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Project Integration Engine 2010 Configuration Guide

Author: Michael Bear

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Overview

This document describes the steps to configure Project Integration Engine 2010 for Project Server 2010. After reading this guide you will know how to configure the Project Integration Engine (PIE) 2010 Site collection feature, including:

- Creating Data Sources
- Creating Processing Packages
- Creating Processing Schedules

Prerequisites

To follow this guide, you will have completed the solution installation, deployment and activation guides, and have the following items:

- Administrator rights in Project Server
- Farm Administrator rights in SharePoint Central Administration
- A basic understanding of:
 - Office Data Connection (ODC) files
 - Project Server Internal Field Names
 - The consequences of overloading a server



Data Sources

The Project Integration Engine uses Office Data Connection (ODC) files to access external data sources. For this example, we are extracting Project level data from a Project Server 2010 database to populate a Project Server 2010 instance.

Step 1

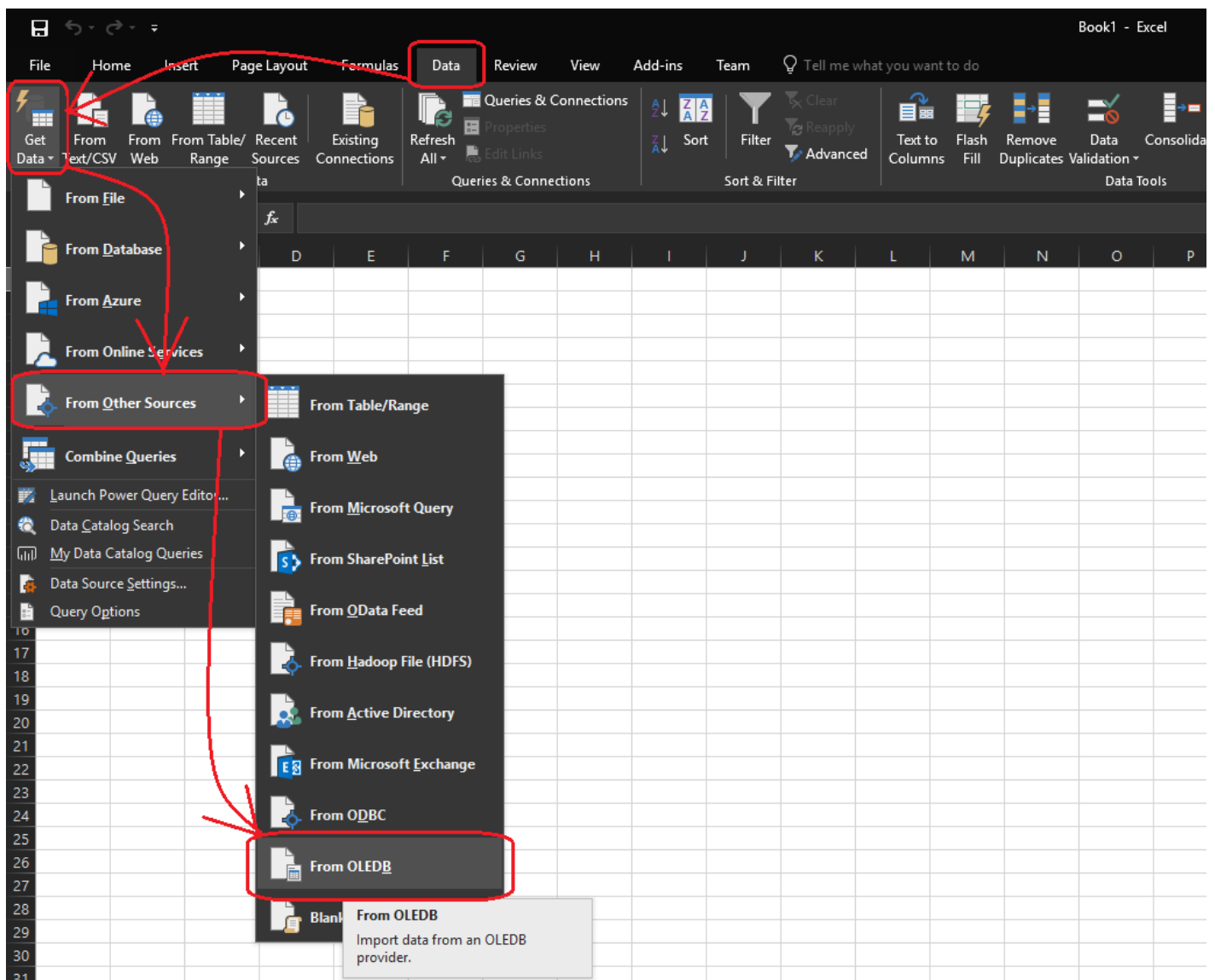
On your local machine, open Excel in a new workbook in Excel.

