

Release Notes 2023 R1

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Introduction

This document provides important information about fixes, enhancements, and key features that are available in Acumatica ERP 2023 R1. The document is designed particularly for those who install Acumatica ERP. All users can benefit from reviewing this content to determine how they may benefit from the changes in this release.

Information fixes, enhancements, and key features for those who customize Acumatica ERP or develop applications for it can be found in the separate [Release Notes for Developers](#) document.

To try new features and improvements, you can use the demo company, which you can easily deploy by selecting the *SalesDemo* item in the Acumatica ERP Configuration Wizard. For detailed information on deploying the demo company and working with the demo data, see [Demo Materials](#) on the Acumatica Portal.

Installation and Upgrade Notes

We strongly recommend that before administrators upgrade Acumatica ERP to a newer product version, they back up all configuration files and databases used by the application instances. For a detailed description of the general procedure of updating Acumatica ERP, see [Updating Acumatica ERP by Using the Configuration Wizard](#) in the Installation Guide.

Multiple changes have been made in Acumatica ERP 2023 R1, in comparison to Version 2022 R2, that may affect customizations and integrations. For details, see [Release Notes for Developers](#).

If the Acumatica ERP instance was integrated with software provided by an independent software vendor (ISV) partner, we recommend that the administrator consult with this partner about the compatibility of its products with Acumatica ERP 2023 R1.

Supported Web Browsers for Acumatica ERP Workstations

Supported web browsers that can be used to work with Acumatica ERP 2023 R1 workstations are listed in the following table.



Web browsers on mobile devices are not supported. We recommend that Acumatica mobile app is used.

Table: Supported web browsers

Web Browser	Version
Microsoft Edge	108 or later
Mozilla Firefox	108 or later
Apple Safari	15 or later
Google Chrome	109 or later

Deprecated Support for Azure Cloud Services

On August 24, 2021, Microsoft announced plans to retire the Cloud Services (classic) deployment model on August 31, 2024. As of April 5, 2021, the new Azure Cloud Services deployment model is generally available.

Starting in 2022 R1, Acumatica is switching to the new deployment model and is no longer providing the following:

- Azure service package files (with the `.cspkg` extension) for each major version and minor updates
- The functionality to generate `.csconfig` files by using the Acumatica ERP Configuration Wizard

Therefore, in Acumatica ERP 2023 R1, an administrator cannot install Acumatica ERP by using the Azure Cloud Services (classic) deployment model.

To deploy the Acumatica ERP Service for 2023 R1 and later on the Windows Azure platform by using Azure Cloud Services (extended support), the administrator should create a Windows virtual machine in the Azure portal and install Acumatica ERP, as described in the [Installing Acumatica ERP Locally](#) topic.

Upgrade Policy

On the [Apply Updates](#) (SM203510) form, only minor updates are available for the currently installed version of Acumatica ERP. The administrator should upgrade the Acumatica ERP instance from previous major versions of the

system to Version 2023 R1 manually on the server. (An upgrade through the web interface is not supported because the customization of the Acumatica ERP instance may be incompatible with Version 2023 R1 due to changes in Version 2023 R1.)

Prerequisite Steps

Before administrators install Acumatica ERP 2023 R1 or upgrade to it locally, they need to do the following:

1. Switch the Internet Information Services application pool where the Acumatica ERP 2023 R1 instance will be installed to Integrated mode. (Classic mode is not supported.)
2. Install Microsoft .NET Framework 4.8 on the server where the Acumatica ERP 2023 R1 instance will be installed.
3. Install Microsoft .NET Core 3.1 on the server where the Acumatica ERP 2023 R1 instance will be installed.

Upgrade Path

The upgrade to Acumatica ERP 2023 R1 must be performed as described in the following table. The upgrade process depends on the version before the upgrade.

Table: Upgrade Paths for Acumatica ERP

From Version	Upgrade Path
2022 R2	A direct upgrade to Acumatica ERP 2023 R1 is supported.
2022 R1	A direct upgrade to Acumatica ERP 2023 R1 is supported.
2021 R2	A direct upgrade to Acumatica ERP 2023 R1 is supported.
2021 R1	An incremental upgrade is required. The following steps must be performed in the listed order: <ol style="list-style-type: none"> 1. Upgrade to the latest Version 2022 R2 X build available. 2. Upgrade to Version 2023 R1.
2020 R2	An incremental upgrade is required. The following steps must be performed in the listed order: <ol style="list-style-type: none"> 1. Upgrade to the latest Version 2022 R1 X build available. 2. Upgrade to Version 2023 R1.

Acumatica ERP 2023 R1 can be upgraded from the following particular versions:

- 2022 R2 Update 5 (22.205.0026) and earlier
- 2022 R1 Update 15 (22.115.0035) and earlier
- 2021 R2 Update 19 (21.219.0019) and earlier

For the list of upgradable versions for later 2023 R1 updates, see the Release Notes for the particular 2023 R1 update.

Actions Before the Upgrade

Before performing the upgrade to Acumatica ERP 2023 R1, an administrator should perform the actions described in the following sections.

Finance

If the *General Ledger Consolidation* feature is enabled and in use in the system, an administrator must make sure that an upgrade to 2023 R1 is planned for both the tenant with the parent company and each tenant with a subsidiary company.

If only the parent company or only the subsidiary company is upgraded to Acumatica ERP 2023 R1, users will not be able to perform consolidation. This is because in the previous versions of Acumatica ERP, the consolidation process used the SOAP protocol, and in 2023 R1, the consolidation process has been reimplemented by using the REST technology. For details, see [Finance: GL Consolidation by Company](#).

Inventory and Order Management

On the **Template** tab of the [Order Types](#) (SO201000) form, changes have been made to orders whose type has active *Receipt* and *Issue* operations and *RMA Order* or *Invoice* automation behavior.

For such orders, the administrator should do the following:

- Make sure that any sales orders that had been previously exported to an Excel file have been imported to the [Sales Orders](#) (SO301000) form before the upgrade.
- On the [Import by Scenario](#) (SM206036) form, make sure that any needed sales orders have been imported.



We highly recommend that these orders be imported before the upgrade to Acumatica ERP 2023 R1. Before the system upgrade, all stock and non-stock quantities (the **Require Receipt** and **Require Shipment** check boxes selected on the [Non-Stock Items](#) (IN202000) form) in orders on the [Sales Orders](#) form could be only positive. If such an order is imported after the system upgrade, the order balance may be changed because all the lines will be imported with positive quantities. The default order type operation will be selected for all sales order lines automatically, despite some lines could have another operation type.

For details, see [Inventory and Order Management: Negative Quantity in Orders Whose Type Has Active Receipt and Issue Operations](#).

Post-Upgrade Changes and Actions

An administrator should be aware of the changes that have been made in the system after the upgrade to Acumatica ERP 2023 R1 has been performed. The following sections describe these changes, as well as any actions that the administrator needs to take.

Finance

If a payment method has the **Create Batch Payments** option button selected on the **Settings for Use in AP** tab of the [Payment Methods](#) (CA204000) form, the **Quick Batch Generation** check box now appears on the tab. This check box is cleared by default. For more information, see [Finance: Generation of Batches on the Prepare Payments Form](#).

If the *General Ledger Consolidation* feature is enabled on the [Enable/Disable Features](#) (CS100000) form, after an upgrade to Acumatica ERP 2023 R1, access rights have been changed to several forms. On the [Access Rights by](#)

Screen (SM201020) form, all users are now assigned the *Not Set* access rights to the following forms in the **Hidden** node:

- *Consolidation Accounts (GL103001)*
- *Consolidation Branches (GL103002)*
- *Consolidation Ledgers (GL103003)*
- *Consolidation Companies (GL103004)*
- *Consolidation Data (GL509001)*



If only the parent company or only the subsidiary company (consolidation unit) has been upgraded to Acumatica ERP 2023 R1, users will not be able to perform consolidation. This is because in the previous versions of Acumatica ERP, the consolidation process used the SOAP protocol, and in 2023 R1, the consolidation process has been reimplemented by using the REST protocol.

If any access rights have been changed after the upgrade, the administrative user should make sure that the user that will sign in to the source tenant has the *Delete* access rights to all of these hidden forms. This user is the one specified in the **Username** column in the table of the **Consolidation** (GL103000) form. For details, see [Finance: GL Consolidation by Company](#).

