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Business Object Workflow

Cavallo IT - 2025-12-30 - [Setup](#)

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Overview

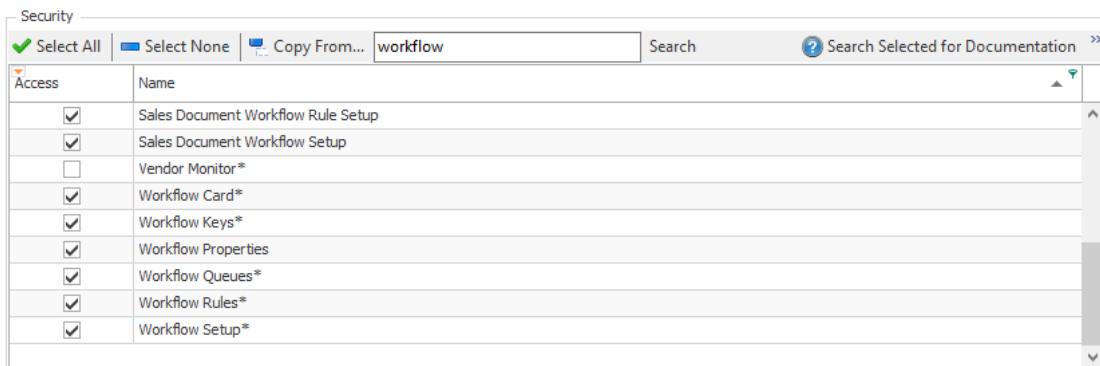
Business object workflows are used to create custom workflows for supported business objects in SalesPad Desktop, tracking and automating your business process through your ERP. Users can add rules, conditions that determine the routes that objects take, and actions such as automatic emailing and scripts, all that govern how business objects are handled in the workflow. This document will go over general workflow configuration and functionality.

The following Business Objects are supported for Business Object Workflows:

- Assembly
- Customer
- Equipment
- In-Transit Transfer
- Inventory Transaction
- Item Master
- Manufacturing Order
- Opportunity
- Prospect
- Purchase Order
- Purchase Receipt
- Returns Tracker Case
- Sales Document (see [Desktop: Workflow](#))
- Vendor

Security Editor

Access to Business Object Workflow functionality will required that your user have access to the following Security Settings that begin with "Workflow". To access the Security Editor, go to Modules -> System -> Security Editor, filter to "Workflow" and make sure all of the following security options are enabled for the group(s) responsible for configuring/maintaining workflow. Do note that many of these Security Settings contain sub-securities that will also need to be enabled such as Workflow Rules >> Can Add Actions.



The screenshot shows a table with two columns: 'Access' and 'Name'. The 'Access' column contains checkboxes, and the 'Name' column lists various workflow-related items. Most items have a checked checkbox in the 'Access' column, except for 'Vendor Monitor*', 'Workflow Card*', 'Workflow Keys*', and 'Workflow Queues*'. The 'Name' column includes: Sales Document Workflow Rule Setup, Sales Document Workflow Setup, Vendor Monitor*, Workflow Card*, Workflow Keys*, Workflow Properties, Workflow Queues*, Workflow Rules*, and Workflow Setup*.

Note: Securities with an asterisk (such as Workflow Rules) have sub-securities that are listed in the middle section of the Security field. Sub-security descriptions appear in the bottom section of the field

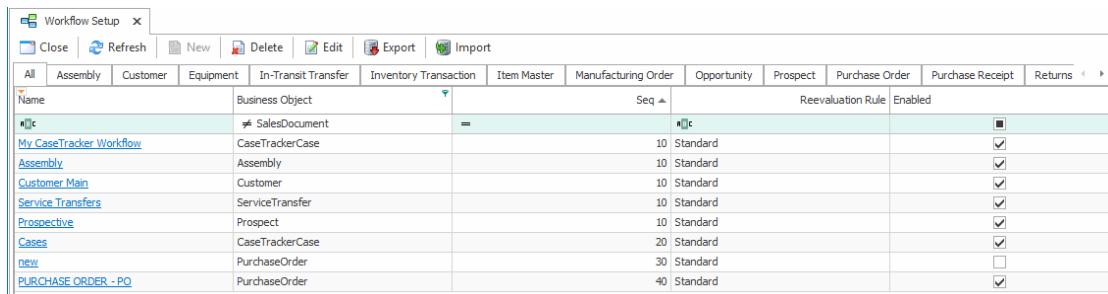
Log off and log back on to SalesPad. Once done, Workflow Setup should now be available on the ribbon.



The screenshot shows the SalesPad ribbon with the 'Setup / Utilities' tab selected. Below the ribbon, there is a grid of icons. The 'Workflow Setup' icon is highlighted with a red box. Other icons include Email Template Editor, Import Manager, Sales Document Setup, SMTP Setup, Layout Maintenance, Smart Printing Maintenance, and a 'Setup / Utilities' icon.

Workflow Setup

The Workflow Setup screen is used to manage workflows for a desired business object. It displays all workflows at a glance under the All tab or groups them under individual business object tabs. For example, clicking the Customer tab will show only Customer workflows.



The screenshot shows the 'Workflow Setup' screen with the 'All' tab selected. The table has columns for Name, Business Object, Seq, Reevaluation Rule, and Enabled. There are 10 rows of data:

Name	Business Object	Seq	Reevaluation Rule	Enabled
My CaseTracker Workflow	SalesDocument	10	Standard	<input checked="" type="checkbox"/>
Assembly	CaseTrackerCase	10	Standard	<input checked="" type="checkbox"/>
Customer Main	Assembly	10	Standard	<input checked="" type="checkbox"/>
Service Transfers	Customer	10	Standard	<input checked="" type="checkbox"/>
Prospective	ServiceTransfer	10	Standard	<input checked="" type="checkbox"/>
Cases	Prospect	10	Standard	<input checked="" type="checkbox"/>
new	CaseTrackerCase	20	Standard	<input checked="" type="checkbox"/>
PURCHASE ORDER - PO	PurchaseOrder	30	Standard	<input type="checkbox"/>
	PurchaseOrder	40	Standard	<input checked="" type="checkbox"/>

Add New Workflow

To create a new workflow, click the **New** button. The Workflow Card will then open, allowing the user to set workflow queues, rules, conditions, and actions. If a specific business object tab was selected prior to clicking the New button, that business object will be pre-selected on the Workflow Card.

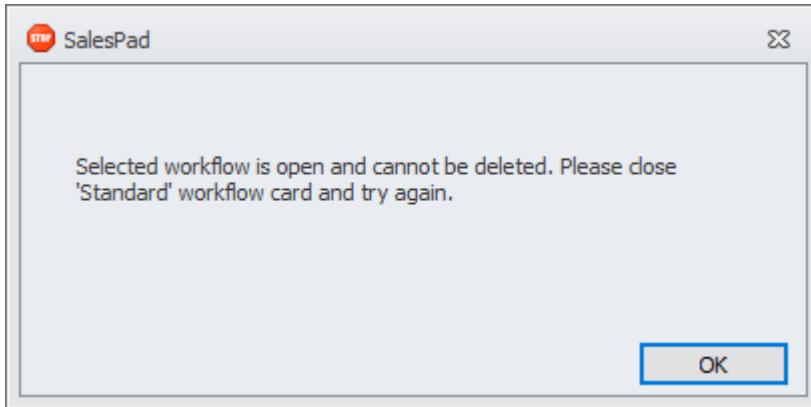
Note: If a particular business object is not available for selection, it will have to be added by the SalesPad development team.

Delete Existing Workflow

To delete an existing workflow, click the **Delete** button.

Note: Workflow cannot be deleted from the Workflow Setup screen if the Workflow Card for that workflow is

currently open in SalesPad. A Workflow also cannot be deleted if there are objects currently assigned to it.