Select "Data" from the ribbon bar.

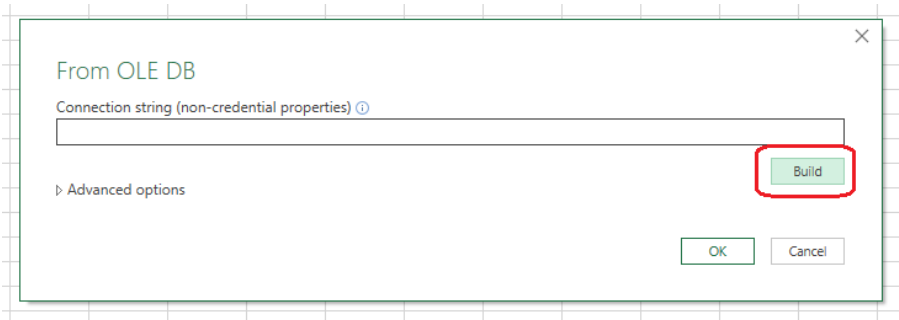
Select "Get Data".

Select "From Other Sources".

Select "From OLEDB".

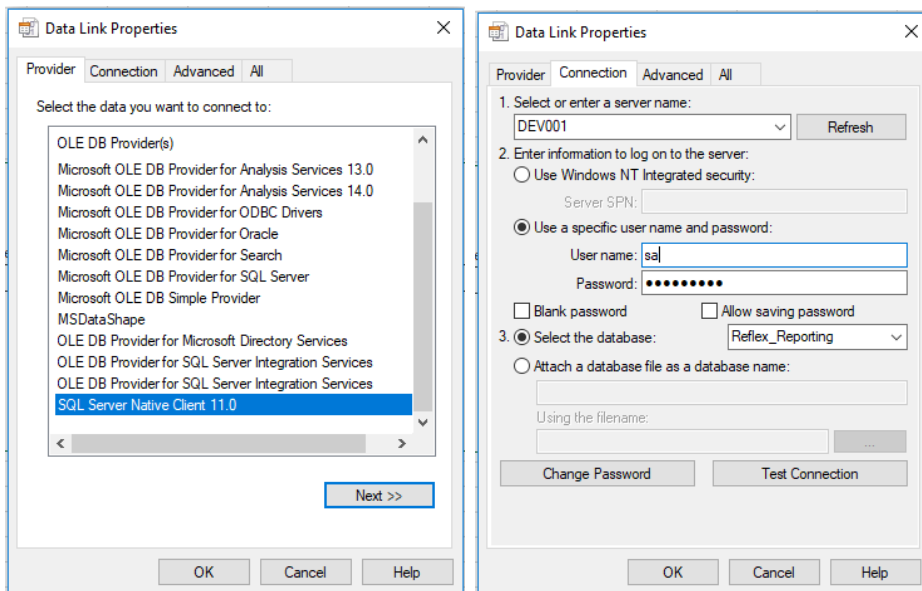


You will be presented with the following dialogue box.



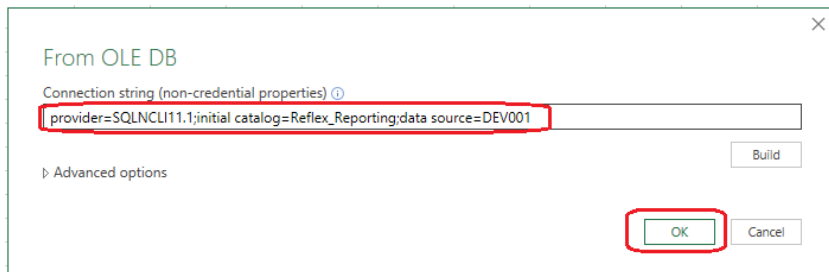
Click "Build".

In the Data Link Properties window, select SQL Server Native Client and in the Connection tab, enter the Server Name, Database name and credentials.



Click "Test Connection" to confirm a valid connection.

Click "OK" to generate the connection string.



Click "OK".



You will be prompted for a user name and password, and optional "Credential connection string properties". Enter the appropriate credentials and click "Connect".

OLEDB provider

data source=DEV001;initial catalog=Reflex_Reportin...

Use a username and password to access a data source with an OLE DB provider.

User name
sa

Password

Credential connection string properties (optional) ⓘ

Back Connect Cancel

In the Navigator window, select the table required.

Navigator

Select multiple items

Display Options ▾

OLE DB (provider=SQLNCLI11.1;initial catal...

AppMng_Service_DB_8e2f2ea1b04a49ac8...