During the upgrade, the system checks whether an export scenario was previously selected in the **Export Method** box of the **Settings for Use in AP** tab for a payment method on the **Payment Methods** (CA204000) form. If that was the case, the **Export Method** box will have the *Export Scenario* option inserted after the upgrade. For details, see [Finance: Redesign of the ACH Plug-In](#).

During the upgrade, the upgrade script has updated the settings of existing direct-entry taxes on the **Taxes** (TX205000) form, which are taxes that have the **Direct-Entry Tax** check box selected. These taxes now have the following settings:

- **Calculation Rule:** *Inclusive Line-Level*
- **Cash Discount:** *Does Not Affect Taxable Amount*
- **Exclude from Tax-on-Tax Calculation:** Selected
- **Partially Deductible VAT:** Cleared
- **Reverse VAT:** Cleared
- **Deductible Tax Rate:** 100

Additionally, the script has removed a direct-entry tax from a tax category if this was the only direct-entry tax available for the combination of a tax category (with the **Exclude Listed Taxes** check box cleared) and a tax zone. This change prevents unexpected automatic application of the direct-entry tax on the **Bills and Adjustments** (AP301000), **Cash Purchases** (AP304000), and **Landed Costs** (PO303000) forms. For details, see [Finance: Tax Bills with Direct-Entry Taxes and Taxable Lines](#).

After the upgrade, if a document line has an invalid tax configuration, the system will apply only the regular taxes if the tax category selected for the line contains both regular and direct-entry taxes, and will apply no direct-entry taxes if the tax category contains multiple direct-entry taxes. If a taxable document is created after the upgrade or if a document was created before the upgrade and edited after the upgrade, the system will display warning messages as follows:

- If the tax category contains regular and direct-entry taxes, the system will display a warning indicating that the regular and direct-entry taxes cannot be applied to the same document line.
- If the tax category contains multiple direct-entry taxes, the system will display a warning indicating that multiple direct-entry taxes cannot be applied to the same document line.

If your organization uses import scenarios, the system administrator should be aware that import scenarios that modify the state of the **Active** check box on the **Companies** (CS101500) form no longer work in Acumatica ERP 2023 R1. This is because the system prohibits any changes of the *IsActive* field for an import scenario using the **Companies** screen on the **Import Scenarios** (SM206025) form or on the UI. This change has been made to prevent the activation of a company for which missing periods have not been generated.

For these import scenarios, the system administrator should use *<Action: Activate>* or *<Action: Deactivate>* in the **Field/Action Name** column on the **Mapping** tab of the [Import Scenarios](#) form. For details, see [Finance: Generation of Financial Periods on Company Activation](#).

Integration

On the [Tax Zones](#) (TX206000) form, *Sales Taxes* has been inserted in the **Calculate in AP** box for all existing tax zones. For details, see [Integrations: Improved Processing of Use Taxes Calculated by Avalara](#).

Inventory and Order Management

The system has performed checks on each sales order whose sales order type had the *RMA Order* or *Invoice* automation behavior and both the *Issue* operation and the *Receipt* operation listed and active on the **Templates** tab of the [Order Types](#) (SO201000) form. For the sales order, if the **Operation** value of a line on the **Details** tab of the [Sales Orders](#) (SO301000) form differed from the **Default Operation** value of the specified order type on the [Order Types](#) form, the following values have been changed from positive to negative:

- For a stock item, the **Quantity**, **Qty. on Shipments**, **Open Qty.**, **Ext. Price**, **Discount Amount**, **Amount**, and **Unbilled Amount** values.
- For a non-stock item for which the **Require Shipment** check box was selected on the [Non-Stock Items](#) (IN202000) form, the **Quantity**, **Qty. on Shipments**, **Open Qty.**, **Ext. Price**, **Discount Amount**, **Amount**, and **Unbilled Amount** values.

Also, during the upgrade, in sales order lines for non-stock items for which the **Require Shipment** check box was cleared on the [Non-Stock Items](#) form, the system has changed the **Operation** value to the non-default value, defined for the order type on the [Order Types](#) form if the line quantity was negative.

In existing sales orders, on the **Commissions** tab, the amount in the **Commissionable Amount** column has been decreased by the amount of sales order lines that had the *Receipt* operation and that were subject to commission (that is, the **Commissionable** check box is selected).

For details, see [Inventory and Order Management: Negative Quantity in Orders Whose Type Has Active Receipt and Issue Operations](#).

Localization

If the *Canadian Localization* feature is enabled, for all existing companies that have *Canada* selected in the **Localization** box on the [Companies](#) (CS101500) form, the *Fiscal Year* option has been inserted in the **Year Type** box on the **Canadian Tax Reporting** tab of the [Companies](#) form. For details, see [Localization: Canadian T5018 History and Validation Report](#).

Projects and Construction

After the upgrade, an administrator should run the recalculation of project balances on the [Recalculate Project Balances](#) (PM504000) form to update the project actual values that are shown in the project WIP reports. For more details, see [Acumatica Community](#).

The system has added a new line in the `JointPayee` database table for the main vendor of each existing AP bill that has the **Joint Payees** check box selected in the Summary area of the [Bills and Adjustments](#) (AP301000) form. For more information, see [Projects and Construction: Enhanced Joint Payment Functionality](#).

Manufacturing

The following forms of Acumatica ERP Manufacturing Edition have been modified to support the new automation workflow:

- [Production Order Maintenance](#) (AM201500)

- [Production Order Details](#) (AM209000)

If the company uses automation steps, import scenarios, or export scenarios for these forms, an administrator should read the **Automation Changes** section of the [Manufacturing: New Workflow Support on the Production Order Maintenance and Production Order Details Forms](#) topic. Changes may need to be made to the workflow, import scenarios, or export scenarios for these forms.

Commerce

If the company synchronizes the *Customer Price Class* and *Price List* entities with a BigCommerce store, an administrator should enable the *B2B Entities* feature on the [Enable/Disable Features](#) (CS100000) form. These entities are no longer available under the *BigCommerce Connector* feature. For more information, see [Commerce: New Feature for B2B Scenarios](#).

CRM

For all existing records on the [Event](#) (CR306030), [Task](#) (CR306020), [Email Activity](#) (CR306015), and [Activity](#) (CR306010) forms, the system has copied the values of the boxes in the now-deprecated **Related Entity** dialog box to the **Details** tab of the form as follows:

- From the **Type** box of the dialog box to the **Related Entity Type** box of the tab
- From the **Entity** box of the dialog box to the **Related Entity** box of the tab

Also, only custom filters based on the following columns have been migrated from the obsolete *Tasks (EP404000)* form to the *Tasks (EP4040PL)* list of records:

- **Summary**
- **Status**
- **Start Date**
- **Due Date**
- **Owner**
- **Category**
- **Created By**
- **Workgroup**

Commerce: Predefined Import Scenarios for Importing Template Items and Matrix Items

In Acumatica ERP 2023 R1, new predefined import scenarios have been implemented to simplify the migration of template items and matrix items (that is, products with variants) from third-party software to Acumatica ERP.

Overview of the New Import Scenarios

The following predefined import scenarios have been added to the [Import Scenarios](#) (SM206025) and [Import by Scenario](#) (SM206036) forms:

- *Import Template Items*: To import template items to the [Template Items](#) (IN203000) form
- *Import Matrix Items*: To import matrix items to the [Stock Items](#) (IN202500) form

For each of these scenarios, a corresponding data provider with the same name has been added on the [Data Providers](#) (SM206015) form.

Data Templates

For each of the predefined import scenarios, a data template is provided. The user performing the import can download the template, populate it with the data to be migrated to Acumatica ERP, and then use the prepared file on the [Import by Scenario](#) (SM206036) form with the corresponding import scenario.

To download the data template, the user does the following::

1. Opens the [Import Scenarios](#) (SM206025) or [Import by Scenario](#) form.
2. In the **Name** box of the Summary area, selects the import scenario for which the user wants to download the template.
3. In the title bar, clicks **Files**.
4. In the **Files** dialog box, clicks the template file. In the **Save As** dialog box, which opens, the user selects the folder where the template should be saved.

In the data template file, the columns that are required for successful data import are highlighted in red, and the optional columns are blue. (See the following screenshot.)