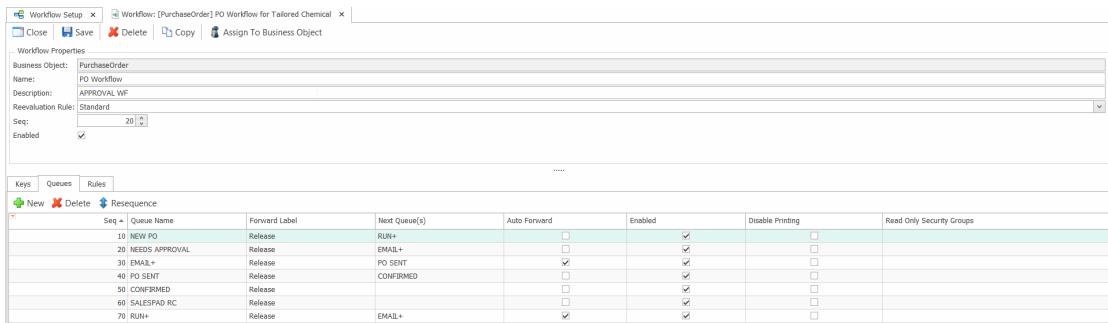


Edit Existing Workflow

To modify an existing workflow, click the **Edit** button. The Workflow Card will open, allowing the user to modify workflow queues, rules, conditions, and actions.

Workflow Card

Workflow Card is used for workflow configuration. Users can enable or disable workflow, edit queues and rules, and set conditions and actions.



Seq #	Queue Name	Forward Label	Next Queue(s)	Auto Forward	Enabled	Disable Printing	Read Only Security Groups
10	NEW PO	Release	RUN+	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	NEEDS APPROVAL	Release	EMAIL+	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30	EMAIL+	Release	PO SENT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40	PO SENT	Release	CONFIRMED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50	CONFIRMED	Release	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
60	SALESPAD RC	Release	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70	RUN+	Release	EMAIL+	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Workflow Properties

Workflow properties apply to the entire workflow. Property fields are:

Business Object - Name of the business object to which the workflow will be applied. Once this field is set and workflow saved, it cannot be changed.

Key - Workflow key is optional and is not required for most business objects. Please see the [Workflow Key](#) section for more details.

Name - Custom name for the workflow. This name will be used to identify the workflow on the Workflow Setup screen.

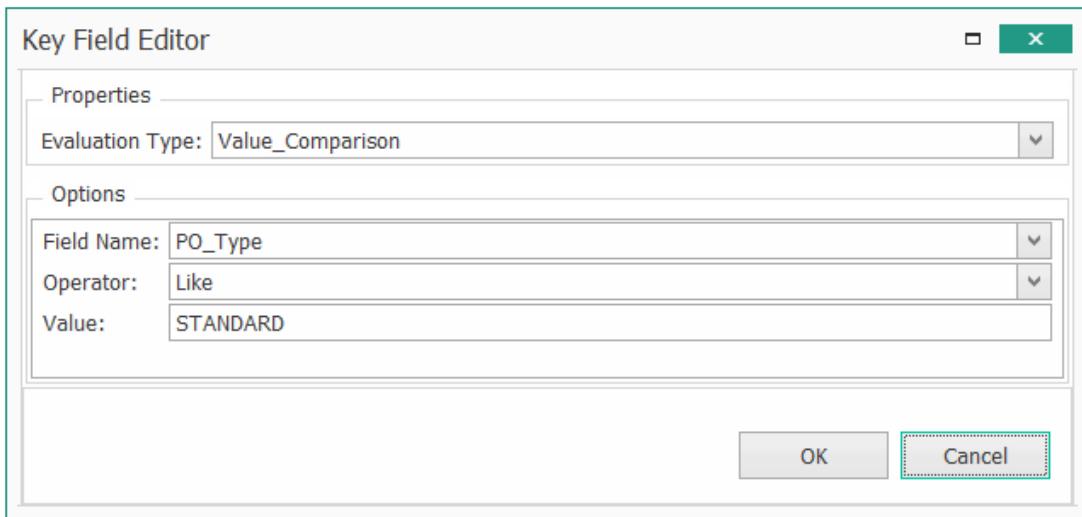
Description - Workflow's purpose can be specified here. This field is optional.

Enabled - Sets the workflow as enabled or disabled.

Workflow Key

Workflow keys allows the user to create multiple workflows for the same business object. Workflow keys are optional.

For example, a workflow key for the Purchase Order business object could be the PO Type field. Purchase order types in Dynamics GP are STANDARD, DROPSHIP, BLANKET, and DROPSHIPBLANKET. This means that theoretically four different workflows can be created for the Purchase Order business object. That being said, SalesPad currently supports only STANDARD and DROPSHIP types so two different workflows can be created.



Queues

Users can add workflow batches on the Queues tab.

Queues						
		Queue Name	Forward Label	Next Queue(s)	Auto Forward	Enabled
	10	NEW PO	Send to Review	REVIEW	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	20	REVIEW	Send and Release	AWT CONFIRM	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	30	AWT CONFIRM	Confirmation Received	AWT RECEIVING	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	40	AWT RECEIVING	Received	CLOSED	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	50	CANCELLED			<input type="checkbox"/>	<input checked="" type="checkbox"/>
	60	CLOSED			<input type="checkbox"/>	<input checked="" type="checkbox"/>

To add a new queue to the workflow, click the **New** button.

Sequence	Assigned automatically and determines queue order (<i>clicking the Resequence button will auto-assign a sequence number to each queue</i>)
Queue Name	The name of the queue (<i>must be unique and is required</i>)
Forward Label	The text of the button used to forward business objects through workflow
Auto Forward	Checking this means the document/object will forward through the queue automatically without user intervention (commonly used to check rules or fire a plugin)
Disable Printing	Checking this disallows printing in that queue
Enabled	Enabled means the queue is active. If this is not checked, the queue is not apart of the workflow
Read-Only Security Groups	Security groups added here can only view objects/documents in the queue, not edit
Next Queue(s)	Designate which queue(s) documents can be forwarded to (<i>if more than one queue is selected here, SalesPad will prompt the user to manually select the desired queue before forwarding</i>)

Note: If more than one batch is selected under Next Queue(s) and the business object is being forwarded from the Workflow Monitor screen, SalesPad will not prompt for the forward batch and will instead forward to the first available batch.

Rules

Users can add workflow rules on the Rules tab. Workflow rules determine how business objects are forwarded through workflow.

The Rules tab is split into three separate sections - Rules, Conditions, and Actions. To add a new rule, click the New button.

Rules

Seq	Name	Description	Evaluate When	Applies To Batch...	Enabled
10	Rule 1		On Enter Batch	CREATE; RESPO...	<input checked="" type="checkbox"/>
20	Rule 2		On Enter Batch	CREATE; RESPO...	<input checked="" type="checkbox"/>
30	Rule 3		On Enter Batch	CREATE; RESPO...	<input checked="" type="checkbox"/>

Conditions

Seq	Condition Type	Description	Enabled
10	Field Comparison		<input checked="" type="checkbox"/>

Actions

Seq	Action Type	Action Finish	Description	Enabled
10	Move To Batch	Continue		<input checked="" type="checkbox"/>

The Rules tab is split into three separate sections - Rules, Conditions, and Actions. To add a new rule, click the New button.

Sequence	Assigned automatically and determines the order in which the rules will be evaluated (clicking the Resequence button will auto-assign a sequence number to each queue)
Name	The name of the rule (this is a required field)
Description	A description of the rule (optional)
Evaluate	Determines when the rule will be evaluated ('On Enter Queue' or 'On Exit Queue')
Applies To Queue(s)	Determine which queue(s) this rule will apply to
Enabled	Enable or disable a rule
Prevents Movement	Allow a rule to prevent a business object from continuing through the workflow if it does not evaluate as 'True'