Managed Metadata Service_db9418fetcac...

master

model

msdb

Reflex_Reporting [3]

dbo [3]

Projects

SampleProjects

SampleTasks

INFORMATION_SCHEMA

sys

Reflex_Schemas

Search_Service_Application_AnalyticsRepo...

Search_Service_Application_CrawlStoreDB...

Search_Service_Application_DB_10c98105...

Search_Service_Application_LinksStoreDB_...

Secure_Store_Service_DB_a2d5f0aabf774f...

Projects

ListUID	ListItemId	SiteUrl
83de5ae2-d0b4-4e9a-99d9-d07532de3312	1	http://demo.thorapps.local/Sandpit
83de5ae2-d0b4-4e9a-99d9-d07532de3312	2	http://demo.thorapps.local/Sandpit
83de5ae2-d0b4-4e9a-99d9-d07532de3312	3	http://demo.thorapps.local/Sandpit
83de5ae2-d0b4-4e9a-99d9-d07532de3312	4	http://demo.thorapps.local/Sandpit
83de5ae2-d0b4-4e9a-99d9-d07532de3312	5	http://demo.thorapps.local/Sandpit

Select Related Tables

Load Edit Cancel

Click "Load".



The table data will be displayed in the workbook:

ListItemId	SiteUrl	ListTitle	UpdateKeyDateTime	Modified By	Created By	ProjectCost	ProjectStartDate	Created	Modified	ProjectName
1	http://demo.thorapps.local/SandpitMB	Projects	10/08/2018 0:11	DEV1\administrator	DEV1\administrator	120000	3/08/2018 0:00	10/08/2018 9:34	10/08/2018 9:34	Project Alpha
2	http://demo.thorapps.local/SandpitMB	Projects	10/08/2018 0:11	DEV1\administrator	DEV1\administrator	45000	10/08/2018 0:00	10/08/2018 9:34	10/08/2018 9:34	Project Beta
3	http://demo.thorapps.local/SandpitMB	Projects	10/08/2018 0:11	DEV1\administrator	DEV1\administrator	785000	17/08/2018 0:00	10/08/2018 9:34	10/08/2018 9:34	Project Gamma
4	http://demo.thorapps.local/SandpitMB	Projects	10/08/2018 0:11	DEV1\administrator	DEV1\administrator	2000000	24/08/2018 0:00	10/08/2018 9:35	10/08/2018 9:35	Project Delta
5	http://demo.thorapps.local/SandpitMB	Projects	10/08/2018 0:11	DEV1\administrator	DEV1\administrator	1500000	31/08/2018 0:00	10/08/2018 9:35	10/08/2018 9:35	Project Epsilon

Step 2

Now, we need to export the ODC file.

Under the Data tab, click "Queries & Connections".

In the pane that opens, click "Queries".

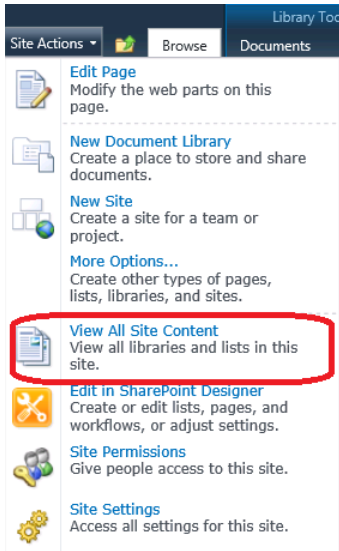
Right click on the query displayed and select "Export Connection File...":

Give it a name and save it as an ".odc" to the desktop or other convenient location (such as "C:\Temp"). Locate the file, and copy it to a convenient location (such as C:\Temp) on the server hosting your Project Web App instance.

