbound and outbound. Pre-packaged solutions integrate Oracle ERP Cloud Service with other Oracle applications and services and are built and supported by Oracle with both inbound and outbound integrations. These pre-packaged solutions allow you to move forward with leading-edge applications that provide superior capabilities, add business value, and seamlessly integrate with your other Oracle solutions with minimal implementation cost.

Inbound integrations can be achieved with cloud connectors. Cloud connectors provide the capability to receive and process information from legacy applications, third party applications, Oracle partner solutions, banks and financial institutions, or other external applications. Cloud connectors may be used in combination with one another and are classified as follows:

- Web Services that can be extended for real-time exchange
- File Based Data Load infrastructure that can be used for high volume transaction interchange
- Point connectors with Oracle partner solutions

Outbound integrations are built using the Business Intelligence capabilities embedded in Oracle ERP Cloud Service. These capabilities include BI Publisher for high volume transactional data, and Oracle Transactional Business Intelligence for ad hoc queries.

You can use the dedicated ERP Integration Web Service to completely automate your desired integrations and extend the value of your existing IT investments.

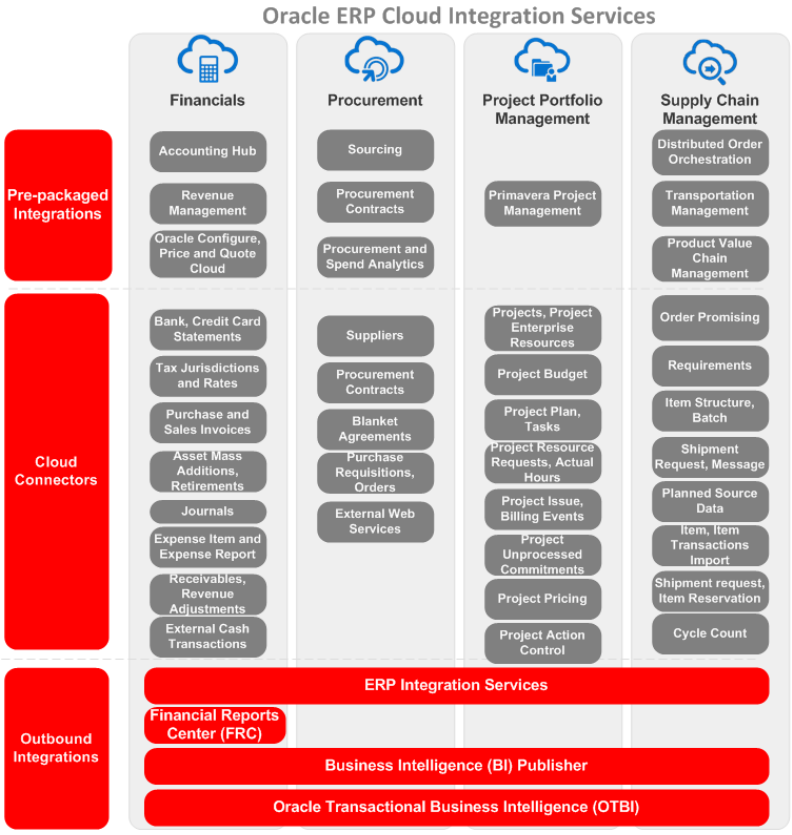

Figure 1: Overview of Oracle ERP Cloud Service Integrations

Pre-packaged Integrations

Coexistence provides an opportunity for organizations to choose the best from existing and available systems and incrementally adopt new solutions without the expense of a complete overhaul. These integration flows have transformation, routing, API calls, and logging information built into the software to provide complete business process integration. These solutions enable integrations between Oracle ERP Cloud Service and other Oracle Cloud Services (Cloud to Cloud) or with Oracle on-premise applications (Cloud to On-premise). The following figure shows the solutions for both Cloud to Cloud and Cloud to On-premise integrations.