Conditions

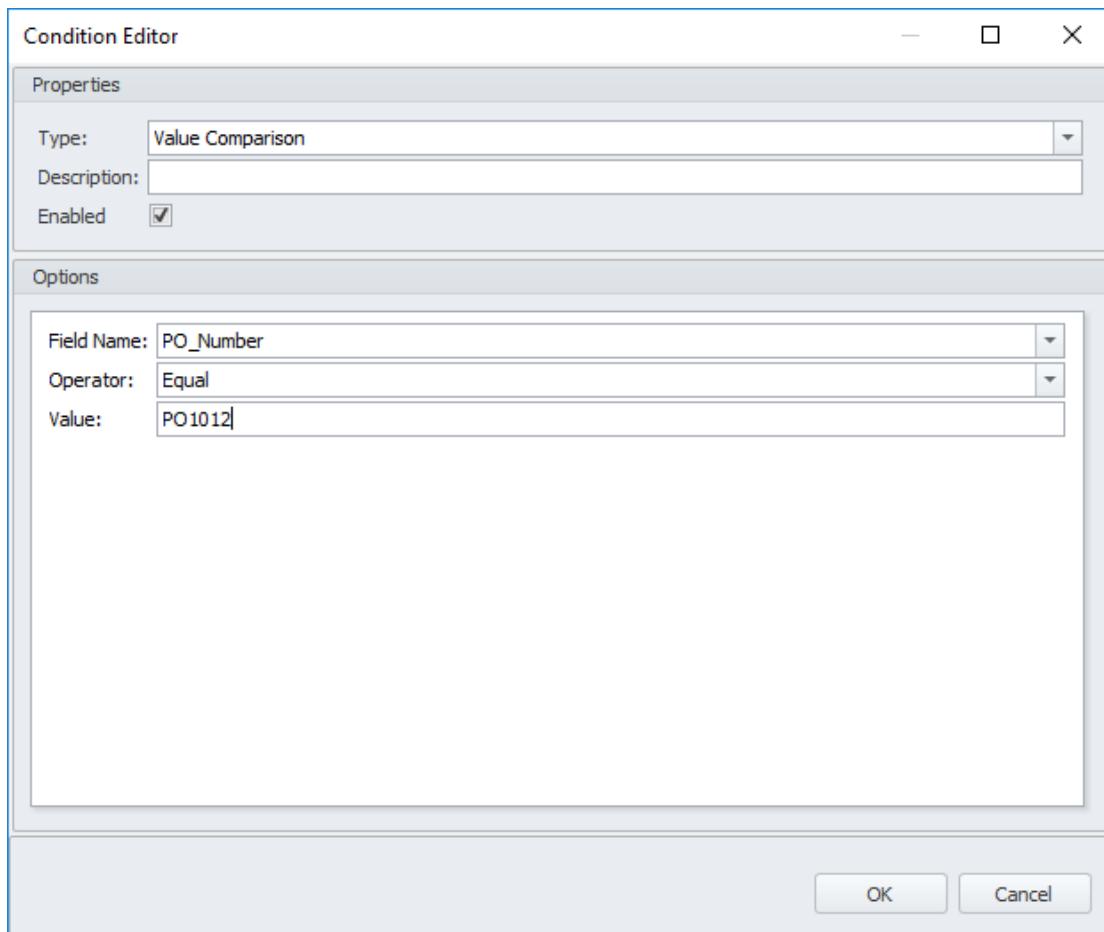
Conditions are conditional statements used to determine if a rule has been satisfied. A rule can have more than one condition, but all conditions must evaluate to true in order for the rule to be satisfied.

Available condition types:

- Value Comparison
- Field Comparison
- SQL Procedure
- C# Script

Value Comparison

Value comparison condition compares a business object field (including user fields) to a static value.

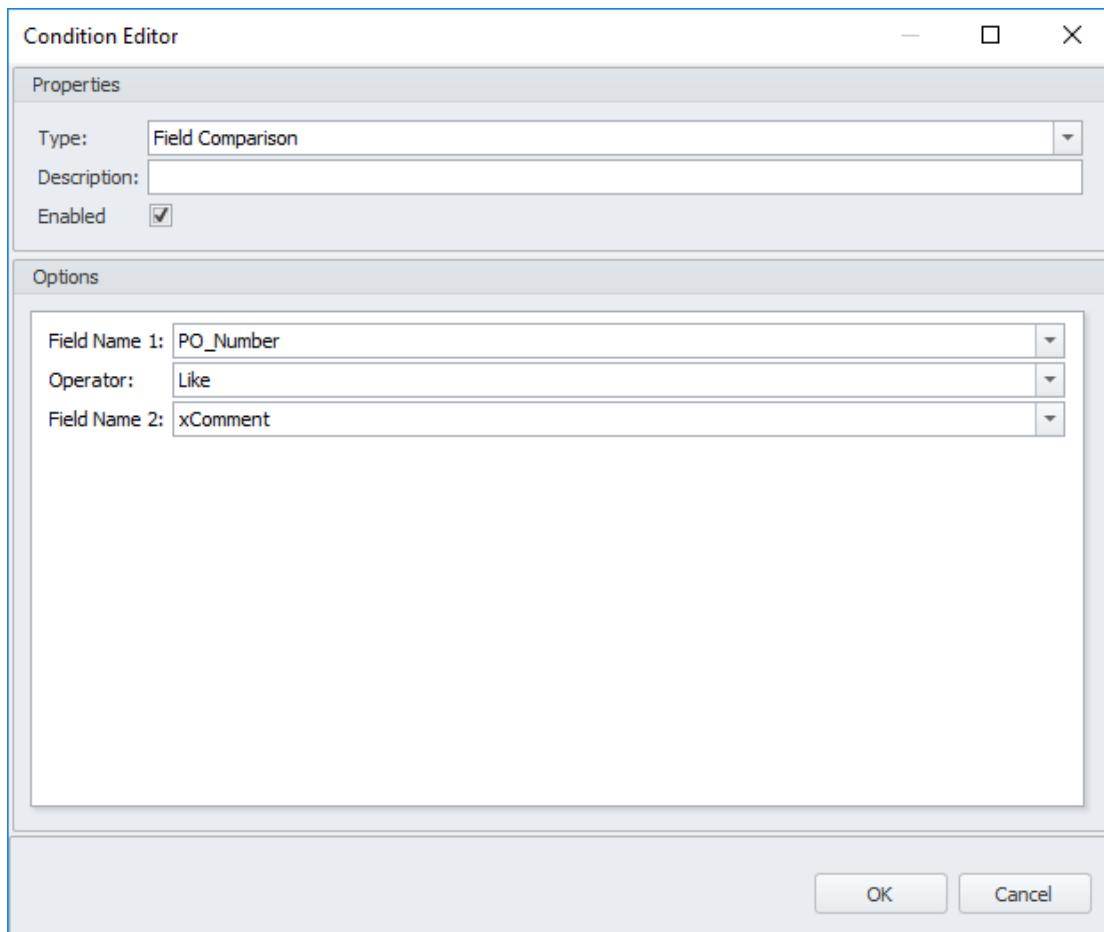


If the field value matches the value entered, the condition will evaluate to true.

Note: Field data type must match the value data type. For example, if the field is of type string, then value must also be string.

Field Comparison

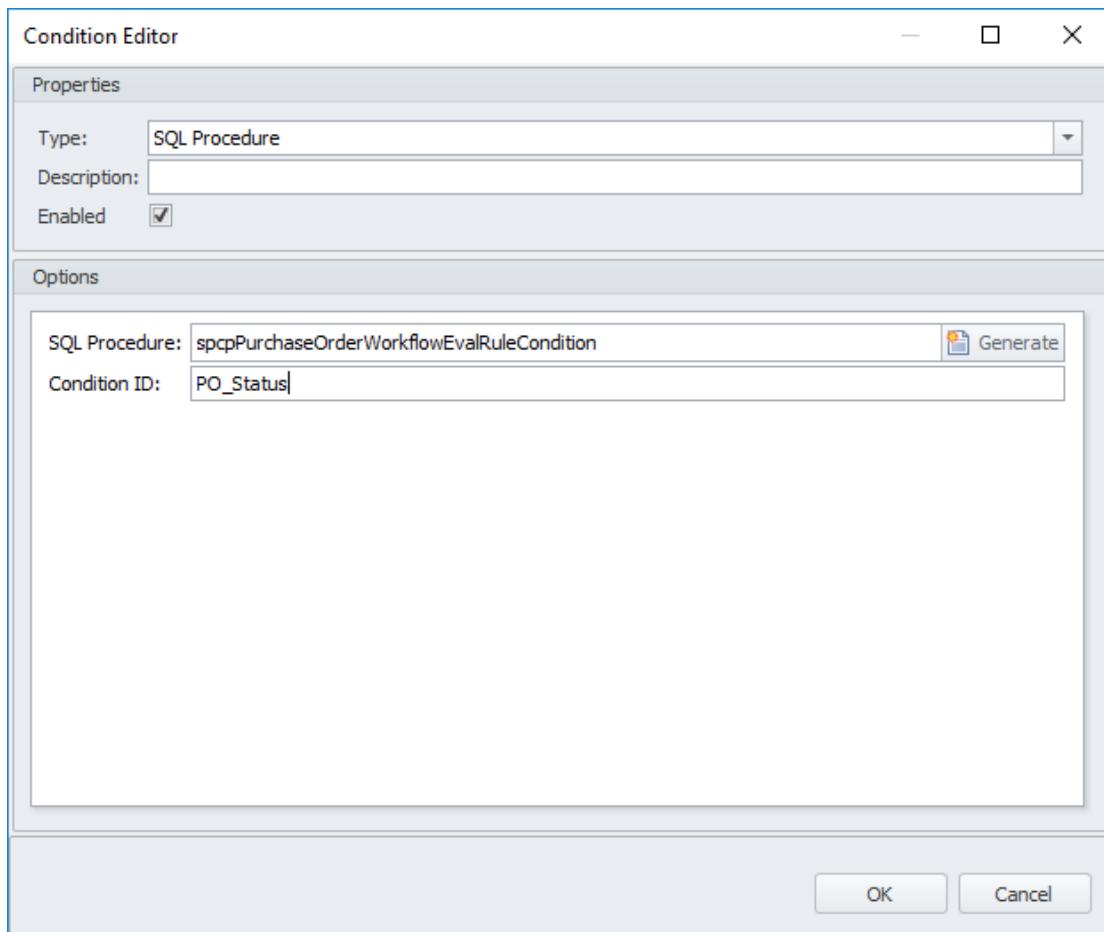
Field comparison condition compares a business object field (including user fields) to another business object field.