Inventory ID	Description	Item Class	Attribute 1 Name	Attribute 1 Value	Template ID
TE1-B		ALLOTHER	COLORPANT	B	AATEMPLATE
TE1-R		ALLOTHER	COLORPANT	R	AATEMPLATE
TE1-Y		ALLOTHER	COLORPANT	Y	AATEMPLATE

Figure: The data template file for the import of matrix items

Commerce: Import of Refunds for Partially Shipped Orders from Shopify

In previous versions of Acumatica ERP, it was not possible to import a refund from an external system for a sales order that had any status other than *Completed*, *Open*, or *On Hold*. As a result, users had to manually process refunds and returns for partially shipped orders. This included manually creating a return order, a refund, or both documents in Acumatica ERP and excluding the refund record from synchronization to prevent the system from importing the same refund from Shopify. The process was complicated and could result in duplicate refunds being created in Acumatica ERP.

In Acumatica ERP 2023 R1, the import of refunds for partially shipped orders from Shopify is supported. Now when such a refund is imported to Acumatica ERP, the retail-commerce connector processes it as follows:

- For shipped items: Creates a return order on the [Sales Orders](#) (SO301000) form and a refund on the [Payments and Applications](#) (AR302000) form, and applies the refund to the return order.
- For not-yet-shipped items: Adjusts the item quantity in the original sales order on the [Sales Orders](#) form, creates a refund on the [Payments and Applications](#) form, and applies the refund to the original payment.



To avoid issues with the import of refunds, when users issue returns for a partially shipped order in a Shopify store, they should make sure that the **Restock item** check box (shown in the following screenshot) is selected.

Restock

Return items before issuing refunds
If you want to track shipping and automatically restock returned items, return items before issuing a refund. You can't return an item if it's already been refunded.
[Return items](#) [Learn more](#)

Unfulfilled 2330 Hoffman Avenue

Item	Quantity	Price
Apple jam 32 oz APJAM32 \$16.60	1 / 2	\$16.60

Refunded items will be removed from the order.

☒ Restock item

Fulfilled

Item	Quantity	Price
Apple jam 32 oz APJAM32 \$16.60	1 / 3	\$16.60

☒ Restock item at: 2330 Hoffman Avenue

Summary

Items subtotal	\$33.20
2 items	
Tax	\$3.40
Refund total	\$0.00

AUTHORIZED AMOUNT

Shopify Payments
(•••• 4242)
\$54.91 not captured yet.

☒ Send a [notification](#) to the customer

Restock items

Figure: The Restock item check box on the Restock page

Commerce: Mapping of Shopify Locations to Acumatica ERP Warehouses

In previous versions of Acumatica ERP, it was possible to map locations created in Shopify to specific warehouses and warehouse locations in Acumatica ERP only for Shopify POS orders. Starting in Acumatica ERP 2023 R1, this functionality has been extended to Shopify web orders (that is, orders placed in a Shopify online store).

An implementation manager can specify the mapping in the **Warehouse Mapping for Order Import** table on the **Order Settings** tab of the [Shopify Stores](#) (BC201010) form (shown in the following screenshot).

Shopify Stores
Shopify SweetStore - SP

Connector: Shopify ☒ Active
* Store Name: SweetStore - SP ☐ Default

CONNECTION SETTINGS ENTITY SETTINGS CUSTOMER SETTINGS INVENTORY SETTINGS **ORDER SETTINGS** PAYMENT SETTINGS SHIPPING SETTINGS

GENERAL

* Branch: RETAIL - SweetLife Store

ORDER

* Order Type for Import: EO - eCommerce Order
Order Types for Export: SA - Sales Order with Alloc...
Return Order Type: ER - eCommerce Return Ord...
* Refund Amount Item: REFUNDAMT - eCommerce I...
Refund Reason Code:
Order Time Zone: (GMT-05:00) Eastern Time ...
Show Discounts As: Line Discounts
☒ Import Order Risks
Hold on Risk Status: High Risk
Gift Certificate Item: GIFTCERT - Gift Certificate
Earliest Order Date:
☐ Tag Ext. Order with ERP Order Nbr.
☐ Allow Adding Items to Processed Orders

WAREHOUSE MAPPING FOR ORDER IMPORT

* Shopify Location	* Warehouse	Location ID
2330 Hoffman Aven...	RETAIL	MAIN
> WH1	WHOLESALE	L1R1S1

Figure: The Warehouse Mapping for Order Import table

When an order is imported, the system assigns the mapped location to each order line on the [Sales Orders](#) (SO301000) form. If the warehouses and locations are not specified, the system uses the default warehouse and location specified in the settings of the item on the [Stock Items](#) (IN202500) form.

Commerce: New Feature for B2B Scenarios

In previous versions of Acumatica ERP, the synchronization of all entities with a BigCommerce store could be set up if the *BigCommerce Connector* feature was enabled on the [Enable/Disable Features](#) (CS100000) form. Entities that are typically required only for business-to-business (B2B) companies were visible to business-to-consumer (B2C) businesses, which could cause confusion.

Starting in Acumatica ERP 2023 R1, entities that are relevant only for B2B scenarios are available only if the *B2B Entities* feature is enabled on the [Enable/Disable Features](#) form. This new feature can be enabled only if the *BigCommerce Connector*, *Shopify Connector*, or *Shopify and Shopify POS Connector* feature is enabled. If none of the prerequisite features is enabled, the system displays an error message (which is shown in the following screenshot).

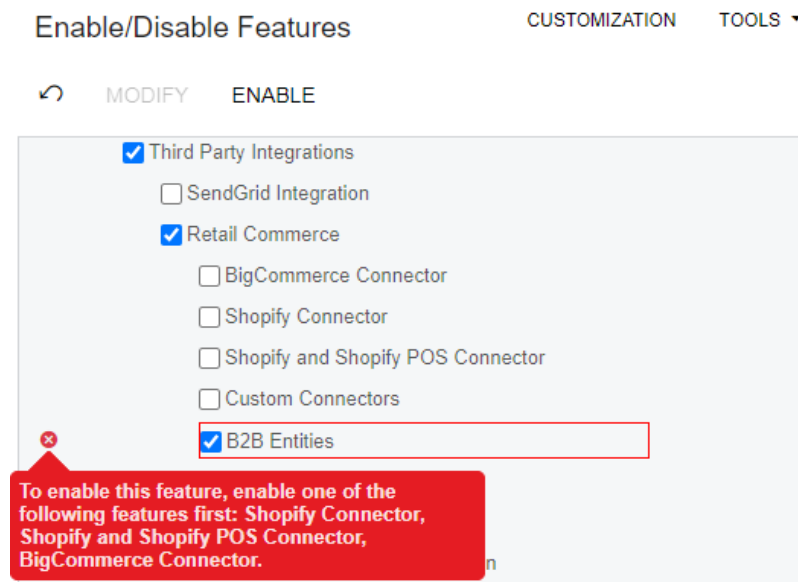


Figure: The B2B Entities feature on the Enable/Disable Features form

BigCommerce Entities

If the *BigCommerce Connector* feature is enabled on the [Enable/Disable Features](#) (CS100000) form, the following entities can be activated on the **Entity Settings** tab of the [BigCommerce Stores](#) (BC201000) form:

- Customer
- Customer Location
- Sales Category
- Stock Item
- Non-Stock Item
- Template Item
- Base Sales Price
- Product Image
- Product Availability
- Sales Order
- Payment
- Shipment
- Refund

When the *B2B Entities* feature is enabled, the *Customer Price Class* and *Price List* entities also become available.

Shopify Entities

Currently, the synchronization of all entities with a Shopify store can be set up if the *Shopify Connector* or *Shopify and Shopify POS Connector* feature is enabled on the [Enable/Disable Features](#) (CS100000) form. However, in future versions of Acumatica ERP, entities specific to B2B scenarios will be added as part of the *B2B Entities* feature.

Other Changes to Forms

On the [Enable/Disable Features](#) (CS100000) form, the *Commerce Integration* group of features has been renamed to *Retail Commerce*. (See the following screenshot.)