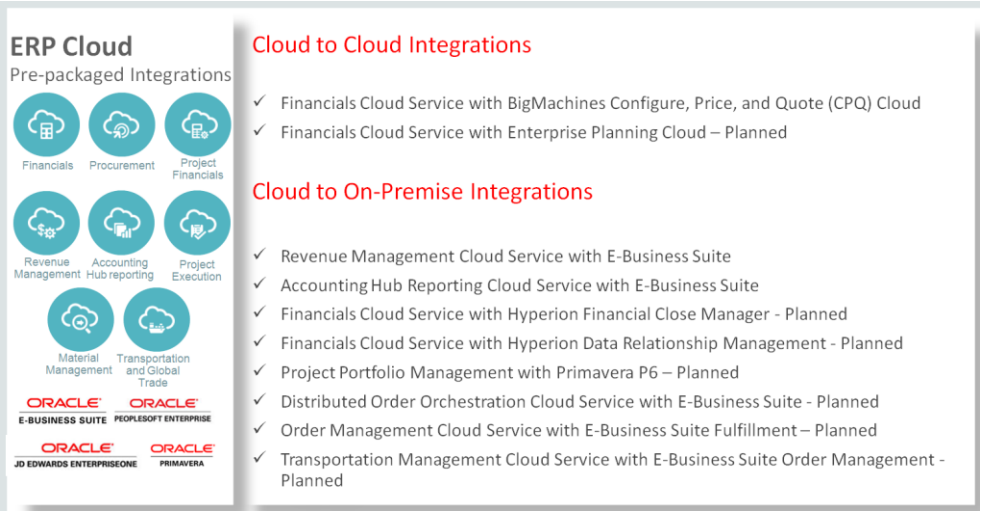

Figure 2: Oracle ERP Cloud Pre-packaged Integrations

Cloud to Cloud Integrations

Oracle Financials Cloud Service with Oracle Configure, Price, and Quote (CPQ) Cloud Service

With Oracle Configure, Price, and Quote (CPQ) Cloud Service (CPQ), your sales representatives can instantly generate quotes online with 100% accuracy. Before these quotes are converted into orders an online credit check is performed through Oracle Financials Cloud Service. When the orders are ready for billing they flow to accounts receivable in Oracle Financials Cloud Service.

This seamless and synchronous integration between Oracle CPQ Cloud Service and Oracle Financials Cloud Service enables you to effectively manage your entire business process from pricing, quoting, and order management to customer invoicing and subsequent receipts, collections and return processing.

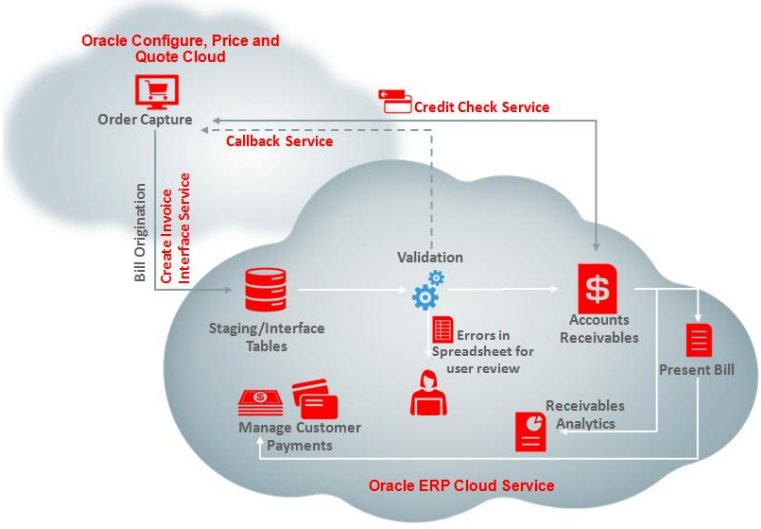

Figure 3: Financials Cloud Service with Oracle Configure,Price, and Quote Cloud Service

Oracle Financials Cloud Service with Planning and Budgeting Cloud Service

Oracle Planning and Budgeting Cloud Service is a flexible planning application based on Oracle Hyperion Planning that supports enterprise-wide planning, budgeting, and forecasting in a cloud-based deployment model. Oracle Planning and Budgeting Cloud Service provides a rich Web and Microsoft Office enabled planning and modeling framework that supports driver based planning to help connect operational assumptions to financial outcomes. It supports a hierarchical planning process that encompasses both corporate finance and the lines of business within an enterprise.

Oracle Planning and Budgeting Cloud Service connects seamlessly with Oracle Financials Cloud Service. Budgets are automatically loaded from Oracle Planning and Budgeting Cloud to Oracle Financials Cloud, and actual balances from Oracle Financials Cloud are transferred to Oracle Planning and Budgeting Cloud.