If the field value matches the second field value, the condition will evaluate to true.

SQL Procedure

SQL procedure condition uses a SQL stored procedure to compare values.

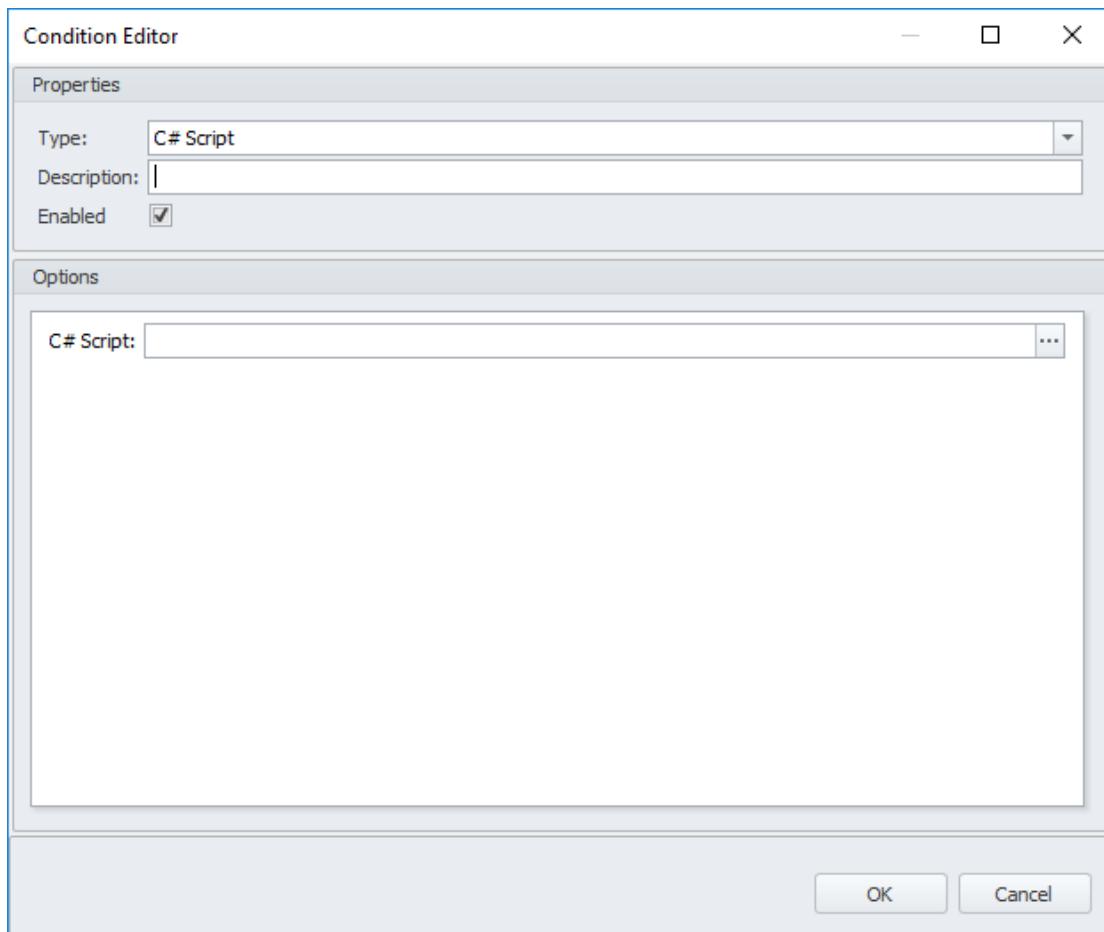


These SQL procedures do not exist in the database by default, but clicking the **Generate** button will create it. For example, SQL procedure for CaseTrackerCase (displays as Returns Tracker Case) business object will be generated as *spcpCaseTrackerCaseWorkflowEvalRuleCondition*.

Generated SQL procedures are empty by default and will need to be edited in Microsoft SQL Server Management Studio by adding desired conditions. Once the conditions are added, the user can then specify them in the Condition ID field.

C# Script

The C# script condition uses a C# script to compare values.



The C# script is the most versatile condition type. It allows the user to write complex conditions in the form of an executable script. The available script parameters are:

`Apollo.Data.BusinessObjectWithWorkflow businessObject`

`Apollo.Data.ValueWrapper conditionMatched`

The `businessObject` parameter is the generic business object that is being forwarded through workflow and will need to be cast to the appropriate business object.

For example; if the business object that is being forwarded is `CaseTrackerCase`, then the cast would look like this:

```
SalesPad.Bus.CaseTrackerCase ctc = (SalesPad.Bus.CaseTrackerCase)businessObject;
```

The `conditionMatched` parameter is a Boolean value wrapper that determines if the condition is true. To make the condition true in the script, set:

```
conditionMatched.Value = true
```

To make the condition false, set:

```
conditionMatched.Value = false
```

Actions

Actions are operational statements that are executed when the rule is evaluated. A rule can have more than one action. If the rule does not have any conditions, all actions are executed. If the rule does have condition(s), all conditions must be true before actions are executed.

Note: Conditions are not required to execute actions. If conditions are not set, all actions will execute.