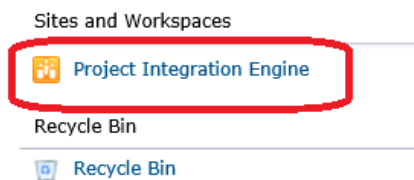


Step 3

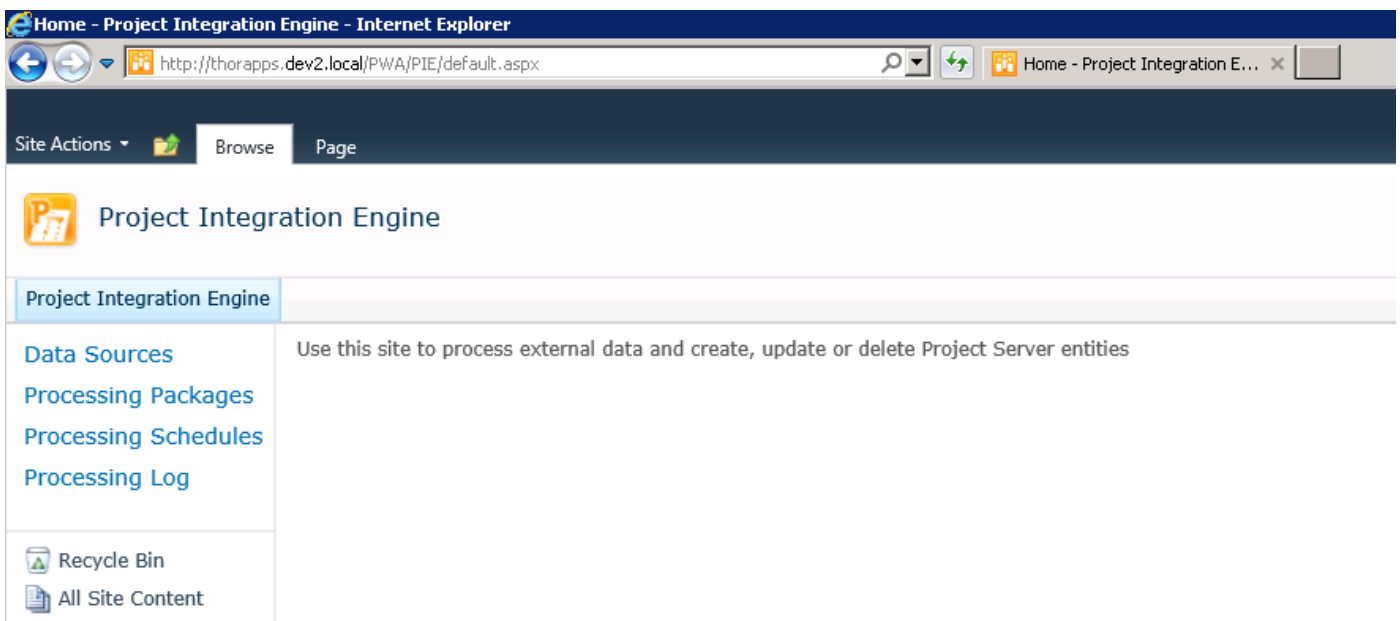
On the server hosting your Project Web App instance, open a browser.
Navigate to the root of your Project Web App instance.
Click "Site Actions" in the upper left and select "View All Site Content".



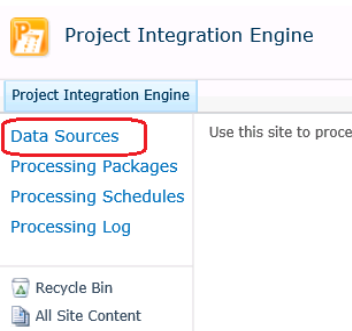
Under "Sites and Workspaces", click "Project Integration Engine".



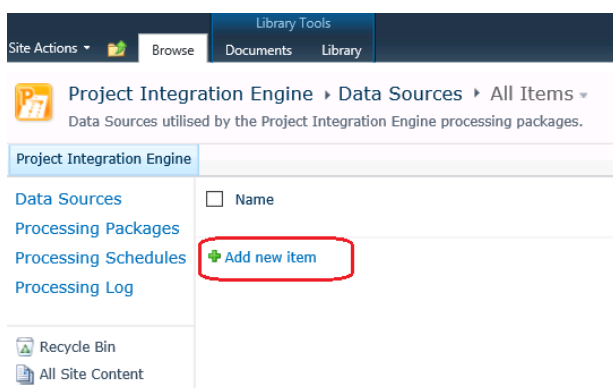
You will be presented with the following page:



Click "Data Sources".



Click "Add new item".



Browse to the document you copied over in the Step 2.
Click "OK".

You will be presented with the following dialogue box.

Data Sources - ProjectList.odc

Edit

Save Cancel Paste Copy Delete Item

Commit Clipboard Actions

Information

The document was uploaded successfully. Use this form to update the properties of the document.

Items on this list require content approval. Your submission will not appear in public views until approved by someone with proper rights. [More information on content approval.](#)

Name * Projects .odc

Title Projects

Description

Keywords

Version: 1.0
Created at 10/4/2018 11:39 AM by Michael Bear
Last modified at 10/4/2018 11:39 AM by Michael Bear

Save Cancel

Give it a Name (required), Title, Description and Keywords (Optional).
Click "Save".

The Data Source is now ready to use. The next section will test if the Data Source is configured correctly.
If it is not, you will get an error message in the source field dropdown boxes.



Notes on Data Sources

The Project Integration Engine reads the ODC file and extracts the connection string for use with an **OleDB** connection. If your ODC file is configured to use an **ODBC** connection, the Project Integration Engine will report the error.