Cloud to On-premise Integrations

Oracle Revenue Management Cloud Service with E-Business Suite

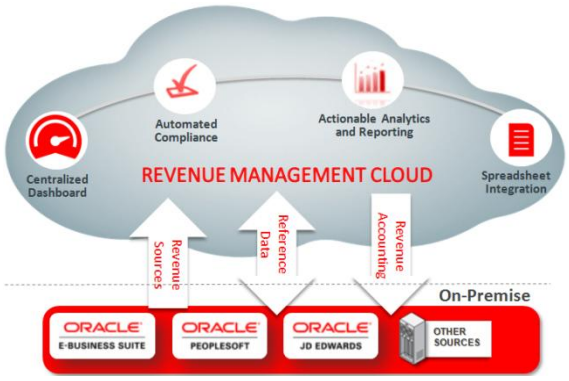

Figure 4:Oracle Revenue Management Cloud Service with E-Business Suite

Oracle Revenue Management Cloud Service is a centralized, automated revenue management solution that allows you to accurately recognize revenue from contracts with customers as soon as it is appropriate at a point in time, or over time, and separately from the billing process. Oracle Revenue Management Cloud Service is a seamless and comprehensive business solution that enhances consistency and compliance.

Oracle Revenue Management Cloud Service extracts sales transactions, contracts and other revenue transactions from Oracle E-Business Suite, Peoplesoft, JD Edwards and other sources for secure load to Oracle Revenue Management Cloud Service. These transactions are processed for revenue pricing. Compliant revenue subledger data is extracted and uploaded to a secure location for access by automated services to load these into Oracle E-Business Suite for further accounting.

Refer to the Oracle Revenue Management Data Sheet for details.

Oracle Accounting Hub Reporting Cloud Service with E-Business Suite

Oracle Accounting Hub Reporting Cloud Service acts as a central financial reporting platform for customers using Oracle E-Business Suite Financials. This service has an embedded multi-dimensional data model and the market leading online analytical processing server that allows you rapid access to large volumes of data.

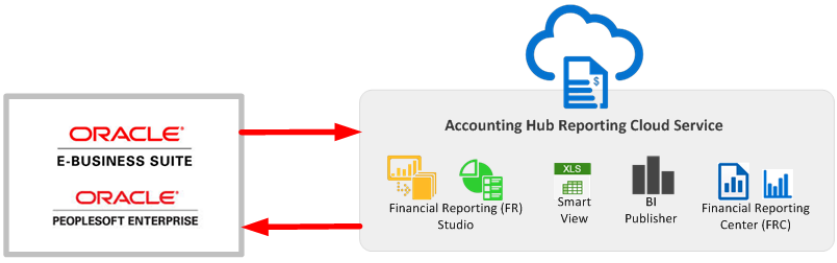

Figure 5: Oracle Accounting Hub Reporting Cloud Service with E-Business Suite

This service enables you to automate generation of boardroom-ready financial statements without the need for IT involvement. You can automate secure distribution of these live and pre-published statements. The recipient will have the ability to perform multi-dimensional analysis

and drill down from any of these live reports. The service also enables analysts to perform ad hoc balance queries in Excel using the Smart View plug-in.

Refer to the Oracle Accounting Hub Reporting Cloud Service Datasheet for more information.

Oracle Project Portfolio Management Cloud Service with Primavera P6

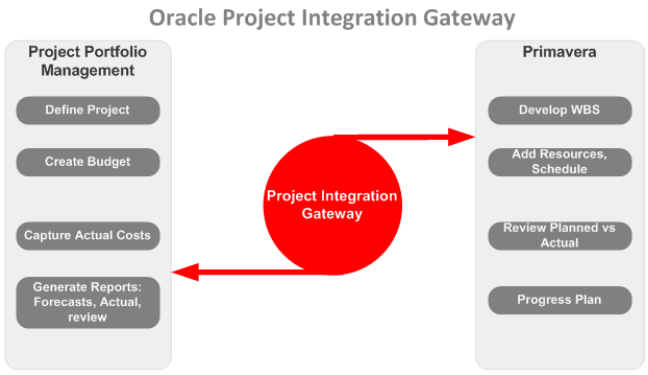

Figure 6: Oracle Project Portfolio Management Cloud Service with Primavera P6

Oracle Project Integration Gateway brings together world-class financial project management from Oracle Project Portfolio Management and best in-class project execution in an optimized end-to-end enterprise project and portfolio management process. Project Integration Gateway supports out-of-the-box integration with Primavera for an end-to-end enterprise project portfolio management process.