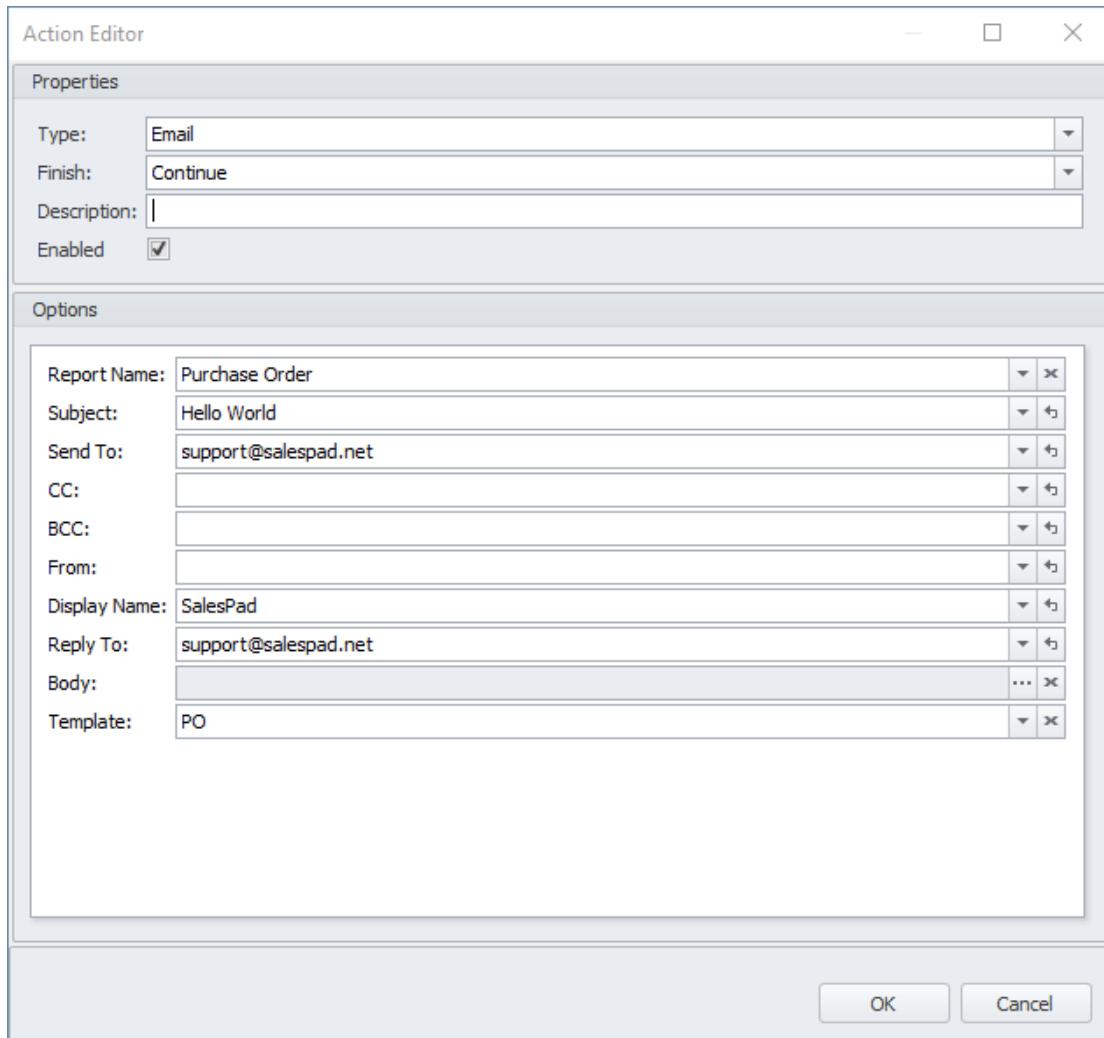
Available actions:

- Email

- Print
- Run Script
- Move To Batch
- Run Plugin

Email

Email action is used to send email messages. Email settings will need to be configured in SalesPad before this action can be used. Please see the Settings section of the [Emailing in SalesPad Desktop](#) for more information.



Report Name - Name of the printed report that will be sent as an attachment in the email message. If the business object does not support printing, this field will be blank.

Subject - Email subject.

Send To - Email address to which email will be sent. Multiple email addresses can be entered in a semicolon delimited list.

CC - Carbon copy email address. Multiple email addresses can be entered in a semicolon delimited list.

BCC - Blind carbon copy email address. Multiple email addresses can be entered in a semicolon delimited list.

From - From email address.

Display Name - Display name that will be shown in the email message.

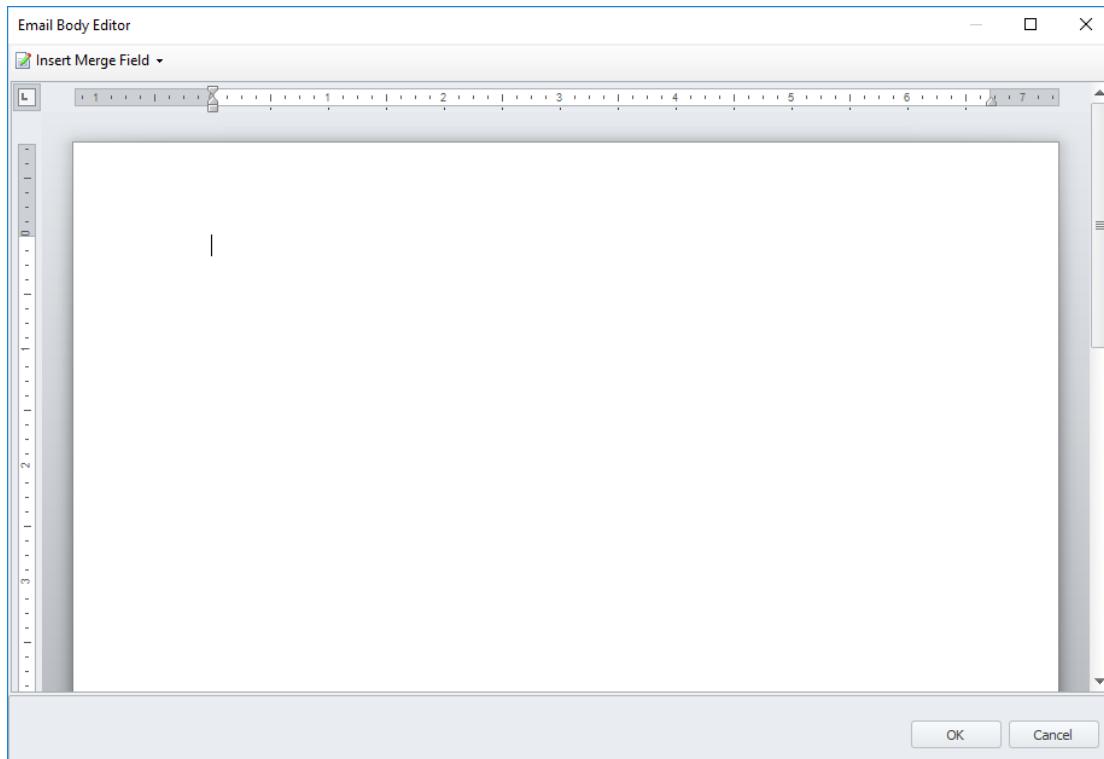
Reply To - Reply to email address.

Body - Body of the email message. Click the ellipsis button to open the Email Body Editor. If email template is being used, this field will be inaccessible.

Template - Email template. If email body is being used, this field will be inaccessible.

Note: Email templates are not available for all business objects. If email template is not available for a selected business object, the Template field will not be available.

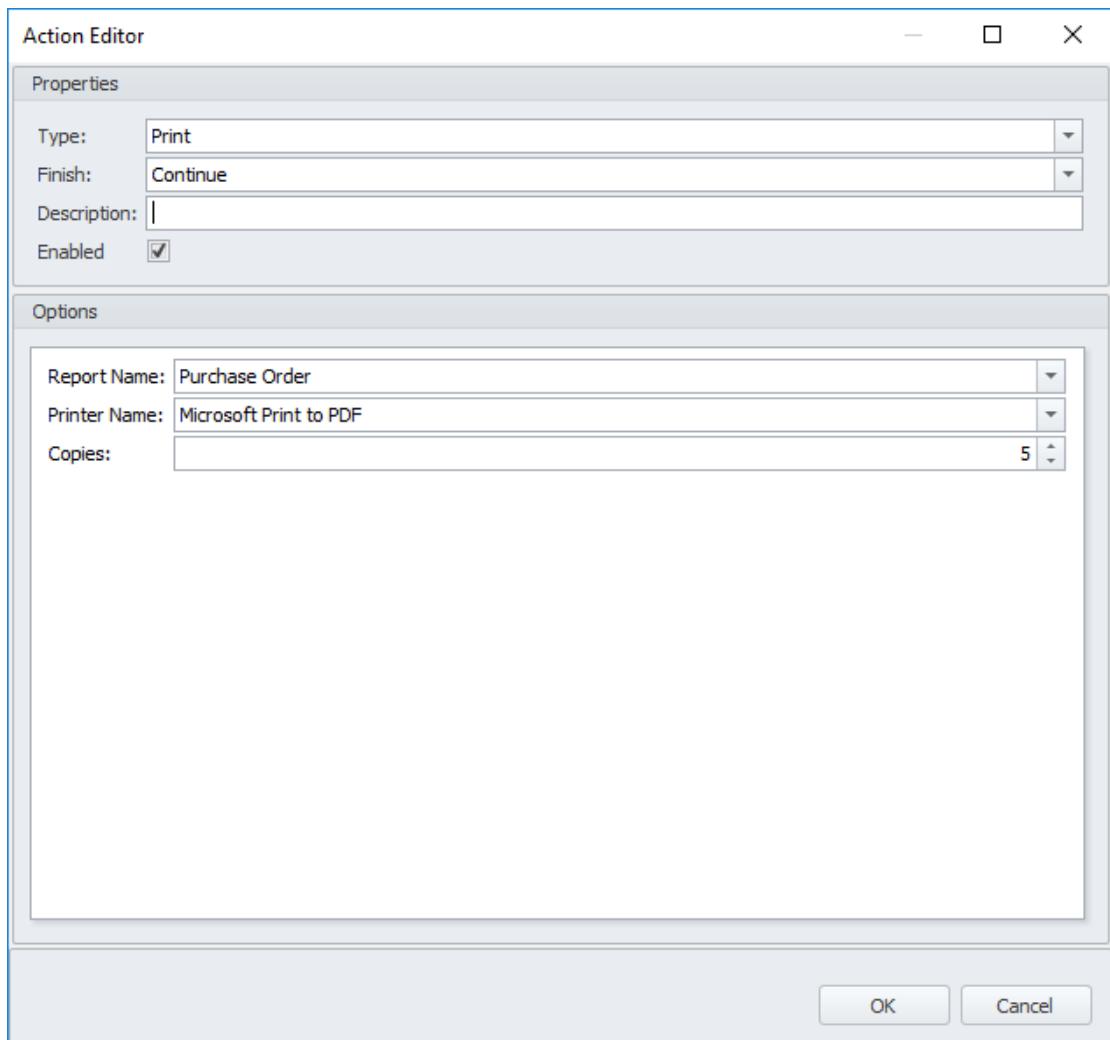
Users can edit email body text using the Email Body Editor.