ODBC connections are a legacy technology often still used by Excel to read from text files, (i.e. CSV files). To work around this problem, you do one of the following:

- Import the CSV file into a Database and query the content from the database
- Install the Microsoft Access Database Engine 2010 Redistributable on your SharePoint Application server and manually craft the ODC file.

The Microsoft Access Database Engine 2010 Redistributable can be downloaded from:
<http://www.microsoft.com/enus/download/details.aspx?id=13255>

The manually crafted **OleDB** Connection String inside the ODC file will need to look something like
`"Provider=Microsoft.Jet.OLEDB.4.0;Data Source=C:\TextFiles;Extended Properties='text;HDR=Yes;FMT=Delimited(,)'";"`



Processing Packages

A Processing Package defines how rows from a Data Source are applied to Project Server and defines how the Project Integration Engine will process each row from a Data Source and how it relates each row to existing content.

Step 1

Select "Processing Packages" from the quick launch.

The screenshot shows the 'Project Integration Engine' interface. The top navigation bar includes 'Site Actions', 'Browse', and 'Library Tools' (with sub-items 'Documents' and 'Library'). The breadcrumb trail is 'Project Integration Engine > Data Sources > All Items'. Below this, a description states: 'Data Sources utilised by the Project Integration Engine processing packages.' The left sidebar contains a list of links: 'Data Sources', 'Processing Packages' (highlighted with a red rectangle), 'Processing Schedules', 'Processing Log', 'Recycle Bin', and 'All Site Content'. The main content area shows a table with one column 'Name' and one row 'Projects' with a green 'NEW' status icon. Below the table is a '+ Add new item' button.

Click "Add new item".

The screenshot shows the 'Project Integration Engine' interface, now displaying 'Processing Packages'. The top navigation bar includes 'Site Actions', 'Browse', and 'List Tools' (with sub-items 'Items' and 'List'). The breadcrumb trail is 'Project Integration Engine > Processing Packages > All Items'. Below this, a description states: 'Processing Packages define how and what Project Server Entities are created, updated or deleted.' The left sidebar contains a list of links: 'Data Sources', 'Processing Packages' (highlighted with a red rectangle), 'Processing Schedules', 'Processing Log', 'Recycle Bin', and 'All Site Content'. The main content area shows a table with one column 'Title' and one row 'Data Source'. Below the table is a '+ Add new item' button, which is highlighted with a red rectangle.



Enter a value for Title and select your Data Source.

The screenshot shows the ThorApps configuration interface. The 'Title' field is set to 'Sample Projects' and the 'Data Source' is set to 'PIE Projects'. The 'Entity Identification and matching' section shows 'Project' as the 'Project Server Entity', 'Create and Update' as the 'Process action', 'Report error and stop processing' as the 'Error action', 'Throw an error' as the 'Entity checked out action', 'Throw an error' as the 'Entity missing action', 'None' as the 'New Project Template', 'CAL_NAME' as the 'Entity Target Field', 'Equals' as the 'Matching' operator, and 'Created' as the 'Source Field'. The 'Field Mapping' section is empty.

Wait for the page post-back to complete as it needs to query the data source to get the list of source fields to display. This may take a while depending on your Data Source query design. Ensure there is no error message in the "Source Field" drop-down box. If there is an error with the Data Source, this is where the error message will appear.

Step 2

Check that...

- "Project Server Entity" is set to "Project"
- "Process action" is set to "Create and Update"
- "Error action" is set to "Report error and keep processing"
- "Clear previous log entries" is checked
- "Entity checked out action" is set to "Force check-in"
- "Project missing action" is set to "Throw an error"
- "Publish entity changes" is checked
- "New Project Template" is set to "None" (this field allows you to specify a Project Template when PIE creates new projects)

Under "Entity Identification and matching" set

- Target Field to "PROJ_NAME"
- Matching to "Equals"
- Source Field to the field containing the project name (i.e. "Title")



Under Field Mapping create 3 new rows with the following values. Be aware, you need to save each row as it is added, before adding a new row.

Target Field	Source Field	Conversion Rule	Tree Node delimiter	Multi Select Delimiter Delete
PROJ_NAME	Title	Apply Value	(leave blank)	(leave blank)
PROJ_INFO_START_DATE	ProjectStartDate	Apply Value	(leave blank)	(leave blank)
Sample Proposal Cost	ProjectCost	Apply Value	(leave blank)	(leave blank)

Leave the remaining fields at their default values and click "Save".

Site Actions ▾ Browse Edit

Save Cancel Paste Cut Copy Attach File Spelling

Commit Clipboard Actions Spelling

Data Sources
Processing Packages
Processing Schedules
Processing Log

Recycle Bin
All Site Content

Title * Sample Projects

Data Source PIE Projects ▾

Data Source Filter

Field Mappings

License Status: Trial has 30 days remaining.