Each business process flow has been fully optimized. For example, when importing progress information from Primavera, it is also available for other uses such as reporting, forecasting, revenue or invoice generation, and can automatically be used to generate updated budgets on the financial side of the project.

Refer to the Oracle Project Integration Data Sheet for details.

Inbound Integrations

Cloud Connectors

Oracle ERP Cloud Service provides a robust framework for inbound integrations, which includes infrastructure that enables spreadsheet based data load and an extensive list of web services that can be leveraged for integrating with legacy, third party or point solutions.

File Based Data Load

Oracle ERP Cloud Service provides the capability to load bulk transactions via a spreadsheet based import process. This process can be used to transition from your legacy applications to Oracle ERP Cloud Service or to load transactions from external applications. Oracle provides spreadsheet templates for you to leverage for recording transaction details. These templates are structured for ease of entry and include detailed instructions for creating the data files. Once the data files are created, they are placed in Oracle Universal Content Management Server (UCM) prior to initiating the Load Interface File process to load data and process transactions.

The Oracle Enterprise Repository (OER) for Oracle Cloud provides visibility into service-oriented architecture assets to help you manage the lifecycle of your software from planning through implementation, testing, production, and change control. OER includes the spreadsheet templates and information to help you prepare external data for upload and import. Each template includes specific instructions, guidelines, formatted spreadsheets, and best

practices for preparing the data file for upload. Use the templates to ensure that your data conforms to the structure and format of Oracle ERP Cloud Service interfaces.

You can access OER by clicking the 'Login as Guest' button. Search for the available templates by entering any search string and selecting a type of "File Based Data Import". From the supported templates listed as results, select the one that is relevant to you. Download the spreadsheet template from the 'Details' tab of OER. The instructions tab of each downloaded spreadsheet template includes information for preparing data, generating the files for upload, and the upload process.

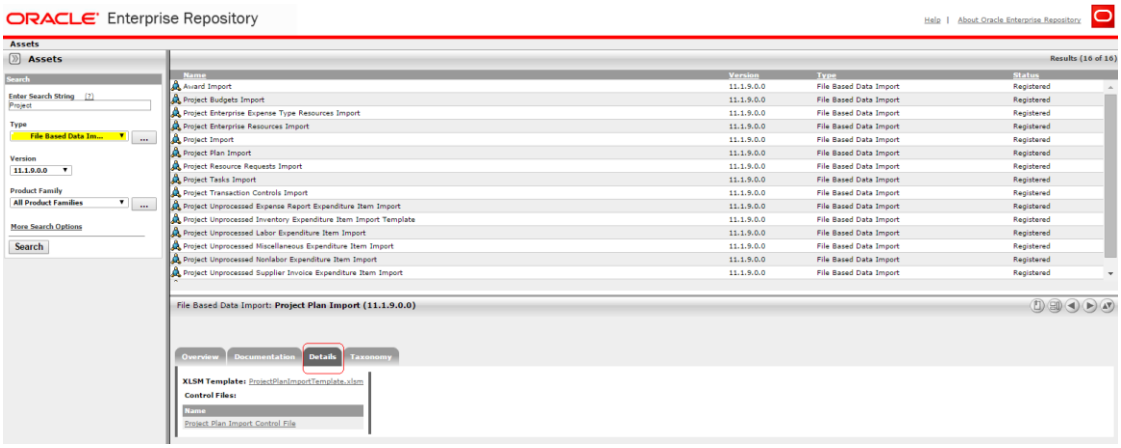

Figure 7: Oracle Enterprise Repository List of File Based Data Loads

The diagram and instructions below illustrate the OER process to discover and upload files with the data you wish to import into Oracle ERP Cloud Service.