Email Body Editor is similar to the Email Template Editor in terms of functionality. The user can type the email body text and even insert merge fields by clicking the **Insert Merge Field** button.

Print

Print action is used to print reports.

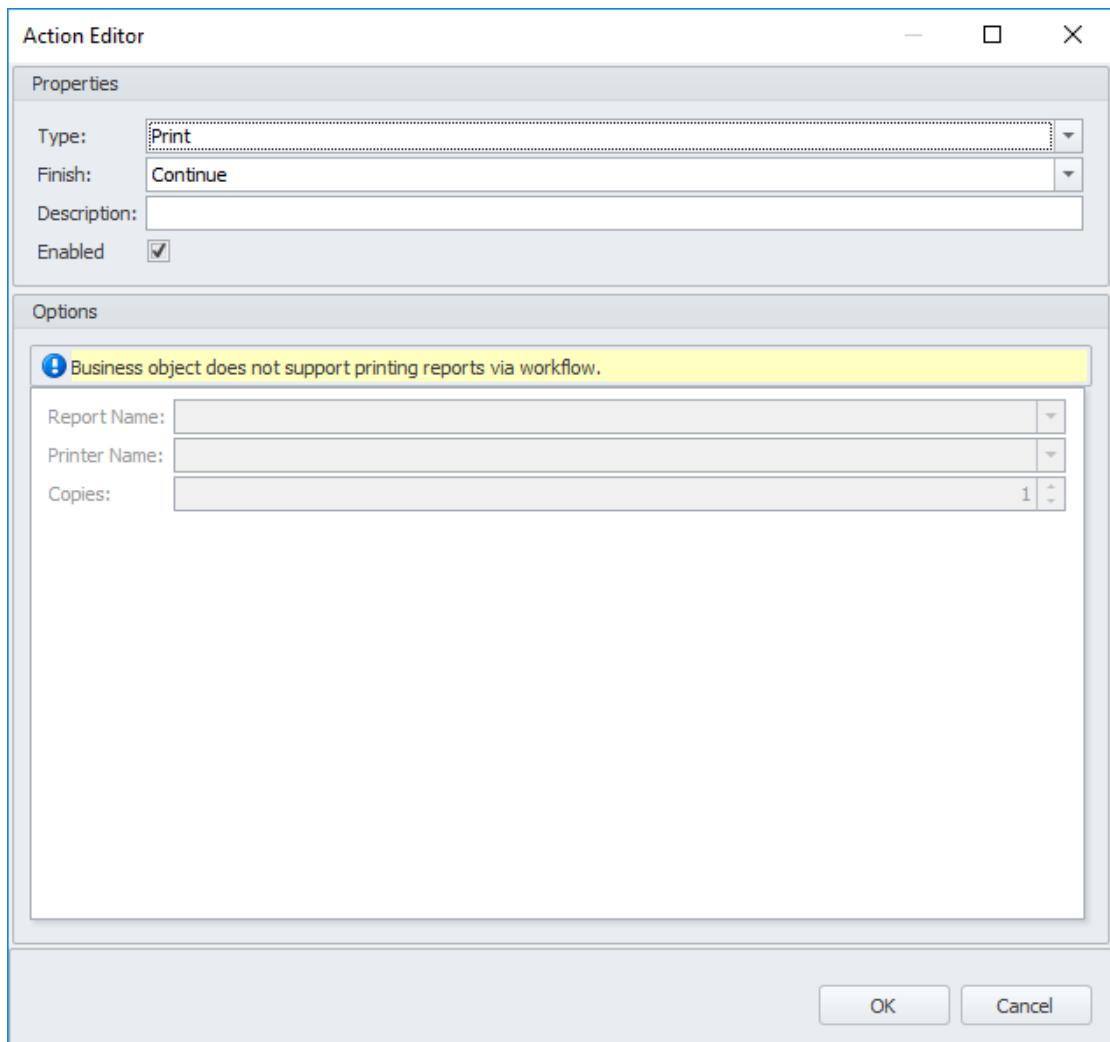


Report Name - Name of the report to be printed.

Printer Name - Name of the printer that will print the report.

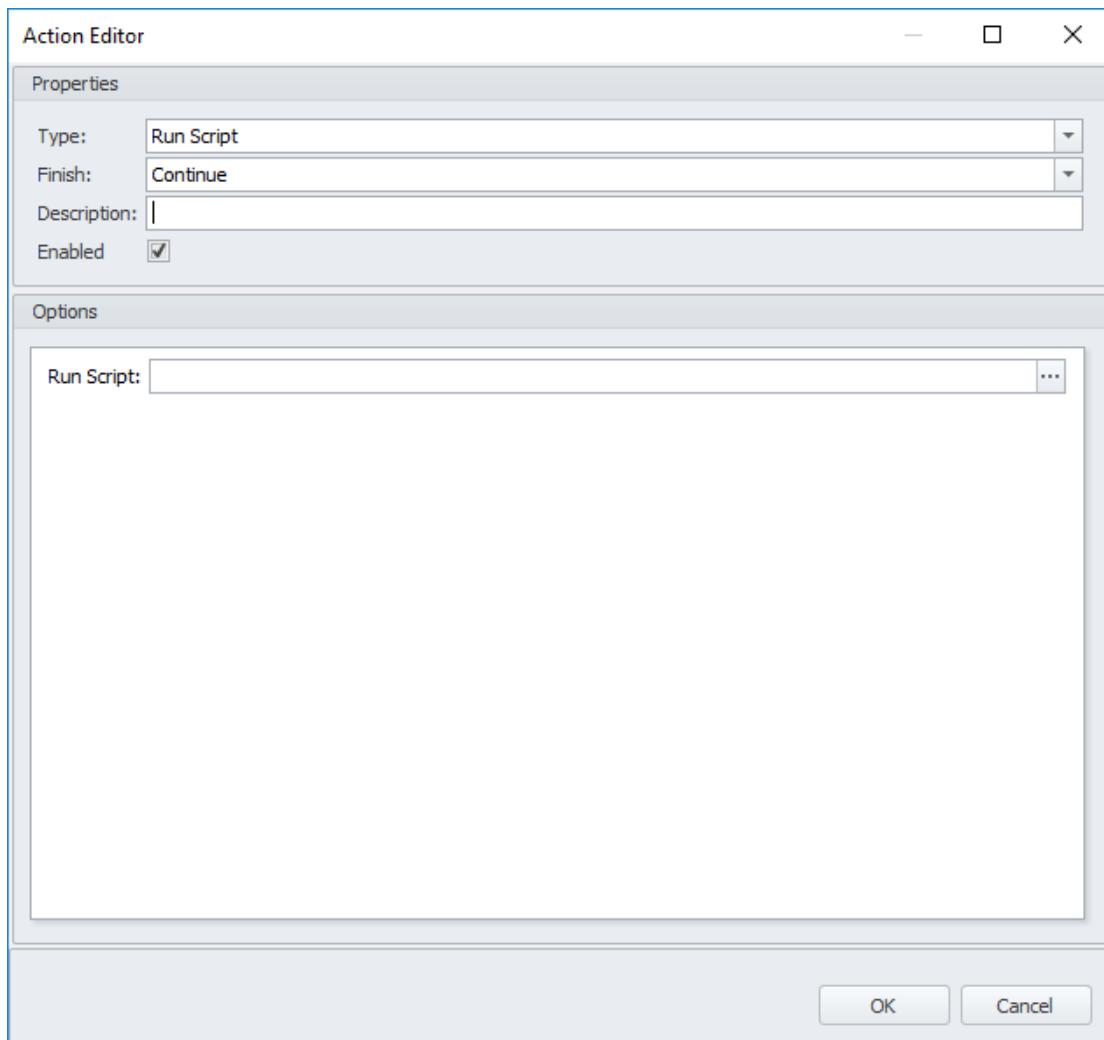
Copies - Number of copies to be printed.