Project Server Entity Project ▾

Process action Create and Update ▾

Error action Report error and keep processing ▾

Clear previous log entries ☒

Entity checked out action Force check-in ▾

Entity missing action Throw an error ▾

Publish entity changes ☒

New Project Template None ▾

Entity Identification and matching

Entity	Target Field	Matching	Source Field
Project	PROJ_NAME	Equals	Title

Field Mapping

Edit Target Field	Source Field	Conversion Rule	Tree Node Delimiter	Multi Select Delimiter	Delete
PROJ_NAME	Title	Apply Value	N/A	N/A	✕
PROJ_INFO_START_DATE	ProjectStartDate	Apply Value	N/A	N/A	✕
Sample Proposal Cost	ProjectCost	Apply Value	N/A	N/A	✕

➕ Add new item

Test Mode * ☐
Use Test Mode to test a Processing Package.
Test Mode will not change data, but will log processing errors as if it did. Test mode will not catch all possible errors.

Minimum Log Level * Warning ▾

Monitor Queue * 1 Hour ▾

Priority * 0

Save Cancel

This will create a Processing Package. The next task is to create a Processing Schedule.



Notes on Processing Packages

The Processing Package item page will change depending on the "Project Server Entity" value selected under "Field Mappings". The section below gives a brief overview of the page areas and purpose.

The screenshot shows the ThorApps Processing Package configuration page. The page is divided into several sections, each highlighted with a colored border to indicate its function:

- Red Area:** Contains the "Data Source" dropdown menu and the "Data Source Filter" text input field.
- Green Area:** Contains the "Project Server Entity" dropdown menu, "Assignment Status" dropdown, "Process action" dropdown, "Error action" dropdown, "Clear previous log entries" checkbox, "Entity checked out action" dropdown, "Entity missing action" dropdown, and "Publish entity changes" checkbox.
- Orange Area:** Contains the "Task Parent" dropdown menu, "Task Parent Field Empty Value" text input field, and "Auto Approve Status Updates" checkbox.
- Blue Area:** Contains the "Entity Identification and matching" section, which includes a table with columns for Entity, Target Field, Matching, and Source Field. The table lists Project, Task, Resource, Assignment Start Date, and Assignment Finish Date.
- Pink Area:** Contains the "Field Mapping" section, which includes a "Field Mapping" dropdown menu and a "Add new item" button.
- Yellow Area:** Contains the "Test Mode" checkbox, "Minimum Log Level" dropdown menu, "Monitor Queue" dropdown menu, and "Priority" text input field.

At the bottom right of the page, there are "Save" and "Cancel" buttons.

The **Red** area doesn't change and is used to select and filter the source data.

The **Green** area doesn't change and controls the actions to take when processing.

The **Orange** area changes depending on the "Project Server Entity" selected and defines Entity specific processing variables.

The **Blue** area changes depending on the "Project Server Entity" selected and defines how rows from the Data Source are related to existing content in Project Server.

The **Pink** area is changed by the user and controls which and how target fields are populated from source fields.

The **Yellow** area doesn't change and controls how to process and what to log.



Processing Packages - Detailed Field Description

Field Name	Value/s	Description
Title	User defined	The name of the Processing Package
Dataset	Selected from the list of available Datasets	The Source Data used by the Processing Package. The Source Data must be singular rows of a single Project Server Entity type (i.e. all Projects and no Tasks, or all Tasks and no projects etc.)
Dataset Filter	User defined	The Dataset filter is a simple filter applied to the set of rows after they have been retrieved from the Dataset. This is an inefficient method of filtering. Preferably the data should be filtered by the source system.
Project Server Entity	Project Task Resource Resource Rate Resource Calendar Exception Assignment Assignment Status Lookup Table	This field determines what Entity type is being processed and therefore how the row data is processed. Changing this field causes a page post back and changes the fields available on the page.
Process action	Create and Update Create only Update only Delete	Determines what action you want the processor to apply to Project Server
Error action	Report error and stop processing Report error and keep processing	Determines what the processor should do if an error is encountered while processing a Data Source row
Clear previous log entries	Checked Unchecked	Deletes old entries from the Processing Log list for this package when the package processing is started.
Entity checked out action	Throw an error Force check-in Skip item	Determines what action the processor should take if the entity to process is checked out
Project missing action	Throw an error Skip item	Determines what action the processor should take if the Project for an entity is missing. This field only applies to Projects, Tasks and Assignments.
Publish entity changes	Checked Unchecked	Determines if the processor should publish changes after processing a Project, Task or Assignment row
Task Parent	Selected from the field names available on the Data Source	Tasks can exist in a hierarchical structure, but the Dataset only allows for flat table rows. Therefore, to define the relationship between parent and child tasks there must be a field in the Dataset row that determines which other row is the parent task.
Task Parent Field Empty Value	User defined	If the Dataset contains a hierarchical structure of Tasks and a field is defined as the Task Parent field, there must be a value for Tasks with no parent (i.e. level 0 tasks)