The screenshot displays the 'Enable/Disable Features' form. At the top, there are tabs for 'CUSTOMIZATION' and 'TOOLS'. Below the tabs, there are buttons for 'MODIFY' and 'ENABLE'. The main content area is a list of features with checkboxes. The 'Retail Commerce' checkbox is highlighted with a red rectangle. The features listed are:

- ☒ Third Party Integrations
 - ☐ SendGrid Integration
 - ☒ Retail Commerce
 - ☒ BigCommerce Connector
 - ☒ Shopify Connector
 - ☐ Shopify and Shopify POS Connector
 - ☐ Custom Connectors
 - ☒ B2B Entities
- ☐ Bank Feed Integration
- ☒ Integrated Card Processing

Figure: The renamed *Retail Commerce* group of features

Commerce: Support of BigCommerce Metafields in Order Import

BigCommerce customers can create custom fields in their stores to hold additional information, such as extra details about products, sales orders, and customers. Starting in Acumatica ERP 2023 R1, users can set up the system to import values stored in metafields of BigCommerce orders into Acumatica ERP.

Using BigCommerce Metafields in Field Mapping

Users of Acumatica ERP Retail Edition can map order metafields created in BigCommerce to sales order fields in Acumatica ERP. This mapping is defined on the [Entities](#) (BC202000) form.

Metafields have several properties, including the following:

- **Namespace:** A category or container that groups some metafields and distinguishes them from other metafields
- **Key:** The name of the metafield; it is used to reference the information stored in the metafield
- **Value:** The content of the metafield

When a user is configuring an import mapping for the *Sales Order* entity, to map a BigCommerce metafield with an Acumatica ERP field, they need to select the metafield object in the **External Object** column and type the metafield name in the **External Field / Value** column in the following format: `Namespace . Key`.

The following screenshot illustrates a mapping of a metafield created in BigCommerce that has the *Handling* namespace and *Notes* key to the *Note* field of a sales order in Acumatica ERP. The information that a customer adds to this metafield when placing an order in BigCommerce will be imported along with the sales order and attached to the sales order as a note on the [Sales Orders](#) (SO301000) form.

Entities

← 📄 ↺ START REAL-TIME SYNC ...

Connector:	BigCommerce	Sync Direction:	Import	Real-Time Import:	Stopped
Store:	SweetStore - BC	Primary System:	External System	Real-Time Export:	Stopped
Entity:	Sales Order	Max. Number of Failed Attempts:	5	Real-Time Mode:	Prepare
<input checked="" type="checkbox"/> Active		Real-Time Webhook URL:			

IMPORT MAPPING | IMPORT FILTERING | EXPORT MAPPING | EXPORT FILTERING

🔄 + × | 📄 | 📄 | 📄

	* ERP Object	* ERP Field	* External Object	* External Field / Value
> 📄 <input checked="" type="checkbox"/>	Sales Order	Note	Order Data -> Metafields	=[Handling.Notes]

Figure: Use of a BigCommerce order metafield in a mapping

Commerce: Other Improvements

In Acumatica ERP 2023 R1, multiple improvements to commerce-related functionality have been introduced, as described below.

Renamed Columns on the Entities Form

On the [Entities](#) (BC202000) form, users could experience difficulty when setting up field mapping between Acumatica ERP and an external system because the columns on the **Export Mapping** and **Import Mapping** tabs had the same names but displayed objects and fields that belong to different systems. To make the purpose of the columns more obvious to users, the column names have been updated as follows:

- On the **Export Mapping** tab:
 - **Target Object** to **External Object**
 - **Target Field** to **External Field**
 - **Source Object** to **ERP Object**
 - **Source Field / Value** to **ERP Field / Value**
- On the **Import Mapping** tab:
 - **Target Object** to **ERP Object**
 - **Target Field** to **ERP Field**
 - **Source Object** to **External Object**
 - **Source Field / Value** to **External Field / Value**

Deletion of Product Images in an External System

In previous versions of Acumatica ERP, if a user exported product images listed in the **Media URLs** table on the **eCommerce** tab of the [Stock Items](#) (IN202500), [Non-Stock Items](#) (IN202000), or [Template Items](#) (IN203000) form to an external system, deleted or replaced the URL of the image in this table, and then synchronized the item, the image in the external system was still available. To work around this issue, the user had to manually delete the image on the product management page in the external system.

In Acumatica ERP 2023 R1, this issue has been addressed. During the synchronization of an item, the retail-commerce connector checks the list of media URLs that were attached to the product in the external system after the previous synchronization. If it finds an image URL that has been synchronized in the past but no longer exists in the media URL list, it deletes the image in the external system.

Data Preparation on the Sync History Form

In previous versions of Acumatica ERP, the synchronization process was performed in two stages. The first stage (preparation of entity data for synchronization) was performed on the [Prepare Data](#) (BC501000) form, and the second step (processing of the prepared entity data) could be performed on the [Process Data](#) (BC501500) form and on the [Sync History](#) (BC301000) form.

Starting in Acumatica ERP 2023 R1, a user can start both data preparation and data processing on the [Sync History](#) form.

To start the data preparation, a user needs to select the e-commerce store and the entity that needs to be prepared and then invoke the new **Prepare** command, which has been added to the More menu (see the following screenshot).

On the **Payment Settings** tab of the [BigCommerce Stores](#) and [Shopify Stores](#) forms, a user can click the link in any of the following columns (which are shown in the following screenshot) to open the noted record in a pop-up window:

- **ERP Payment Method** to open the payment method on the [Payment Methods](#) (CA204000) form
- **Cash Account** to open the cash account on the [Cash Accounts](#) (CA202000) form
- **Proc. Center ID** to open the processing center on the [Processing Centers](#) (CA205000) forms

BigCommerce Stores
BigCommerce SweetStore - BC

Connector: BigCommerce ☒ Active
* Store Name: SweetStore - BC ☒ Default

CONNECTION SETTINGS ENTITY SETTINGS CUSTOMER SETTINGS INVENTORY SETTINGS ORDER SETTINGS **PAYMENT SETTINGS** SHIPPING SETTINGS

Active	* Store Payment Method	* Store Currency	ERP Payment Method	Cash Account	Proc. Center ID	Release Payments	Process Refunds
<input checked="" type="checkbox"/>	AUTHORIZENET (CREDIT_...	USD	ALLCARDS	10250ST	AUTHCOMM	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	CUSTOM (CUSTOM)	USD	MANUAL	10250ST		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	AMAZON	USD				<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	BRAINTREE	USD				<input type="checkbox"/>	<input type="checkbox"/>

Figure: Links on the Payment Settings tab

Similarly, on the **Shipping Settings** tab of the [BigCommerce Stores](#) and [Shopify Stores](#) forms, a user can click the link in any of the following columns (which are shown in the following screenshot) to open the noted record in a pop-up window:

- **Ship Via** to open the Ship Via code on the [Ship via Codes](#) (CS207500) form
- **Shipping Zone** to open the shipping zone on the [Shipping Zones](#) (CS207510) form
- **Shipping Terms** to open the shipping terms on the [Shipping Terms](#) (CS208000) form

BigCommerce Stores
BigCommerce SweetStore - BC

Connector: BigCommerce ☒ Active
* Store Name: SweetStore - BC ☒ Default

CONNECTION SETTINGS ENTITY SETTINGS CUSTOMER SETTINGS INVENTORY SETTINGS ORDER SETTINGS PAYMENT SETTINGS **SHIPPING SETTINGS**

Active	Store Shipping Zone	* Store Shipping Method	Ship Via	Shipping Zone	Shipping Terms
<input checked="" type="checkbox"/>	United States	Flat Rate	SWEETSHIP		FLATRATE1
<input checked="" type="checkbox"/>	United States	Pickup in Store	LOCAL		
<input checked="" type="checkbox"/>	United States	USPS	USPSFIRST	CENTRAL	
<input type="checkbox"/>	Rest Of the World	Flat Rate			

Figure: Links on the Shipping Settings tab

Display of the Currencies Supported by the BigCommerce Store

On the [BigCommerce Stores](#) (BC201000) form, a new box, **Supported Currencies**, has been added to the **Store Properties** section of the **Connection Settings** tab. (See the following screenshot.) When a connection to a BigCommerce store is established, the new box is populated with all currencies that have been set up in the control panel of the BigCommerce store.