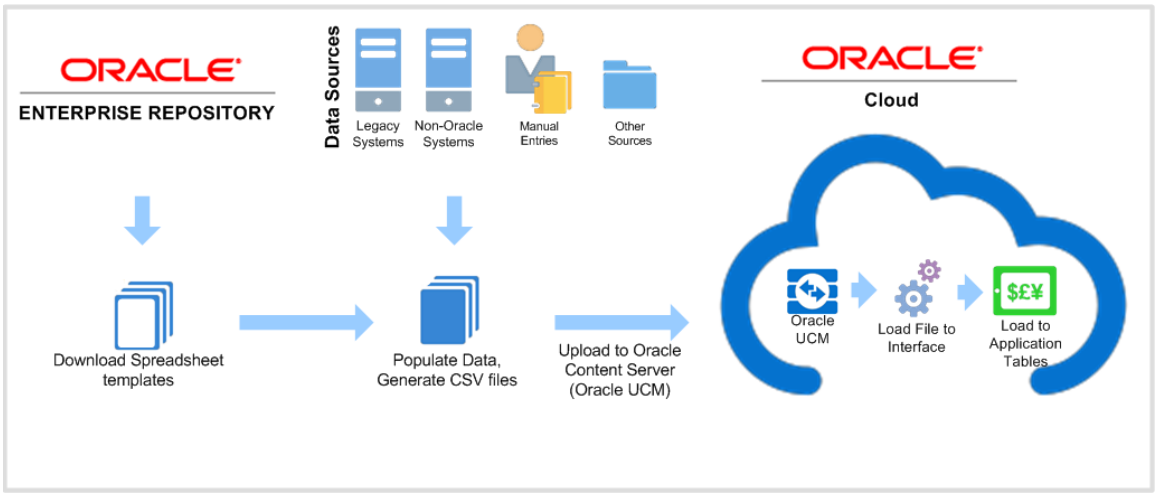

Figure 8: Overview of OER process for uploading files

Oracle ERP Cloud Service provides File Based Data Interface templates to cover common customer use cases, such as: general ledger journals, receivables and payables transactions, bank statements, fixed asset transactions, purchase agreements, requisitions, and orders. Refer to 'Using External Data Integration Services' document for complete details.

Web Services

In addition to the File Based Data Load, Oracle ERP Cloud Service provides several web services (ADF services) that can be invoked by third party applications from different platforms and, using other integration technologies like Oracle Data Integrator (ODI), a ADF Mobile application etc.

Oracle ERP Cloud Service provides web services to address all common integration use cases, such as: Purchase orders and agreements, Payables and Receivables transactions, general ledger journals, expense items, expense reports, fixed assets, revenue adjustments, Project, project and work plan, and billing transactions.

The Oracle Enterprise Repository (OER) provides the details of the available web services. You can access OER with 'Login as Guest'. Search for the available web services by entering the search string of 'External' and set the Type as 'ADF Service' in the 'Assets' search panel on the left. From the supported services listed on the right panel, select the one that is relevant to you. The documentation tab provides details of the relevant service.

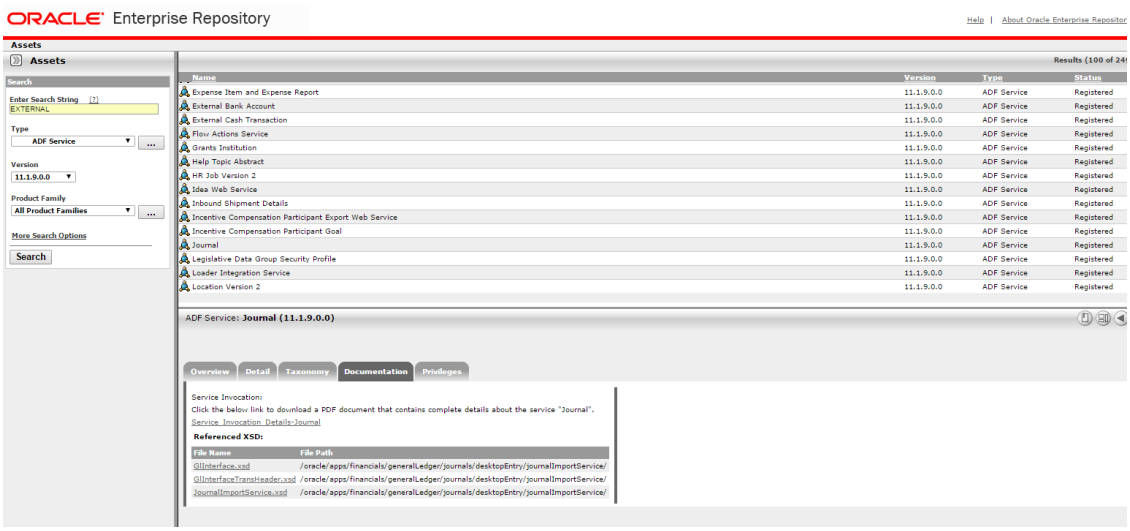

Figure 9: Oracle Enterprise Repository of Web Services

A web service can be invoked as a synchronous service using a service-based entity object and a view object, Java API for XML Web Services (JAX-WS) client, or from SOA.