Auto Approve Status Updates	Checked Unchecked	If processing Assignment Status rows, checking this field will also Approve the changes made to the Status Updates.
Lookup Table Value Tree Delimiter	User defined	Lookup tables can be a hierarchical structure, but the Dataset only allows for flat structures. Usually a lookup tree value is defined by a delimited list of values defining the values position in the tree. This field allows you to define the delimiter character (or string) used in the Dataset
Test Mode	Checked Unchecked	Determines if the changes should actually be made to Project Server or just tested. Checking this field will apply no change to Project Server, but will not catch all possible errors
Minimum Log Level	Information Warning Error	Determines the minimum event level to log in the Processing Log list. Logging all Information items can add significant load to the server. It is recommended this value be kept at Warning.
Monitor Queue	Don't Monitor [Some Times] Indefinitely	The Project Integration Engine uses the Project Server queue to process changes into Project Server. By default it will keep track of each change and won't start the next change within the same session until the first has completed (or errored). Setting this value to "Don't Monitor" will just log the jobs into the Project Server queue and move on to the next task, however if an error was to occur, the Project Integration Engine will not know about it and continue to process without logging the error. Recommended setting for this field is "1 Hour". This leaves plenty of time for the Project Server queue to catch up, without causing the processor to fail.
Priority	User defined integer	This field is used to determine the order of execution of Processing Packages when bundled together in a Processing Schedule. Processing Packages are executed in ascending Priority order (i.e. 0 is first, followed by 1 and then by 2)



Entity Identification and matching

The Project Integration Engine assumes the Dataset contains a unique set of rows for the Project Server Entity type selected. For example, if the Project Server Entity "Project" is selected, the Dataset must contain only 1 row for each project. If the Project Server Entity "Assignment" is selected the Dataset must contain only 1 row for each Project, Task and Resource combination. Therefore, the Project Integration Engine needs to know which fields determine the uniqueness of a row in the Dataset. When processing a Dataset that contains rows of Project Server Entity "Project" this can be determined with a single field (usually a Project Number or Name). When processing a Dataset that contains rows of Project Server Entity "Task" this needs to be determined with 2 fields (1 to identify the Project the task relates to and the second to identify the Task itself)

In addition to identifying the fields that determine the row uniqueness, the Project Integration Engine also needs to know how each of these fields map to a field for the entity within Project Server. This information is used to determine if the row should result in adding new data, updating existing data or deleting existing data in Project Server.

The Entity Identification and matching field "Matching" should always be "Equals" and only changed by advanced users that fully understand the meaning of the alternatives.



Field Mapping

The Field Mapping section allows you to determine which field in the Data Source is applied to which field (for the Project Server Entity selected) in Project Server. The Target Field is the Project Server field being populated and the Source Field is the field from the Data Source being read.

Obviously, the Field Mapping section does not apply when "Process action" is "Delete" and can contain no field mapping rows.

The **Conversion Rule** field allows you to either simply ignore this field mapping, directly apply the value from the Source Field, or apply the value from a lookup table where the lookup table value description contains the information that can be seen in the Source Field.

The **Tree Node Delimiter** field is used when the Source field is a delimited list of values defining a node in a tree structure. This is used when the Target field is a Project Server custom field that references a Lookup table that has a treed structure and contains duplicate tree node values but in different tree branches (i.e. Department.Branch 1.John Smith is different to Department.Branch 2.John Smith).

The **Multi Select Delimiter** field is used when populating a Custom field that relates to a lookup table and is configured to allow "multiple values". This field defines the delimiter used in the source data to separate the multiple values.



Processing Schedules

Processing Schedules are used to define a set of Processing Packages to process at a predetermined time and frequency. Processing Schedules are picked up by the SharePoint Timer job "Project Integration Engine Scheduled job processor", and executed within 5 minutes of the Next Start Date. Processing Packages selected in the Processing Schedule are executed in an order determined by the "Priority" field on the Processing Package.

Processing Schedules - New Item

Edit

Save Cancel Paste Copy Cut Attach File Spelling

Commit Clipboard Actions Spelling

Title *

Error Action * Report error and stop processing

Processing Packages *

Add > < Remove

Enabled * ☐

Frequency * 0

Frequency Unit * Run Once

Next Start Date 12 AM 00

Processing should start within 5 minutes of this date and time.

Processing Effort * 25 %

Save Cancel

Step 1

From the quick Launch menu click "Processing Schedules".