The screenshot shows the 'BigCommerce SweetStore - BC' configuration page. The 'STORE PROPERTIES' section is expanded, displaying the following settings:

- Connector: BigCommerce (Active, Default)
- Store Name: SweetStore - BC
- Store Admin Path: https://sweetstore.mybigcommerce.com/manage
- REST SETTINGS:
 - API Path: https://api.bigcommerce.com/stores/...
 - Client ID: *****
 - Access Token: *****
- WEBDAV SETTINGS:
 - WebDAV Path:
 - WebDAV Username:
 - WebDAV Password: *****
- SYSTEM SETTINGS:
 - Locale:
- STORE PROPERTIES:
 - Default Currency: USD
 - Supported Currencies: USD, CAD, EUR (highlighted with a red box)
 - Store Time Zone: America/New_York
- STORE ADMINISTRATOR DETAILS:
 - Administrator:
- LICENSE RESTRICTIONS:
 - Max. Number of Stores: 50

Figure: The list of currencies supported by the BigCommerce store

Changes to the Export of Non-Stock Items to Shopify

In previous versions of Acumatica ERP, when a non-stock item was exported to a Shopify store, it was marked in the admin area of the Shopify store as a nonphysical product. (That is, the **This is a physical product** check box was cleared in the **Shipping** section of the product management page.) When an order with this item was created in the Shopify store, it did not contain shipping information. After the order was imported to Acumatica ERP and a shipment was created, the shipment could not be exported to the Shopify store.

Starting in Acumatica ERP 2023 R1, if a non-stock item is marked as not requiring shipping, it is exported to the Shopify store as a nonphysical item. Shipping is not required for the non-stock item when the **Require Shipment** check box is cleared on the **General** tab of the **Non-Stock Items** (IN202000) form. If a non-stock item is marked as requiring shipping, it is exported to the Shopify store as a physical item. (In this case, the **Require Shipment** check box is selected.)

Limitation on Simultaneous Processing of Records

In previous versions of Acumatica ERP, when a user was synchronizing a large amount of data (for example, if the user's system contained many records or if they were resynchronizing historical data), the process could consume an excessive amount of memory and would sometimes stop before the synchronization was completed. To address this issue, in Acumatica ERP 2023 R1, a new box, **Processing Limit (Rows)**, has been added to the Summary area of the **Process Data** (BC501500) form.

By using this box, a user can limit the number of rows that the system processes when the user clicks **Process All** on the form toolbar. By default, the system processes all rows—that is, *No Limit* is selected in the **Processing Limit (Rows)** box. A user can limit the processing to 1,000, 2,000, 5,000, or 10,000 rows by selecting the appropriate value in this box. (See the following screenshot.)

The screenshot shows the 'Process Data' form. At the top, there are buttons for 'PROCESS' (highlighted in green), 'PROCESS ALL', and several icons. Below these are input fields for 'Store' (set to 'SweetStore - BC') and 'Entity'. A 'Processing Limit (Rows)' dropdown menu is open, showing options: 'No Limit', '1000', '2500', '5000', and '10000'. The 'No Limit' option is selected. Below the dropdown is a table with columns: Store, Entity, ERP ID, External ID, Status, Last Error, Last Operation, and Last Attempt. The table contains three rows of data, all with a status of 'Prepared' and a last operation of 'Modified Externally'.

Store	Entity	ERP ID	External ID	Status	Last Error	Last Operation	Last Attempt
SweetStore...	Sales Q...	290		Prepared		Modified Externally	11/2/2022 5:25 AM
SweetStore...	Sales Q...	292	292	Prepared		Modified Externally	11/2/2022 5:25 AM
SweetStore...	Sales Q...	294	294	Prepared		Modified Externally	11/2/2022 5:25 AM

Figure: The processing limits on the Process Data form

Additional Information About Synchronization Records with the Deleted Status

On the [Process Data](#) (BC501500) and [Sync History](#) (BC301000) forms, when a synchronization record is assigned the *Deleted* status, now the **Last Error** column shows the reason for the status assignment, which can be any of the following:

- The record does not exist in the ERP system.
- The record does not exist in the external system.
- The record does not exist in the ERP system or the external system.

For the *Product Availability* entity, the message includes information about the product—that is, if it has not been found, was excluded from synchronization, or was configured without tracking its available quantity.

Filtering Data During the Merging of Duplicate Records

In previous versions of Acumatica ERP, when customers and sales orders were synchronized between Acumatica ERP and an external system, during the merging of duplicate records, the system did not take into account the filtering conditions that had been set up on the [Entities](#) (BC202000) form. These duplicate records include records that have the same key field or fields, such as customers that have the same email address.

Starting in Acumatica ERP 2023 R1, filtering conditions are applied before the duplicate records are merged.

Suppose that a filtering condition has been created on the [Entities](#) form to exclude customers of a particular customer class from synchronization, and then a customer with the same email address as one of the customers of that excluded class is created in the external system. During the customer import, the customers with the same email address will not be merged because the system searches for duplicates only among the records within the scope of synchronization.

Restricted Export of Shipments to BigCommerce for In-Store Pickup Orders

In previous versions of Acumatica ERP, when a customer placed an order in a BigCommerce store and selected the *Pickup In Store* shipping option, the shipment created in Acumatica ERP after order import could be exported to BigCommerce upon synchronization. This caused BigCommerce to notify the customer by email about the order shipment, which was confusing because no actual shipping was needed and the customer did not expect a shipment for the order.

Starting in Acumatica ERP 2023 R1, users can set up shipments to not be exported to a BigCommerce store for in-store pickup orders. To do this, a user needs to create a Ship Via code with the **Common Carrier** check box cleared on the [Ship via Codes](#) (CS207500) form and map it to the *Pickup In Store* shipping method on the **Shipping Settings** tab of the [BigCommerce Stores](#) (BC201000) form. When the mapping is active, the system shows a warning that the shipments will not be exported to the BigCommerce store (see the following screenshot).

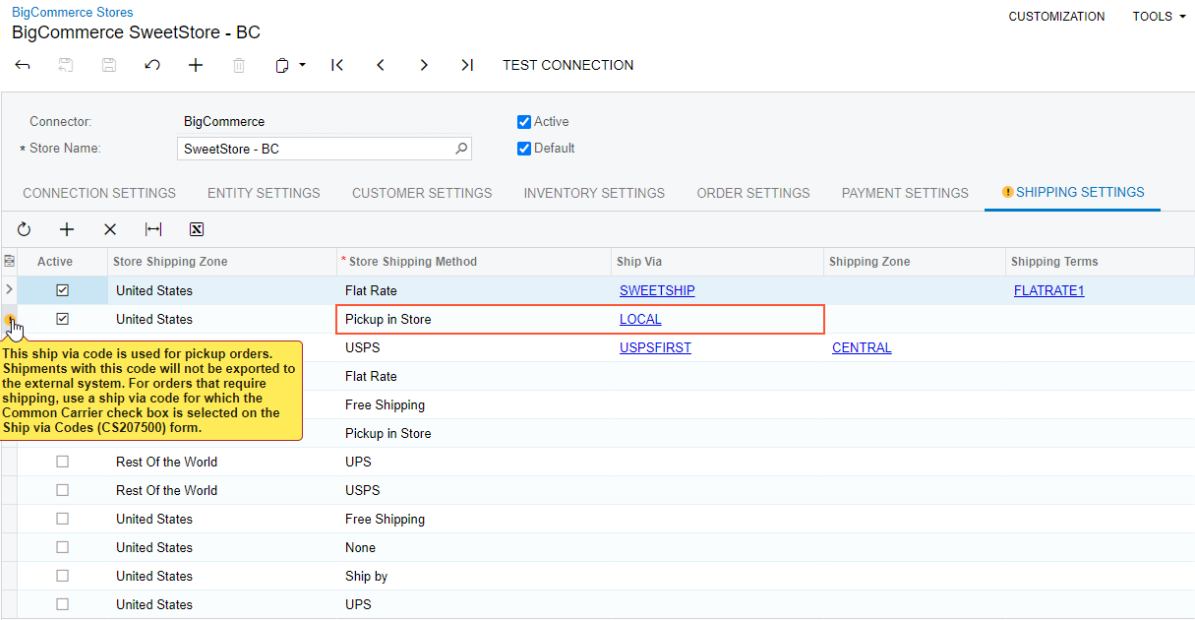


Figure: The warning message on the Shipping Settings tab

For a shipment that has been exported to a BigCommerce store, if a user clears the **Ship Via** box or selects a Ship Via code with the **Common Carrier** check box cleared (in the code's settings) on the **Shipping** tab of the [Shipments](#) (SO302000) or [Sales Orders](#) (SO301000) form, the shipment will be deleted from the BigCommerce store when it is resynchronized. However, if the **Ship Via** box is empty and the shipment has a tracking number, the shipment will be exported to the BigCommerce store.

