Microsoft Dynamics® AX 2012 R3

Accounting for stocked items on product receipts and vendor invoices

White Paper

This white paper describes the concepts of the two types of accounting that take place when an accounting entry is generated for a product receipt or a vendor invoice that contains stocked items. The examples in this white paper illustrate the journal entries that are created.

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Table of Contents

3
3
3
4
5
7
7 8
8
8
9
10
11

Overview

The information in this white paper applies to Microsoft Dynamics AX 2012, and information that is specific to Microsoft Dynamics AX 2012 R3 is identified throughout.

This white paper describes the two types of accounting that take place when an accounting entry is generated for a product receipt or a vendor invoice that contains stocked items. Part of the process updates accrued liability or liability accounts, and uses the new accounting framework that was added in AX 2012. The other part of the process updates the inventory cost and uses the same posting process that was available in Microsoft Dynamics AX 2009. In AX 2012 R3, the resulting accounting entries from both processes will be created by using the same subledger entry journal and voucher. Accounting entries that add up to 0 (zero) for **Purchase expenditure, un-invoiced** will not be transferred to the general ledger. Accounting entries that add up to 0 for **Purchase, inventory receipt** will be transferred to the general ledger in a single zero-amount accounting entry. This entry will represent the profit and loss relationship when sales tax is applicable, and therefore will be used in tax specification reports. The examples in this white paper illustrate the journal entries that are created.

Audience

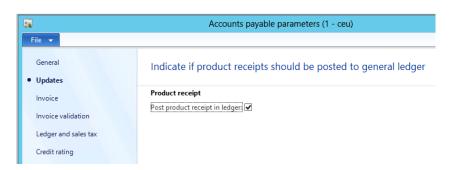
This white paper is intended for end users who work with AX 2012 Inventory management, Procurement and sourcing, Accounts payable, and General ledger, and who want to understand the journal entries created by product receipts and vendor invoices for stocked items.

The functionality described in this white paper is applicable to all countries/regions except Russia, Poland, and India.

Prerequisites

This white paper assumes that the **Post product receipt in ledger** check box is selected in the **Accounts Payable parameters** form, specifying that product receipts should be posted to the general ledger.

To open the **Accounts Payable parameters** form, from the **Accounts payable** area page, click **Setup** > **Accounts payable parameters**, and then click the **Updates** link.



Approach

When a product receipt is posted and accounting entries are created, two accounting processes take place:

1. Accounting entries are created for the accrued liability. The accounting entry amount is for the received quantity of the stocked item, multiplied by the currency amount per unit for the purchase order. This process uses the new accounting framework that was added in AX 2012. In the following example, XX denotes the currency amount of the accounting entry.

Debit Purchase expenditure, un-invoiced XX

Credit Purchase, accrual XX

2. The cost in inventory for the received quantity of the stocked item is accounted for by crediting the expenditure ledger account and capitalizing the cost in an inventory asset ledger account. The accounting entry amount is for the received quantity of the stocked item, multiplied by the cost price per unit.

Debit Product receipt XX

Credit Purchase expenditure, un-invoiced XX

In AX 2012 R3, the results of the accounting entries are combined into one subledger journal entry and voucher.

Accounting entries for, **Purchase expenditure, un-invoiced**, will not be transferred to the general ledger if the amount for both the accounting currency and the reporting currency adds up to 0 (zero) per voucher, currency code, and ledger dimension. Because this is true for the preceding example, the General journal accounting entries would look as follows:

Credit Purchase, accrual XX

Debit Product receipt XX

When a vendor invoice is recorded for a stocked item and accounting entries are created, two accounting processes take place:

1. The accounting entries on the product receipt for accrued liability are reversed. The amount that is reversed is based on the quantity of the stocked item on the vendor invoice that is matched to the product receipt. Then the accounting entry is created to record the liability for the vendor invoice. Both entries are created by using the new accounting framework that was added in AX 2012.