Site Actions ▾ Browse List Tools Items List

Project Integration Engine ▸ Processing Schedules ▸ All Items ▾

Processing Schedules define a collection of Processing Packages and a frequency at which they are executed.

Project Integration Engine

Data Sources

Processing Packages

Processing Schedules **+ Add new item**

Processing Log

Recycle Bin

All Site Content

Click "Add new item".



Step 2

Enter

- A value in the "Title" field
- Select the appropriate Processing Package
- Check the "Enable" box
- Enter '1' in the "Frequency" field
- Select "Run Once" for the Frequency Unit
- Pick today's date from the "Next Start Date" field and set the time somewhere in the past.

Processing Schedules - New Item

Edit

Save Cancel Paste Copy Attach File Spelling

Commit Clipboard Actions Spelling

Title * Run Once

Error Action * Report error and stop processing

Processing Packages *

Enabled * ☒

Frequency * 1

Frequency Unit * Run Once

Next Start Date 10/4/2018 12 AM 00
Processing should start within 5 minutes of this date and time.

Processing Effort * 25 %

Save Cancel

Click "Save" to complete the Processing Schedule configuration.



Notes on Processing Schedules

The Project Integration Engine is a multi-threaded application and adjusting the Processing Effort % determines how many threads the application will use. A value of 100% will work the server as hard as it can go and is not recommended. Values between 10 and 80% seem to be the most reliable. For small processing jobs (i.e. less than 5 minutes to execute) we recommend a setting of 75%, while for long running jobs (between 10 minutes and 2 hours) we recommend tuning the effort down to around 25% to ensure other services still execute. For jobs longer than 2 hours we recommend adding an additional Application server to your SharePoint farm and shifting the Timer Jobs for PWA to the new server.

The SharePoint Timer has a minimum execution frequency of 5 minutes, so it may take this long before a job actually starts.

To execute a job immediately:

- Open SharePoint Central Administration
- Click Monitoring (from the Quick Launch)
- Click Review Job Definitions
- Select the "Project Integration Engine scheduled job processor"
- Click "Run Now".



Processing Log

The Processing Log is a list of events reported by the Project Integration Engine when processing schedules and packages. The level of detail reported into the log is configured by the "Minimum Log Level" field on each Processing Package. The log is also cleared of the events for each Processing Package before they are executed (assuming the "Clear previous log entries" field is checked).

You can use the Processing Log to diagnose any errors or warnings reported by the Project Integration Engine, and to determine the length of time it has taken to process a package and/or schedule.

One important item to note about the Processing Log is that it contains events reported from multiple threads executing simultaneously, so if you're diagnosing events reported in it, you need to filter the list by Processing Package and then by Thread ID to highlight only the offending events. It's also a good idea to check the sort order is by ID to ensure you're looking at events in sequential order.

Monitoring a running job

There are two ways of monitoring a running job (Processing Schedule):

The first is by selecting the relevant "Processing Schedule" (using the item view, not the item edit page) and reviewing the "Status" and "Progress" fields. When a Job is completed, these fields will return to "Waiting" and "100%", but the "Next Start Date" will be incremented or the "Enabled" field will be set to "No" (Processing Schedule is disabled if it's "Frequency Unit" field is set to "Run Once").

The second is to list the running jobs in SharePoint Central Administration. To use this method:

- Open SharePoint Central Administration
- Click "Monitoring" in the Quick Launch
- Click "Check job status".

If the job is running it will be listed as "Project Integration Engine scheduled job processor" and have a progress bar reporting the percentage complete.



Importing and Exporting the Configuration

Once you have configured the Project Integration Engine, you will want to migrate the entire configuration to a TEST or Production environment (because you should not be configuring this directly in Production).

Click on the "Project Integration Engine" link in the top link bar to show the home page.

Site Actions ▾ Browse Page Michael Bear ▾

Project Integration Engine

Project Integration Engine Search this site... ?

Data Sources
Processing Packages
Processing Schedules
Processing Log

Recycle Bin
All Site Content

Use this site to process external data and create, update or delete Project Server entities

Import / Export the configuration

☒ Export ☐ Import **Export**

Click "Export" and save the configuration to a file.

Open your destination "Project Integration Engine" environment in a new browser window or tab.

Select the "Import" radio button, click "Browse..." and select the file you just exported.

Click "Import" to complete the configuration migration.

**** WARNING ****

Make sure you update the Data Sources to point to the correct locations for the environment. You might not want to import data from the old environment.

The unchecked "Overwrite existing Data Sources" check box helps to prevent this risk. Please use it with caution.



So What's Next?

Purchasing

If you've completed installing and configuring PIE 2010 and have decided to purchase a license, follow the Purchasing Guide included in your download package.

License Activation

If you have a license for PIE 2010 and wish to activate it, follow the Activation Guide included in your download package.