Note: SalesPad will let the user know if the business object does not support printing in workflow.



Run Script

Run script action is used to execute a C# script.

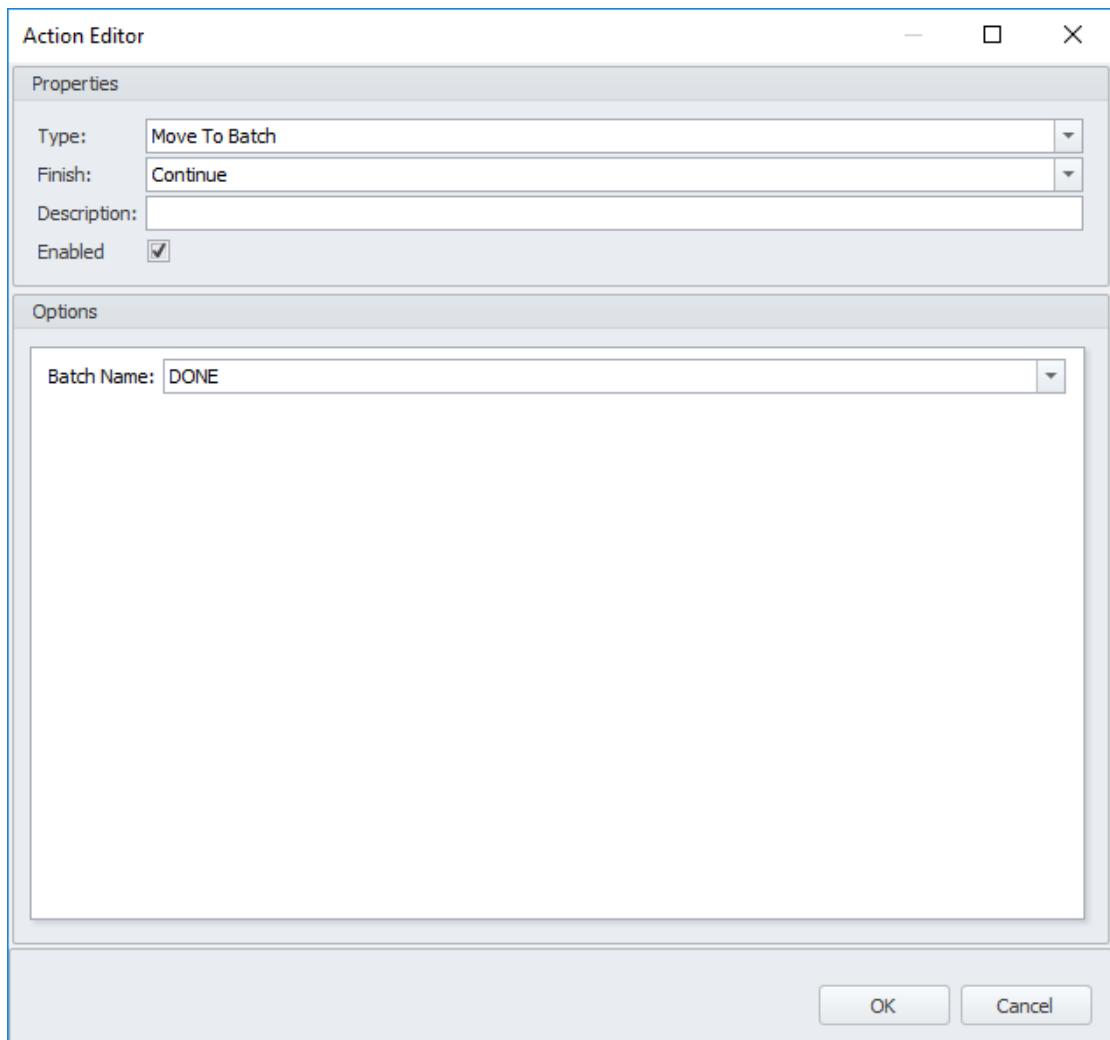


The Run script allows the user to write complex actions in the form of an executable script.

The `businessObject` parameter is the business object that is being forwarded through workflow. Just like the condition script, it will need to be cast to the appropriate business object before it can be used. Please see the [Conditions](#) section for more information.

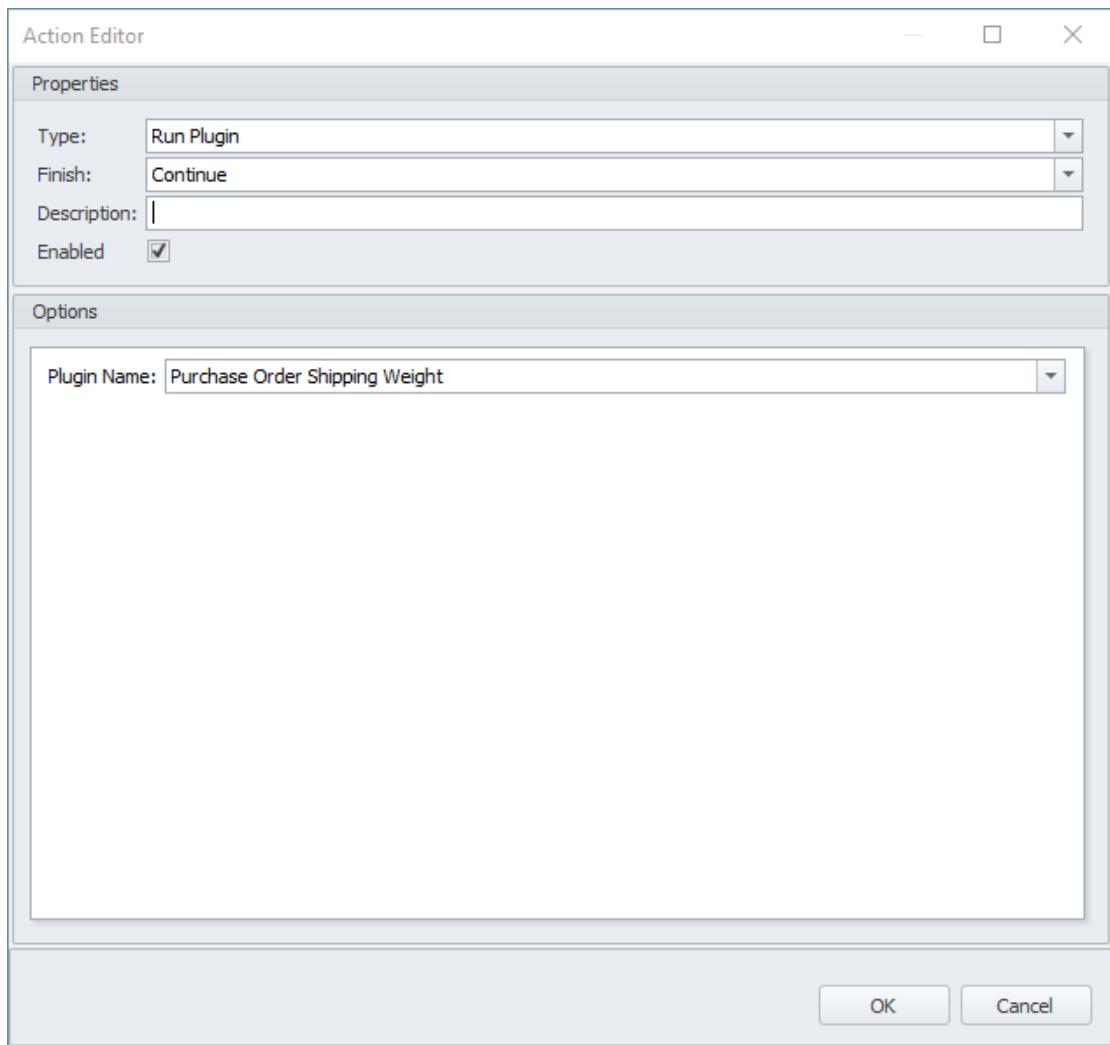
Move To Batch

Move to batch action is used to send the business object to a specific workflow batch.