Credit Purchase expenditure, un-invoiced XX (reversal)

Debit Purchase, accrual XX (reversal)

Debit Purchase expenditure for product XX

Credit Vendor balance (Accounts payable) XX

2. The accounting entry on the product receipt that records the inventory cost is reversed. The amount that is reversed is based on the quantity of the stocked item on the vendor invoice that is matched to the product receipt. Additional account entries are created to record the inventory cost under a new inventory ledger account classification.

Credit Product receipt XX (reversal)

Debit Purchase expenditure, un-invoiced XX (reversal)

Debit Purchase, inventory receipt XX

Credit Purchase expenditure for product XX

Note: More complex accounting entries that have other posting types might occur if inventory accounting is used.

There are valid scenarios where a balance for **Purchase expenditure, un-invoiced** and/or **Purchase expenditure for product** is expected for stocked items, for example:

- A stocked item is returned at a different unit price than the average cost and there is a need to expire cost.
- Different currency translation rounding logic is applied in the two accounting processes and can result in a remaining balance.

Accounting entries for **Purchase expenditure, un-invoiced** and **Purchase expenditure for product** will be transferred to the general ledger whenever there is a remaining balance. Because of this, you should consider specifying profit or loss main accounts for **Purchase expenditure, un-invoiced**.

Setup

In AX 2012, two new posting profile main accounts have been added to the **Posting** form for purchase orders. To open this form, click **Inventory and warehouse management** > **Setup** > **Posting** > **Posting**.

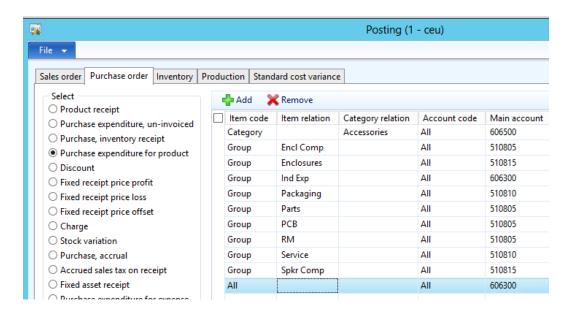
- **Purchase expenditure, un-invoiced** This posting type is used as the offset main account for accrued liability and product receipt amounts when a product receipt is posted. This posting profile main account is used for both stocked and unstocked items, and also for procurement categories if these are set up to accrue liability upon product receipt.
- **Purchase expenditure for product** This posting type is used as the offset main account for the liability and inventory amounts when a vendor invoice is recorded. This posting profile main account is used only for stocked items.

Tip: Main accounts for these two posting types are required. If they are not set up, errors will occur when you attempt to journalize product receipts or vendor invoices.

You should consider specifying different main accounts for **Purchase expenditure, un-invoiced** for unstocked items and procurement categories. Unstocked items and procurement categories will have a balance in this main account until the product receipt is fully invoiced.

The following illustration shows the **Posting** form, where you can specify main accounts for the **Purchase expenditure, un-invoiced** and **Purchase expenditure for product** posting profiles.

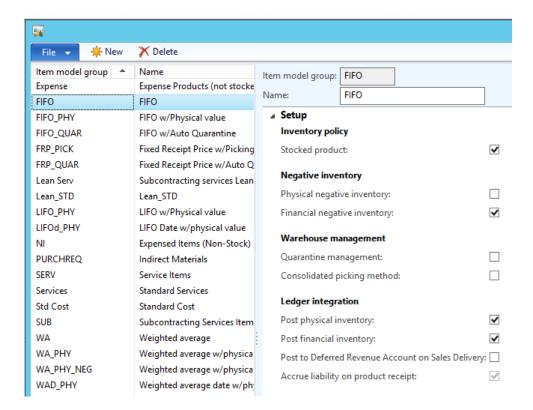
To open the **Posting** form, click **Inventory and warehouse management** > **Setup** > **Posting** > **Posting**, and then click the **Purchase order** tab.



