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**PROJECT PORTFOLIO  
MANAGEMENT**

# Integration with Oracle Project Portfolio Management Cloud

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## Executive Overview

Cloud computing is a vision that is increasingly turning to reality for many companies. Enterprises, both small and big, are evaluating cloud computing and, in increasing numbers, are moving their IT infrastructure to the cloud.

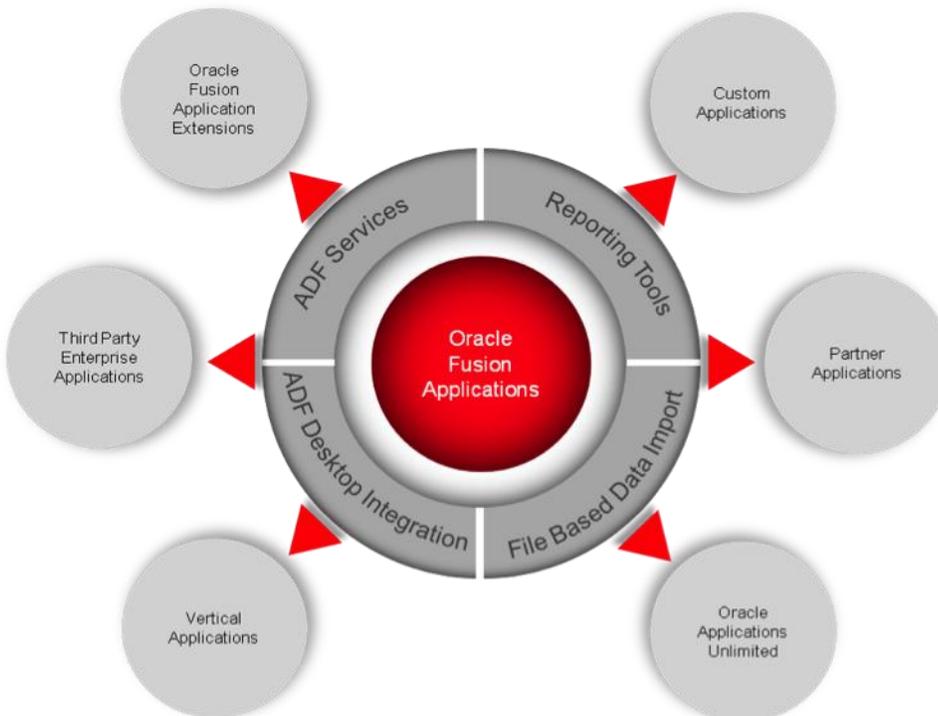
While deploying a cloud application or subscribing to a cloud-based service may be relatively straightforward, how will it integrate with other existing enterprise applications, including on-premise systems? In order to benefit from all the advantages of cloud computing, such as greater flexibility and lower costs, data integration becomes extremely important because the data residing in existing applications needs to be synchronized with your Oracle Fusion Cloud Services.

With Oracle Project Portfolio Management Cloud your integration requirements can easily be met with ADF Services, REST Services, ADF Desktop Integration, File Based Data Import, and Reporting Tools.

## Introduction

Oracle Project Portfolio Management Cloud is built with Oracle's Application Development Framework (ADF) and provides four primary methods of integration with other applications: ADF Services (commonly referred to as Web Services), ADF Desktop Integration, File Based Data Import, and Reporting Tools.

This white paper provides a conceptual overview of each type of integration and identifies the associated functional area for each integration point.



## ADF Services

A web service provides a standardized way of integrating two web-based applications. A web service is a program that can be accessed remotely using different XML-based languages. For example, a timecard web service may implement functions to validate a project and task, and create or update a time entry. These functions are described in a web service description (WSDL) file that any consumer can invoke to access the Project Unprocessed Labor Transaction web service. As a result, a consumer does not have to know anything more about the web service than the WSDL file that describes what it can do. A web service consumer (such as a desktop application or other application) invokes the web service by submitting a request in the form of an XML document to the web service provider.

Oracle Project Portfolio Management Cloud uses Oracle's ADF Business Components (ADF Service) to create its web services. Fusion Project Portfolio Management web services are documented in detail in the Oracle Help Center.

The following table identifies some key ADF Services for Oracle Project Portfolio Management Cloud:

Award	Award Funding	Award Project
Contract Line Internal Attributes	Confirm Invoice Acceptance Status in Receivables	Create Contracts
Migrated Project Billing Event Update	Project Billing Event	Project and Resource Calendar Event
Project Budget	Project Enterprise Resource	Project Forecast
Project Issue	Project Plan	Project Pricing Service
Project Resource Request	Project Resource Assignment	Project Task Version 2
Project Unprocessed Asset Usage Transaction	Project Unprocessed Burden Transaction	Project Unprocessed Commitment Transaction Version 3
Project Unprocessed Expense Report Transaction	Project Unprocessed Inventory Transaction Version 2	Project Unprocessed Labor Transaction Version 3
Project Unprocessed Miscellaneous Transaction	Project Unprocessed Supplier Invoice Transaction	Project Unprocessed Work in Process Transaction
Project Work Plan Version 2	Project Version 2	