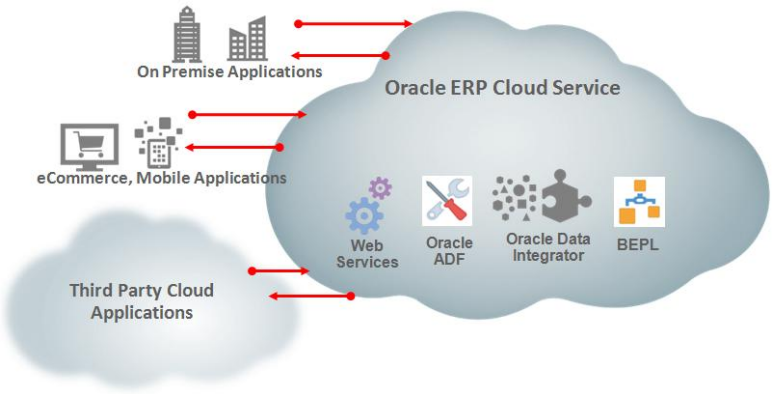

Figure 10: Web Service Illustration

Outbound Integrations

Oracle Business Intelligence Publisher

Oracle Business Intelligence Publisher is a web based reporting solution in Oracle ERP Cloud Service that enables users to author, manage, customize, and deliver reports and documents faster than traditional reporting tools. End users can simply use their web browser and other familiar desktop tools to create everything from pixel-perfect customer-facing documents to interactive management reports. The following table lists the key BIP reports delivered with Oracle ERP Cloud Service:

Area	Reports
Procurement	Purchase Document: PDF report, Terms and Conditions, Purchasing Process Output and Exception Listing
Payables	Payables Invoice Register, Payment Register, Invoice Aging, Trial Balance, Cash Requirement, Discounts Taken and Lost, Payables Period Close Exceptions, Payment Audit, Payment File Formats
Receivables	Print Invoices, Customer Statements, Receivables Aging Reports, Transaction Detail, Receipts Awaiting Bank Clearance or Remittance, Receipt Days Late Analysis, Open Balances Revaluation Reports
General Ledger	Account Analysis Reports, Journals Summary and Details Reports, Trial Balance Reports, Intercompany & Subledger Reconciliation reports
Tax, Compliance	Transaction Tax Business, Legal and Reconciliation Reports; Spanish Input & Output VAT Journal Reports, Spanish VAT Inter-EU Invoice, UK Reverse Charge Sales List, Italian Purchase & Sales VAT Registers
Project Financials	Project Assets: Generate Asset Lines, Transfer Assets, Update Asset Details; Project Billing: Generate, Preview, Update and Transfer Invoices, Preview invoices; Project Costing: Burdening, Allocating, Capitalizing and Accounting Project Budget Reports, Project Revenue Reports
Project Management	Project Planning, Project Performance and Project Maintenance

Oracle Transactional Business Intelligence (OTBI)

Oracle Transactional Business Intelligence (OTBI) delivers a flexible and easy-to-use analysis tool that helps you to gain real-time insight into transactional data, understand data pattern and to be alerted of key events and data anomalies. With robust ad-hoc reporting, role-based dashboards, data visualization and self-service information delivery, Oracle Transactional Business Intelligence (OTBI) puts reporting in the hands of business users. OTBI comes with a large number of transactional attributes available for analysis, including predefined subject areas and prebuilt metrics available for reporting. Some of the key subject areas for Oracle ERP Cloud Service are listed in the following table:

Product Area	Key Subject Areas
Financials	Journals, Receivables Transactions, Payables Invoice Transactions, Payment Disbursements, Asset Transactions
Procurement	Purchasing, Purchase Agreements, Requisitions, Suppliers, Supplier Negotiations
Project Portfolio Management	Project Costs – Actual, Project Budgets, Project Revenue, Project Invoicing, Project Planning

ERP Integration Web Service

The ERP Integration Web Service automates integrations with Oracle ERP Cloud Service. This service has utilities to transfer files, submit jobs, and monitor status. In addition, these processes carry the intelligence to record receiver confirmation and to identify the last transaction successfully processed by target application and only enable incremental export of unprocessed transactions.