For **Product receipt** and **Purchase, inventory receipt**, you should consider specifying the same conditions and main accounts for both posting types to make reconciliation and analysis easier.

In order to record the inventory cost, you are required to accrue the liability when you record the product receipt and generate the accounting entry. This means that when you define the item model groups for stocked items in the **Item model groups** form, the **Accrue liability on product receipt** check box is automatically selected when the **Post physical inventory** check box is selected, as shown in the following illustration.

To open the **Item model group** form, click **Inventory and warehouse management > Setup > Inventory > Item model groups**.

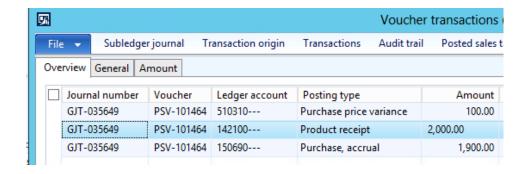


Example: Purchase of stocked item, standard cost

Product receipt

The following illustration shows the vouchers that appear in the **Voucher transactions** form for a stocked item after a product receipt is posted. In this example, the standard cost is USD 100.00, the unit price is USD 95.00, and the quantity is 20.

To open the **Voucher transactions** form, click **Procurement and sourcing > Common > Purchase orders > All purchase orders**, and then click on the **Receive** tab. Select a purchase order, and then, on the **Action Pane**, in the **Journals** group, click **Product receipt**. On the **Overview** tab, select a **Product receipt** journal line, and then click **Vouchers**.



Journal: GJT-035649, Voucher: PSV-101464

510310 Purchase price variance Credit 100

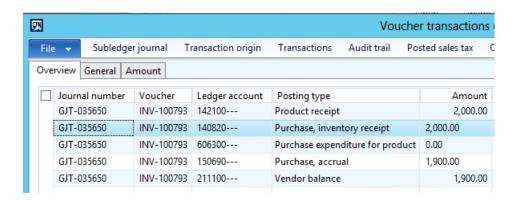
142100 Product receipt Debit 2,000

150690 Purchase, accrual Credit 1,900

Vendor invoice

The following illustration shows the vouchers that appear in the **Voucher transactions** form for a stocked item after the matched vendor invoice is journalized. In this example, the invoiced unit price is the same as the ordered price.

To open the **Voucher transactions** form, click **Procurement and sourcing > Common > Purchase orders > All purchase orders**, and then click the **Invoice** tab. Select a purchase order and then, on the **Action Pane**, in the **History** group, click **Invoice**. On the **Overview** tab, select an invoice journal line, and then click **Voucher**.



Journal: GJT-035650, Voucher: INV-100793

142100 Product receipt Credit 2,000 (reversal)

140820 Purchase, inventory receipt Debit 2,000

606300 Purchase expenditure for product Debit 0

150690 Purchase, accrual Debit 1,900 (reversal)

211100 Vendor balance Credit 1,900

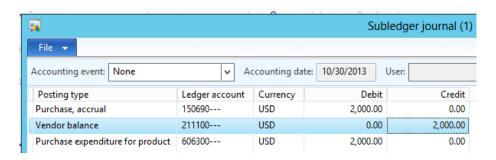
Note: Because the purchase price variance is debited and credited for the same amount, USD 100.00, the account entries are summarized together and are not displayed in the voucher transactions in the preceding example. This is possible because both account entries are within the same journal.

Example: Subledger accounting

Preview subledger accounting in the vendor invoice

The **Subledger journal** form shows a preview, based on the accounting entries that will be created by the new accounting framework that was added in AX 2012. The preview works the same way in AX 2012 R3 as it did in previous versions of AX 2012.

