

# Custom Object Adapter for CA PPM

## At a Glance



Custom objects help extend CA PPM functionalities to support a variety of needs such as forms on a project, source list for lookups, and many more. Custom objects are often critical to a CA PPM deployment, and the custom object instances must be in sync with a source system. The Custom Object Adapter for CA PPM helps with importing/updating such custom object instances from external systems of record.

The Custom Object Adapter is CA SaaS compliant, and leverages an integration framework that supports integration via flat files or via web services. This ensures that the integration is not restricted to any single ERP solution.

The integration framework enables easy configuration of attribute mappings, and business and validation rules through custom objects. It also has a comprehensive error handling capability.

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## Key Outcomes: Why Custom Object Adapter?



- Reduces overhead on various functions such as PMO, Finance, and System Administration teams tasked with updating custom object data.
- Ensures that custom object data is current and in sync with the system of record.
- Automation with validation for data quality and correctness prior to loading the custom object data to CA PPM.
- Provides complete administrative control for determining the frequency of update to the custom object data in CA PPM via CA PPM's native job scheduler.
- Robust error handling and reporting via multiple portlets

## What Does the Custom Object Adapter Automate?

Creation and update of custom object instances which encompass a wide variety of use cases such as:

- Project Checklists.
- Source lists for lookups.
- Data from external systems for reporting.
- Any custom functionality delivered using a custom object.

													By Period											
	Region	Grid Coordinate	Department	Unit Name	Type	Country	Transfer	Subcontracted	Posted Actuals	Forecast			Jan 14	Feb 14	Mar 14	Apr 14	May 14	Jun 14	Jul 14	Aug 14	Sep 14	Oct 14	Nov 14	Dec 14
<input type="checkbox"/>	EMEA	A003	Project Management	Review Data Validation Manual	Protocol	Mexico		No	0.00	270.00	Actuals+Pending Forecast Prior Forecast		45.00	45.00	45.00	45.00	45.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<input type="checkbox"/>	EMEA	A003	Project Management	Review Data Validation Manual	Protocol	United States		No	0.00	0.00	Actuals+Pending Forecast Prior Forecast		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<input type="checkbox"/>	EMEA	A003	Project Management	Review Data Validation Manual	Protocol	Brazil		No	0.00	0.00	Actuals+Pending Forecast Prior Forecast		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Figure 1: A Custom Object for Storing Information on Units on a Project

## How It Works

- The Custom Object Adapter accepts custom object data from an external system in the form of delimited flat file (.csv, .txt), validates date, forms the required web service request and loads the data in to CA PPM.
- Where possible, the Custom Object Adapter may also make direct web service calls to retrieve data (instead of using flat files).  
*Recommendation: For an adapter of this type, CA recommends the use of file-based batch integration due to the likely volume of data and accessibility restrictions to the source system.*
- The following portlets are configured to monitor and diagnose errors during operation of the Custom Object Adapter:
  - **Custom Object Adapter** portlet provides the summary information for all Custom Object Adapter jobs with ability to filter for a specific execution of the Custom Object Adapter job.
  - **Custom Object Adapter Archive** portlet provides the summary information of validation errors, warnings and errors from XOG for a specific execution the Custom Object Adapter job.
  - **Custom Object Adapter Errors** portlet provides detailed information on the validation errors, warnings and run time errors for a specific execution of the Custom Object Adapter job. This portlet helps identify the source of the error and take corrective actions.
  - **Custom Object Adapter XOG** portlet provides detailed information on the XOG input and output generated in a specific execution of the Custom Object Adapter job. This portlet helps identify XOG errors and take corrective actions.

*Note: The Custom Object Adapter can be configured to send email alerts to administrators indicating successful completion of the Custom Object Adapter job or failures in the execution of the Custom Object Adapter job.*

**TIP:**

- Where possible ensure that the standard CA PPM Object Instance IDs are utilized as the primary key.

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## Compatibilities



### **On Premise**

CA PPM Version: CA PPM 14.3 or higher.

Database:

- Oracle 11.2 Standard and Enterprise Edition: version 11.2.0.4.x or higher patch level
- Oracle 12c Standard and Enterprise Edition: version 12.1.0.2.x or higher patch level

No MSSQL Support

### **SaaS**

CA PPM Version – CA PPM 14.3 or higher.

**Contact** your CA Services representative for further assistance with purchasing this component.