If the shipment is assigned the *Confirmed* status and the sales order has a status other than *Back Order* in Acumatica ERP, upon synchronization, the in-store pickup order is assigned the *Completed* status in the BigCommerce store.

CRM: Address Settings for Duplicate Validation

In Acumatica ERP 2023 R1, users can use the address settings of leads, contacts, and business accounts in the duplicate validation process to improve the quality of information and eliminate the creation of duplicate records.

Using the Address Settings for Duplicate Validation

In previous versions of Acumatica ERP, pairs of record types were checked for duplicates by using a set of matching fields that did not include the address settings of the entity. Starting in Acumatica ERP 2023 R1, a user can select the following address settings as matching fields for each pair of record types on the [Duplicate Validation](#) (CR103000) form (see the following screenshot):

- *City*
- *Postal Code*
- *State*
- *Country*

Duplicate Validation NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS ▾

Comparison

- Lead to Lead
- Lead to Contact
- Lead to Account
- Contact to Conta
- Contact to Lead
- Contact to Accou
- Account to Accol

RULES OF COMPARISON

Validation Score Threshold:

☐ Validate on Entry

Matching Field	Score Weight	Transformation Rule	Create on Entry
Account Name	1.5000	Split Words	Allow
Phone 1	0.5000	None	Allow
City	1.0000	None	Allow
Country	1.0000	None	Allow
State	1.0000	None	Allow
Postal Code	1.0000	None	Allow
Web	0.5000	Domain Name	Allow

Figure: Address settings for duplicate validation

A score weight defined for any of the matching fields with address settings is also included in the grams calculation. For details about grams calculation, see [Duplicate Validation: Calculation of Validation Scores](#).

For each pair of record types on the [Duplicate Validation](#) form, the system compares the address settings that a user entered on the data entry forms, to search for the duplicate values in the matching fields of the records as follows:

- For a **Lead to Lead** pair of record types, the system compares the address settings entered by a user on the **Contact Info** tab of the [Leads](#) (CR301000) form for the compared records.
- For a **Lead to Contact** pair of record types, the system compares the address settings entered by a user on the **Contact Info** tab of the [Leads](#) form with the same address settings on the **Details** tab of the [Contacts](#) (CR302000) form.
- For a **Lead to Account** pair of record types, the system compares the address settings entered by a user on the **Contact Info** tab of the [Leads](#) form with the same address settings on the **General** tab of the [Business Accounts](#) (CR303000) form.

- For a **Contact to Contact** pair of record types, the system compares the address settings entered by a user on the **Details** tab of the [Contacts](#) form for the compared records.
- For a **Contact to Lead** pair of record types, the system compares the address settings entered by a user on the **Details** tab of the [Contacts](#) form with the same address settings on the **Contact Info** tab of the [Leads](#) form.
- For a **Contact to Account** pair of record types, the system compares the address settings entered by a user on the **Details** tab of the [Contacts](#) form with the same address settings on the **General** tab of the [Business Accounts](#) form.
- For a **Account to Account** pair of record types, the system compares the address settings entered by a user on the **General** tab of the [Business Accounts](#) form for the compared records.

CRM: Delegation and Reassignment of Approvals

Starting in Acumatica ERP 2023 R1, users can reassign requests for their approval or delegate approval requests to other users. This means that an organization can keep its approval flow running smoothly even if the original approver assigned through an approval map is temporarily unavailable. Also, users can create additional approval requests as exceptions to the normal approval flow on a temporary basis—that is, without administrators having to update existing approval maps.

The changes that support the ability to reassign or delegate approvals are described in the sections below.

Changes to the Approval Maps Form

On the [Approval Maps](#) (EP205015) form, on the **Rule Actions** tab of the right pane, the **Allow Reassignment of Approvals** check box has been added, as shown in the following screenshot. If this check box is selected for the rule selected in the **Steps** pane, the approver that the system assigned based on this rule can be changed. If this check box is cleared (which is its default state), the system will not allow a user to change the approver that has been assigned in accordance with the rule.

Approval Maps
Sales Quote Approval - Sales Quotes

Map: Sales Quote Approval Entity Type: Sales Quotes
* Name: Sales Quote Approval

Steps

ADD STEP + ↑ ↓ ×

- Large Discount
 - Over 50% - exec approval
 - Over 30% - manager approval
- Large Order
 - Over \$10K - manager approval
 - Over \$100K - exec approval

* Description: Over \$10K - manager approval
☒ Active

CONDITIONS RULE ACTIONS

APPROVAL SETTINGS

Approver: Employee
Employee: Jason Mendenhall
Workgroup: Sales
☒ Allow Reassignment of Approvals
* Decision Wait Time: 000 d 00 h 00 m
On Approval: Complete Step

REASON SETTINGS

Reason for Approval: Is Not Prompted
Reason for Rejection: Is Not Prompted

Figure: The new check box on the Rule Actions tab

The form subtitle now consists of the approval map name and the selected entity type. Also, the **Description** box and the **Active** check box have been moved from the **Conditions** tab to the area above the tabs, as shown in the following screenshot.

The screenshot shows the 'Sales Quote Approval - Sales Quotes' form. The 'Steps' section on the left lists various approval steps, including 'Over \$10K - manager approval'. The 'CONDITIONS' tab is active, showing a rule with the condition 'Total' 'Is Greater' '10,000.00'. The 'Description' field is set to 'Over \$10K - manager approval' and is checked as 'Active'.

Figure: Changes to the Approval Maps form

Changes to the Approvals Form

The following changes have been made to the form toolbar of the [Approvals](#) (EP503010) form:

- The **Schedules** menu has been removed.
- The **More** menu has been added.
- The **Reject All** command has been moved under the **Approval** category of the **More** menu.
- A new command, **Reassign**, has been added to the **More** menu. Before clicking this command, a user selects all records to be reassigned in the table by selecting the unlabeled check boxes for them. If the user then clicks this command, the **Reassign Approval** dialog box, which is shown in the following screenshot, opens.

The screenshot shows the 'Approvals' form with a table of records. The 'Reassign Approval' dialog box is open, allowing the user to specify a new approver. The dialog box includes a search field for 'New Approver' and an 'Ignore Approver's Delegations' checkbox. The table below shows the records being reviewed.

Type	Reference Nbr.	Owner	Document Date	Business Account	Account Name
Project Quote	PQ000014	Maxwell Baker	2/2/2023	AACUSTOMER	Alta Ace
Project Quote	PQ000011	Maxwell Baker	1/4/2023	AACUSTOMER	Alta Ace
Sales Quote	Q000013				Chocolate By Design
Purchase O...	PO001319				Tolivers Carpets & Tiles
ECR Item	ECR000011				Maxwell Baker
ECR Item	ECR000012				Maxwell Baker
Purchase O...	PO001321				American Refrigeration
ECO Item	ECO000003		8/12/2020	EP00000004	Joseph Becher
ECO Item	ECO000004		8/12/2020	EP00000002	Maxwell Baker
ECR Item	ECR000008		8/12/2020	EP00000043	Ian Pick

Figure: Reassign Approval dialog box

By using the **Reassign Approval** dialog box, the user can specify a new approver to reassign the selected records to this approver if the reassignment of approvals is allowed in the related rule of the approval map on the [Approval Maps](#) (EP205015) form. If the **Ignore Approver's Delegations** check box is selected in the dialog box, the system will assign the selected approval requests to the selected new approver but not to their delegate, even if the new approver is unavailable and has a delegation set up for the current date. (The next section describes how delegations are configured for an employee or a user.)

If the **Ignore Approver's Delegations** check box is cleared and if the new approver is not available and has a delegation set up for the current date, the system will reassign the selected approval requests to the delegate if the delegate is available. If the delegate is unavailable, the system will reassign the requests to the delegate of the delegate. The system will continue the search in this way until it assigns an approver that has no active delegations.

set up for the current date or it detects a loop in the chain of delegations (in which case an error message will prompt the user to specify a different approver).

Also, the **Reassigned** filter tab has been added to the form. This filter tab displays the records that were originally assigned for approval to the currently signed-in user but are now assigned to a different approver.



To be able to view and approve records on this form, the new approver must have sufficient access rights. With some types of records, such as expense claims, although the new approver may be allowed to approve records, they may not be able to view the details of these records on the corresponding entry forms because of the specifics of the record visibility settings that are effective on these forms.