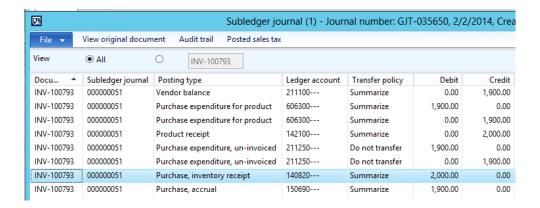
To open the **Subledger journal** form, click **Accounts payable** > **Common** > **Vendor invoices** > **Open vendor invoices**. Select a vendor invoice, and then, on the **Action Pane**, in the **Details** group, click **Vouchers**. Select a journal line, and then click **Subledger journal**.



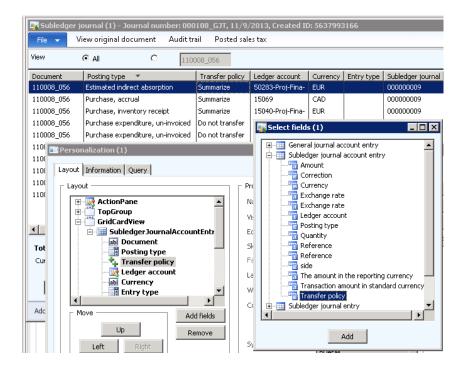
Subledger accounting for posted product receipts and vendor invoices

The following illustration shows how the **Subledger journal** form will display all generated subledger accounting entries, including those that are not transferred to the general ledger. In previous versions of Microsoft Dynamics AX, the **Entry type** field displayed accrual liability for the product receipt and the reversal of it in the vendor invoice, and also liability for the vendor liability. However, in AX 2012 R3, this field is blank, because this value is set for the entire subledger journal entry and now includes the inventory account entries that, in almost all cases, cannot be classified as liabilities.

To open the **Subledger journal** form, click **General ledger** > **Inquiries** > **Voucher transactions**. Add or remove the query criteria, and then click **OK**. Select a journal line, and then click **Subledger journal**.



Note: To view the subledger journal account entries that are not transferred to the general ledger, you can personalize the **Subledger journal** form by adding the **Transfer policy** field, as shown in the following illustration.

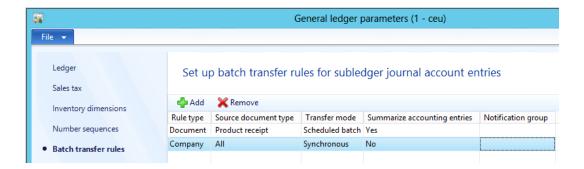


Batch transfer rules - Transfers to the general ledger

The transfer to the general ledger of inventory transactions created for product receipts and vendor invoices is now controlled by batch transfer rules. These transactions can be transferred to the general ledger in any transfer mode and are subject to summarization based on the AX 2012 posting logic.

Note: Voucher transactions will not display any information until the accounting entries for a document are transferred to the general ledger.

To view or set up batch transfer rules for subledger journal account entries, click **General ledger** > **Setup** > **General ledger parameters**, and then click the **Batch transfer rules** link.



Sales tax specification – Reports

Sales tax specification in AX 2012 and Microsoft Dynamics AX 2012 R2 is related to accounting entries for the **Purchase expenditure for expense** posting type that are generated by the new accounting framework. Sales tax specification in AX 2012 R3 is based on the combined accounting entries for the **Purchase expenditure for expense** posting type that, in most cases, will have a 0 (zero) amount. Sales tax information will be listed for these accounting entries. For the reports other than the Sales tax specification by ledger transaction report, you can go to the voucher and then to the subledger journal to view the amounts.

This functionality applies to the following reports:

- Ledger transaction list
 - Click General ledger > Area page > Reports > Transactions > Ledger transaction list. On the General tab, in the Parameters group, select the Sales tax specification check box.
- Dimension statement
 - Click General ledger > Area page > Reports > Transactions > Dimension statement. On the General tab, in the Parameters group, select the Sales tax specification check box.
- Sales tax specification by ledger transaction
 - Click General ledger > Area page > Reports > Transactions > Groupings > Sales tax specification by ledger transaction.

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