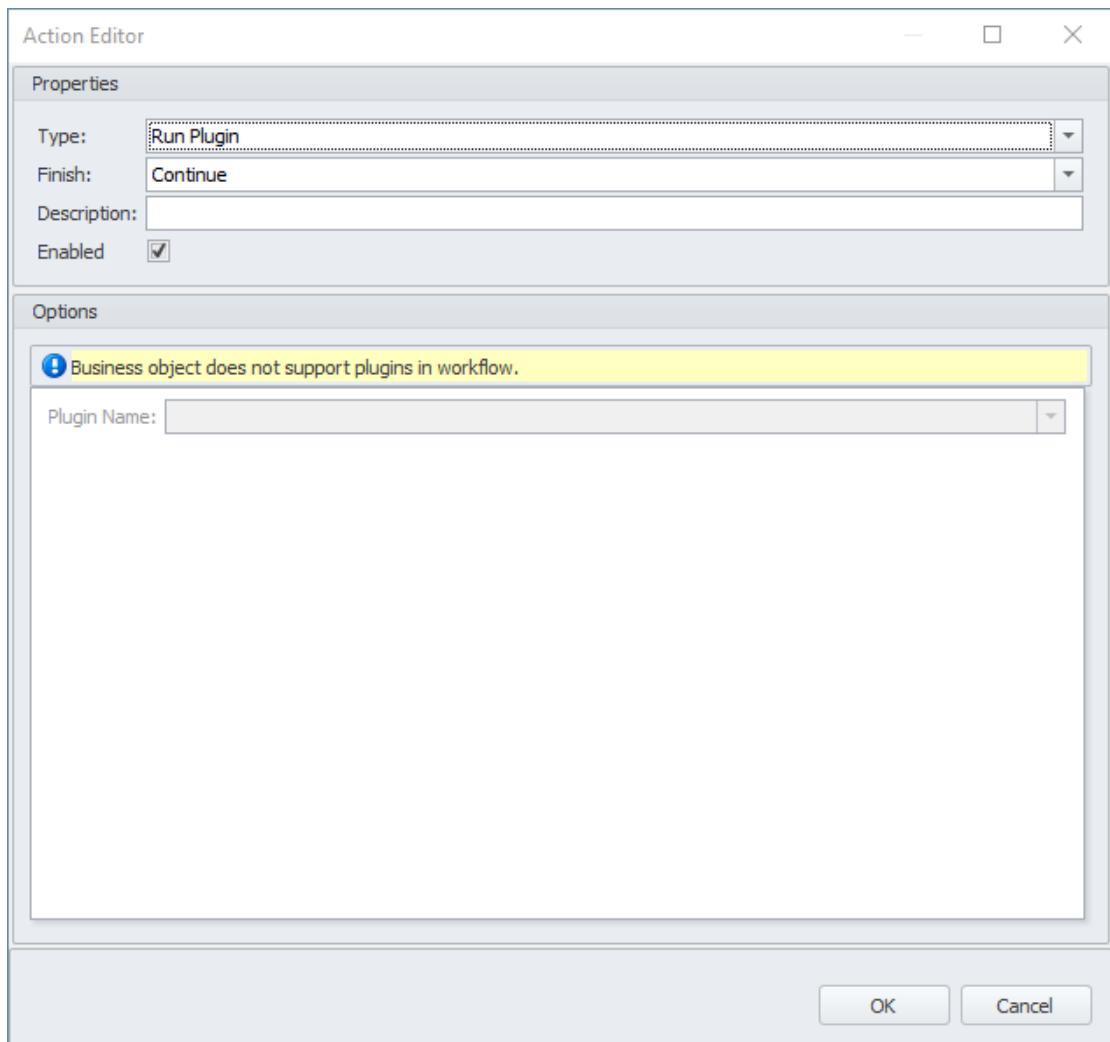


Run Plugin

Run plugin action is used to execute a business object-specific plugin.



Note: SalesPad will let the user know if the business object does not support plugins in workflow.



Workflow Monitor

Workflow Monitor is used to view business object workflows and queues at a glance. It also allows users to forward business objects through workflow or send them to a specific queue.

The screenshot shows the 'Workflow Monitor' screen. The top navigation bar includes 'Close', 'Refresh', 'Expand All', 'Collapse All', 'Refresh Manually', 'Forward', and 'Send To Batch' buttons. Below the navigation bar, there are tabs for 'PurchaseOrder' and 'CaseTrackerCase'. The 'PurchaseOrder' tab is selected, showing a sub-tab for 'Dropship'. The left pane displays a table with columns 'Batch' and 'Count', showing counts for 'Standard' (1 NEW, 1 RECEIVED, 0 DONE) and 'Dropship' (0 NEW, 1 RECEIVED, 0 DONE). The right pane displays a table with columns 'PO Number', 'PO Status', 'Promised Ship Date', and 'Vendor Company'. It shows two batches: 'Batch: NEW' (PO2076, Released, 12/21/2017, Woodgrove Bank) and 'Batch: RECEIVED' (PO0997, New, 4/10/2014, Advanced Office Systems; PO1012, Received, 7/13/2014, ComVex, Inc.).

The Workflow Monitor screen has a tab for each business object, such as PurchaseOrder and CaseTrackerCase. Every business object tab has a sub-tab for each workflow. If business object does not support multiple workflows, sub-tabs will not be shown. For example, CaseTrackerCase business object does not support multiple workflows.

Batch	Count	Case ID	Sales Doc Num	Sales Doc Type	Ship To Addr	Source
Batch: COMPLETE	2	2	ORD1010	ORDER	SHIPPING	Void
Batch: CREATE	1	1	ORD1010	ORDER	SHIPPING	Void
		5	ORD1012	ORDER	SHIPPING	Open
Batch: RESPONSES	1	4	ORD1012	ORDER	SHIPPING	Open

Forwarding

To forward business objects through workflow, select one or more (CTRL + click to multiselect) from the grid on the right and click the **Forward** button. SalesPad will ask the user to confirm the forward action. Clicking Yes will forward the selected business objects through workflow.

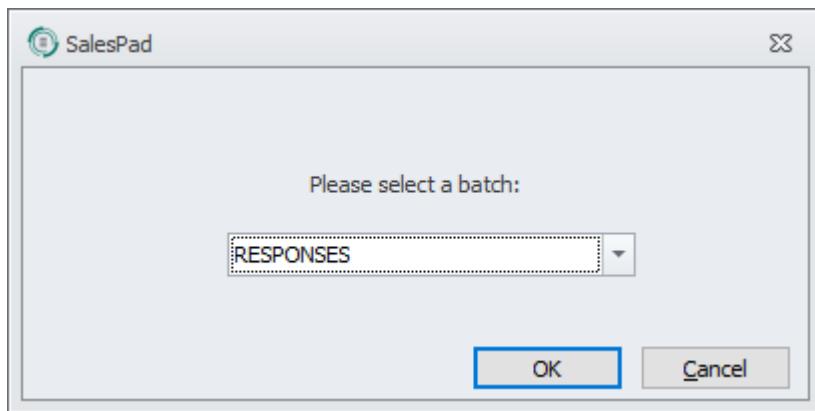
After the forward action is complete, the Summary window is displayed.

Case ID	Message
1	CaseTrackerCase 1 Rule 1 evaluated true. Moved to RESPONSES batch.

Send To Batch

Send to batch is used to send business objects to a queue/batch without actually forwarding them through the workflow. Sending business objects directly to a batch will not trigger workflow rules, conditions, and actions.

To send business objects to a batch, select one or more from the grid on the right and click the **Send To Batch** button. SalesPad will ask the user to select the desired batch. Clicking OK will send the selected business objects to the selected batch.



Note: If multiple business objects are selected from two or more workflows, SalesPad will not be able to send to batch and will inform the user accordingly.