The Delegates Tab on the Employees and User Profile Forms

On the **Delegates** tab of the [Employees](#) (EP203000) form, the delegates of the selected employee are listed. This tab, which is shown in the screenshot below, has been reworked as follows:

- The **Delegation Of** column has been added. The option in this column indicates whether the delegation rule applies to approvals or expense receipts and expense claims. (In previous versions, the tab listed only delegates for expense receipts and expense claims, so the column was not needed.)
- In the new **Delegated To** column, the employee name of the appointed delegate is displayed. In previous versions, the tab had the **Delegate** and **Employee Name** columns, which showed the employee ID and employee name, respectively, of the delegate.
- The new **Active** check box indicates whether the delegation rule in the row is active and can be used by the system for determining the appropriate delegate for the employee.
- The new **Starts On** date is the starting date of the delegation period during which approval requests can be reassigned to the specified delegate.
- The new **Expires On** date is the date after which the delegation rule is no longer applicable and previously reassigned approval requests that have not yet been processed are assigned back to the employee.
- The **Starts On** and **Expires On** dates are editable only for the rows that have the *Approvals* option selected in the **Delegation Of** column.

Delegation Of	Delegated To	Active	Starts On	Expires On
Approvals	Anna Johnson	<input checked="" type="checkbox"/>	2/1/2023	2/14/2023
Expense Receipts and Ex...	Nenad Pasic	<input checked="" type="checkbox"/>		

Figure: The Delegates tab of the Employees form

The **Delegates** tab has also been added to the [User Profile](#) (SM203010) form; it has the same columns as the tab on the [Employees](#) form does. The data displayed on this tab belongs to the employee associated with the currently signed-in user.

Changes to the Approvals Tab of Multiple Forms

The **Originally Assigned To** column has been added to the table on the **Approvals** tab, which is available on the following document entry forms that support approvals:

- [Bills and Adjustments](#) (AP301000)

- [Cash Sales](#) (AR304000)
- [Cash Transactions](#) (CA304000)
- [Change Orders](#) (PM308000)
- [Change Requests](#) (PM308500)
- [Checks and Payments](#) (AP302000)
- [Cost Projection](#) (PM305000)
- [Daily Field Report](#) (PJ304000)
- [Employee Time Card](#) (EP305000)
- [Engineering Change Order](#) (AM215000)
- [Engineering Change Request](#) (AM210000)
- [Equipment Time Card](#) (EP308000)
- [Expense Claim](#) (EP301000)
- [Expense Receipt](#) (EP301020)
- [Invoices and Memos](#) (AR301000)
- [Journal Transactions](#) (GL301000)
- [Payments and Applications](#) (AR302000)
- [Pro Forma Invoices](#) (PM307000)
- [Progress Worksheets](#) (PM303000)
- [Project Quotes](#) (PM304500)
- [Projects](#) (PM301000)
- [Purchase Orders](#) (PO301000)
- [Cash Purchases](#) (AP304000)
- [Requests](#) (RQ301000)
- [Requisitions](#) (RQ302000)
- [Sales Orders](#) (SO301000)
- [Sales Quotes](#) (CR304500)
- [Subcontracts](#) (SC301000)

The **Originally Assigned To** column is hidden by default, but the Column Configuration dialog box can be used to make it visible.

Also, the **Reassign** command has been added to the More menu of the forms that are listed above, as illustrated in the following screenshot for the [Change Orders](#) form. By using this command, an authorized approver of a particular document can reassign this document to a different user for approval.

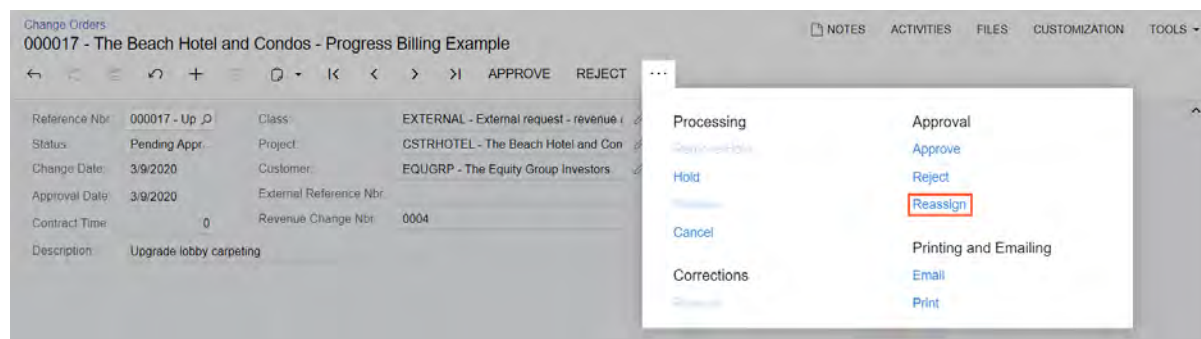


Figure: The More menu of the Change Orders form

Reassign Delegated Activities Form

A new processing form, [Reassign Delegated Activities](#) (EP503020), has been added to the system.

This form is available only if the *Approval Workflow* feature is enabled on the [Enable/Disable Features](#) (CS100000) form. By using the [Reassign Delegated Activities](#) form, which is shown in the following screenshot, an administrative user can reassign existing approval requests to delegates or return them to the original approver if the relevant delegation rules are no longer effective.

Delegation Of	Original Assignee	Current Assignee	Delegated To	Active	Starts On	Expires On	Document Type	References Nbr.	Requested Time	Description
Approvals	Maxwell Baker	Maxwell Baker	Anna Johnson	<input checked="" type="checkbox"/>	1/17/2023	2/14/2023	ECR Item	ECR000011	1/12/2021 2:4	Assembled widget - backflush labor
Approvals	Maxwell Baker	Maxwell Baker	Anna Johnson	<input checked="" type="checkbox"/>	1/17/2023	2/14/2023	ECR Item	ECR000012	1/12/2021 2:4	Stainless Cap Hob
Approvals	Maxwell Baker	Maxwell Baker	Anna Johnson	<input checked="" type="checkbox"/>	1/17/2023	2/14/2023	ECO Item	ECO000003	1/12/2021 2:4	Build Keurig Model 450
Approvals	Maxwell Baker	Maxwell Baker	Anna Johnson	<input checked="" type="checkbox"/>	1/17/2023	2/14/2023	ECO Item	ECO000004	1/12/2021 2:4	Custom Pipe Cover
Approvals	Maxwell Baker	Maxwell Baker	Anna Johnson	<input checked="" type="checkbox"/>	1/17/2023	2/14/2023	ECR Item	ECR000008	10/5/2021 8:2	Assembled widget - backflush labor
Approvals	Maxwell Baker	Maxwell Baker	Anna Johnson	<input checked="" type="checkbox"/>	1/17/2023	2/14/2023	Change Order	000017	1/17/2023 8:3	Upgrade lobby carpeting

Figure: Reassign Delegated Activities form

By using the **Process** or **Process All** buttons on the form toolbar, the administrative user can run the reassignment of only selected records or of all listed records, respectively. Each involved record is processed as follows:

- If the current date is within the delegation period determined by the dates in the **Starts On** and **Expires On** columns, the record is reassigned to the employee specified in the **Delegated To** column.
- If the current date is outside the delegation period, the record is reassigned to the employee specified in the **Original Assignee** column.

The reassignment of delegated activities may be automated through the use of automation schedules. A predefined automation schedule, *Reassign delegated activities*, is available for the form; this schedule is set up to run hourly.

In the out-of-the-box system, the link to this form can be found in the **System Management** workspace under the **System Processes** category, as shown in the following screenshot.