**Note: Services are versioned within each release. Utilize the latest version of the service for the release with which you are working.**

## Representational State Transfer (REST) Service

Create and maintain projects from any third-party application using a Representational State Transfer (REST) service. Oracle Project Portfolio Management Cloud delivers REST APIs to facilitate integration with third-party applications. For example, using these REST APIs project administrators can easily update and maintain projects:

**Project Progress:** An object that includes the attributes that are used to store the progress data for a project.

**Projects:** The project resource is used to view, create, or modify a project. A project is the effort and resources required to achieve a significant business objective within a specific, usually finite, time frame.

Create projects with a minimum set of attributes, such as a project name, start date, and project manager. Optionally specify a project template to manage the financial aspects of the project. Projects created without a project template are available for planning and scheduling, while projects with a template are also available for financial management purposes, such as tracking costs and generating invoices.

## ADF Desktop Integration

ADF Desktop Integration (ADFdi) is also part of the ADF framework and enables desktop integration with MS Excel spreadsheets to manage large volume data uploads into Fusion Applications. The integration provided with ADFdi includes interactivity that enables web picker to search for valid values, perform validation during data entry, display error messages, and immediately submit transactions directly from Microsoft Excel.

Oracle Project Portfolio Management Cloud makes extensive use of ADFdi with the following integrations:

Costed or Accounted Expenditure Transactions for Third-Party Applications	Uncosted Labor Transactions for Third-Party Applications	Uncosted Nonlabor Transactions for Third-Party Applications
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Manage Budget/Forecast: Edit Version in Excel	Create Project Requirements in Excel	Create Asset Additions
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## File Based Data Import

File Based Data Import (FBDI) is another option for getting information into your Oracle Project Portfolio Management Cloud. The process of using FBDI is quite simple: download an excel template that identifies all of the fields, populate the spreadsheet with data from the external system, save the file as a .csv file type, upload the file to the server, and run processes to transfer the data to the interface tables and import into the various applications. All of the data is validated during import to insure its integrity.

The following table identifies the FBDI options available in Oracle Project Portfolio Management Cloud. Fusion Project Portfolio Management file-based data imports are documented in detail in the Oracle Help Center.

Import Project Labor Costs	Import Project Nonlabor Costs	Import Project Expense Costs
Import Project Supplier Costs	Import Project Miscellaneous Costs	Import Project Inventory Costs
Import Projects	Import Project Tasks	Import Project and Task Transaction Controls
Import Project Plan	Import Project Enterprise Resources	Import Project Enterprise Expense Resources
Import Project Resource Requests	Import Resource Actual Hours	Import Project Budgets
Import Awards	Import Project Rate Schedules	Import Project Forecasts
Import Project Billing Events	Import Project Resource Assignments	Import Project Contract Billing Details
Import Resource Pools and Memberships		

## Reporting Tools

Oracle Project Portfolio Management Cloud leverages the functionality of Oracle Transactional Business Intelligence Reporting, which can be used to extract data for import into your external systems.

Oracle Transactional Business Intelligence for Projects Cloud Service provides the ability to build custom queries on transactional data, and the output can be downloaded to Excel.

Oracle Project Portfolio Management Cloud provides the following subject areas to report on real time data.

Project Billing - Event Real Time	Project Billing - Funding Real Time	Project Billing - Invoices Real Time
Project Billing - Revenue Real Time	Project Control - Budgets Real Time	Project Control - Forecasts Real Time
Project Control – Progress Real Time	Project Costing - Actual Costs Real Time	Project Costing - Assets Real Time
Project Costing - Commitments Real Time	Project Costing - Expenditure Item Performance - Real Time	Project Costing - Unprocessed Transactions Real Time

Project Management – Change Management Real Time	Project Management – Opportunity Integration Real Time	Project Management - Planning Real Time
Project Management - Project Hierarchy Real Time	Project Management - Project Issues Real Time	Project Management - Project Resources Real Time
Project Management - Project Work Items Real Time	Project Management – Requirements Real Time	Project Management - Task Management Real Time
Project Resource Management - Resource Management Real Time	Projects - Cross Subject Area Analysis - Real Time	Projects - Grants Management – Award Analysis Real Time
Projects - Grants Management – Award Funding Real Time		

In addition, Smart View is an Excel plug-in that allows business users to perform ad hoc multi-dimensional analysis on project financial performance in real-time.

## Conclusion

There are many advantages to moving your Project Portfolio Management system to the cloud, such as agility and operational cost savings, but it should not increase the cost and complexity of your integration requirements. With Oracle Project Portfolio Management Cloud your integration requirements can easily be met with ADF Services, ADF Desktop Integration, File Based Data Import, and Reporting Tools.



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