The following flows illustrate the common uses of this service. The first Push Approach illustrates the approach where the data is pushed to the consumer application, and the Pull Approach illustrates the approach where the consumer application checks the source Oracle ERP Cloud Service for the existence of the transactions to be processed by pulling the data.

Push Approach

This example illustrates the touchless integration achieved between Oracle E-Business Suite that consumes the processed revenue distributions generated by Oracle Revenue Management Cloud Service.

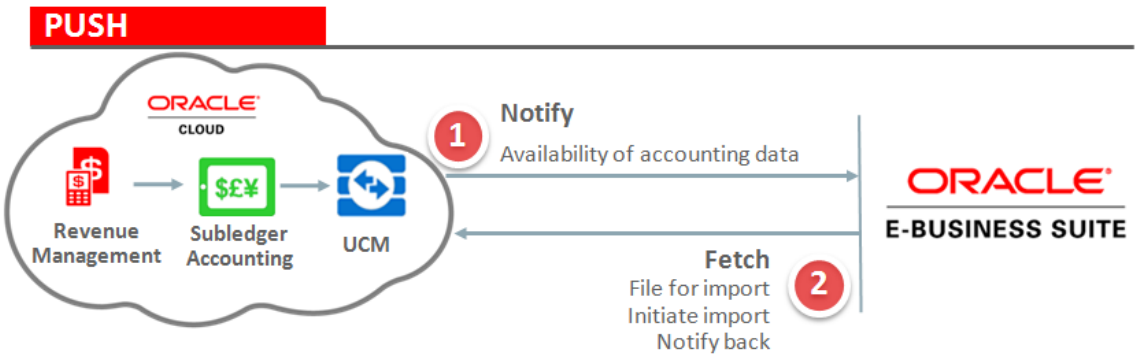

Figure 11: Illustration of the Push Approach

Pull Approach

This example illustrates the approach of a company's headquarters using Oracle E-Business Suite to check for the existence of unprocessed intercompany sales transactions generated by a subsidiary using the Oracle ERP Cloud Service. The headquarters system pulls the transactions in order to process the corresponding intercompany purchase transactions.

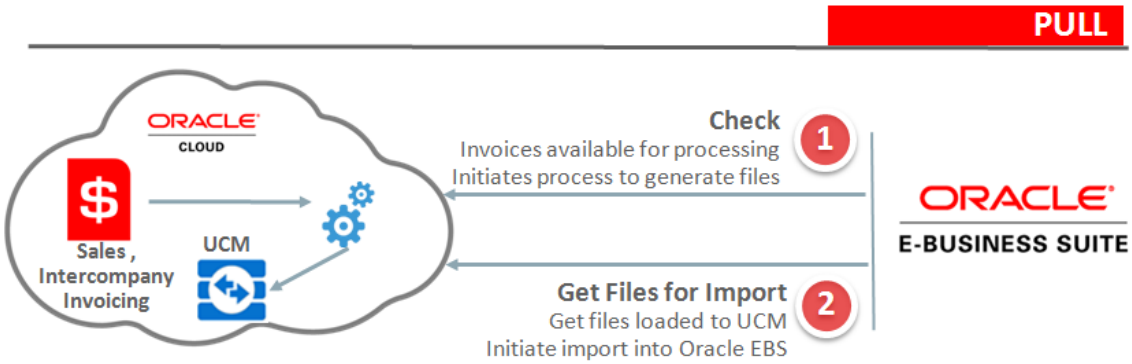

Figure 12: Illustration of the Pull Approach

Conclusion

Oracle ERP Cloud Service provides you with the ability to revolutionize the productivity of your organization with a broad suite of capabilities and minimize integration costs with its standards-based technology. With Oracle ERP Cloud Service integrations, not only can you preserve your IT investments but also derive higher returns from them.

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