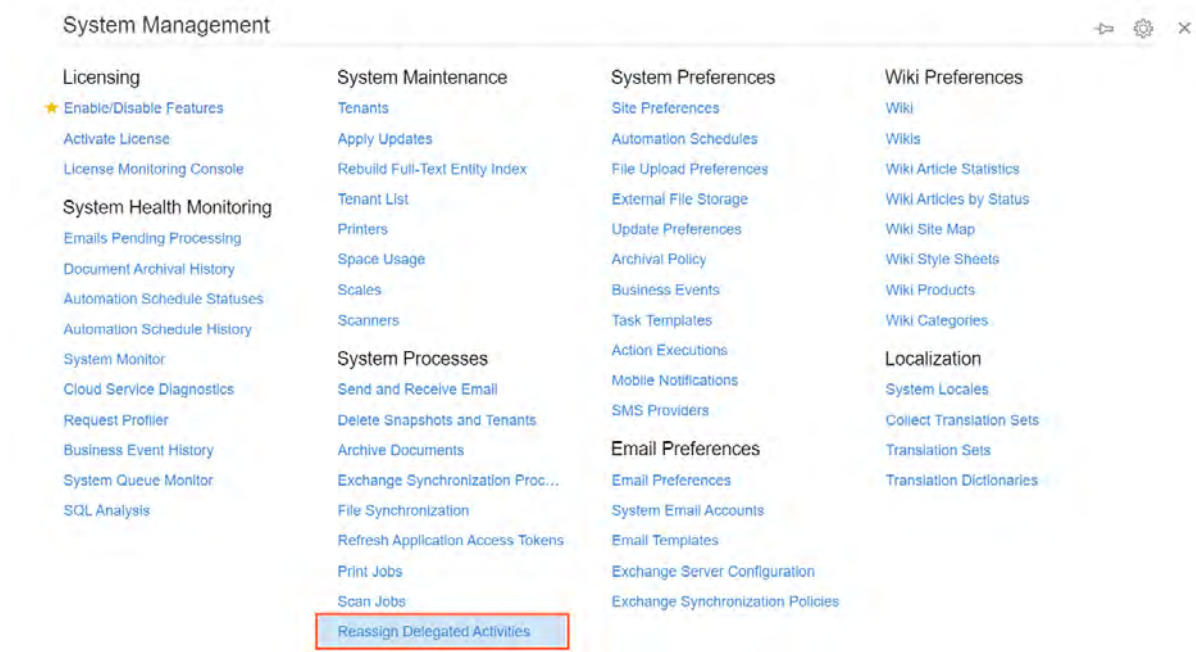


Figure: System Management workspace

Email Notifications

Only original approvers will receive email notifications about records that are pending their approval if such notifications are set up in the system. Email notifications for new approvers can be set up through the use of business events. For details, see [Business Events: Email Notifications](#).

Other Changes

On the [Employees](#) (EP203000) form, the tabs have been renamed as follows.

Old Title	New Title
General Info	General
Employment History	History
Financial Settings	Financial
Mailings	Mailing & Printing
Company Tree Info	Workgroups
User Info	User

CRM: Enhancements to CRM Tasks

Acumatica ERP 2023 R1 introduces a new layout of the [Task](#) (CR306020) form to make data entry easier. Also, a new *Tasks* (EP4040PL) list of records has been added, which gives users the ability to view the existing tasks and to navigate between tasks more easily.

New Layout of the Task Form

In Acumatica ERP 2023 R1, the [Task](#) (CR306020) form has a new layout (see the following screenshot). The form's subtitle (see Item 1 in the following screenshot) contains the description copied from the **Summary** box of the **Details** tab. Also, many UI elements on the **Details** tab have been rearranged or renamed to improve usability. The **Related Activities** and **Related Tasks** tabs have been merged to the **Activities** tab (Item 2). For a detailed description of the **Activities** tab, see the following section.

Figure: Updates to the Task form

The form toolbar has been enhanced as follows:

- The standard **Add New Record** button (see Item 3 in the previous screenshot) has been added.
- The standard **Clipboard** button (Item 4), which a user clicks to open the **Clipboard** menu, has been added.

When a user creates a new task by using the **Clipboard** button, the system copies to the new task the value or state of the following elements of the **Details** tab of the task the user is viewing:

- **Summary**
- **Owner**
- **Workgroup**
- **Internal**
- **Related Entity Type**
- **Related Entity**
- **Project**

- **Project Task**
- **Cost Code**
- **Priority**
- **Category**
- **Service**
- Task description area



If the user role does not have the rights to access the related entity in the selected task, the system displays the following error message next to the **Related Entity** box of a new task: *You have insufficient rights to access the object.*

- The **Complete & Follow-Up** button has been renamed to **Complete & Follow Up** (Item 5). The follow-up task created by using the button has the *Not Started* status and contains the same details as the completed task.

The **Complete**, **Complete & Follow Up**, and **Cancel** buttons are available on the form toolbar depending on the task's status as follows:

- The *Open* or *Processing* status: All buttons are enabled.
- The *Draft* status: Only the **Cancel** button is enabled.
- The *Completed* or *Canceled* status: None of these buttons are enabled.
- The **Remind at (Date)** box has been renamed to **Remind At** (Item 6). The box is available and required if the **Reminder** check box is selected.
- The **Parent** box has been renamed to **Parent Activity**. When a user clicks the **Complete & Follow Up** button, the system inserts the link to the parent task into the box of the follow-up task. When a user clicks this link in the follow-up task, the system opens the parent task on the [Task](#) form.

The Related Tasks, Emails, and Activities of the Task

The **Activities** tab of the [Task](#) (CR306020) form contains the information about the tasks, emails, and activities related to the current task (as shown in the following screenshot).

Task

A new task for Bill Owen

NOTES FILES CUSTOMIZATION TOOLS ▾

← ↻ + 🗑️ COMPLETE COMPLETE & FOLLOW UP CANCEL

DETAILS **ACTIVITIES**

	CREATE TASK	CREATE EMAIL	CREATE ACTIVITY ▾												
				Type	* Summary	Cost Code	Status	Start Date	Created At	Category	Time Spent	Overtime	Billable Time	Billable Overtime	Owner
>	🗑️	📧	📅	Task	Pivot report...	00-000	Open	1/16/2023 12:00	1/16/2023 1:22 F		00:00	00:00	00:00	00:00	Kimberly Gibbs
	🗑️	📧	📅	Task	Create a report	00-000	Open	1/16/2023 12:00	1/16/2023 12:45	Green	00:00	00:00	00:00	00:00	Bill Owen

Figure: The Activities tab

The table toolbar of the tab contains the following buttons (see Item 1 in the previous screenshot):

- The **Create Task** button: Opens the current form in a pop-up window so that a user can create a new task related to the current task. The created task will be displayed in the table of the tab.
- The **Create Email** button: Opens the [Email Activity](#) (CR306015) form in a pop-up window when a user can create a new email related to the current task. The created email will be displayed in the table of the tab.
- The **Create Activity** button: Opens the [Activity](#) (CR306010) form of the selected type in a pop-up window. On this form, the user can create an activity related to the current task. The created activity will be displayed in the table of the tab.

The table of the tab (Item 2) contains the summary settings of the tasks, emails, and activities related to the current task.

New Tasks (EP4040PL) List of Records

Starting in Acumatica ERP 2023 R1, the new *Tasks (EP4040PL)* list of records, shown in the following screenshot, has been added.

Summary	Status	Start Date	Due Date	Category	Related Entity	Contact	Phone 1	Email	Completed At	Owner
Prepare an offer on juicers	Completed	2/16/2023	2/17/2023		Jeanne ...				2/16/2023 5:11	David Chubb
A new task for Bill Owen	Completed	1/16/2023	1/17/2023		ABAKER...				1/16/2023 12:12	Bill Owen
Create a report	Open	1/16/2023	1/17/2023	Green	ABAKER...				1/16/2023 12:12	Bill Owen
Pivot report of weekly activities	Open	1/16/2023	1/17/2023		ABAKER...					Kimberly Gibbs
meeting with MYAVOCADO	Open	1/11/2023	1/12/2023		Kim Frey					Bill Owen

Figure: The new *Tasks (EP4040PL)* list of records

In an out-of-the-box instance of Acumatica ERP, a user can open this list of records by clicking the *Task* link in the **Time and Expenses** workspace under the **Tasks** category. To create a new task on the [Task \(CR306020\)](#) form, the user instead clicks the **New** button right of the *Tasks* link.

The *Tasks (EP4040PL)* list of records contains the following tabs (Item 1 in the previous screenshot), each of which displays a list of records with the described tasks:

- **All Records** tab: All tasks created in the system that are available for review, based on the role or roles assigned to the user account of the signed-in user.
- **My Tasks** tab: The tasks to which the user has been assigned as the owner.
- **My Workgroup Tasks** tab: The tasks assigned to the users in the workgroup the signed-in user belongs to and any workgroups in the company tree that are positioned on levels lower than this workgroup but in the same node.
- **Due Today and Overdue Tasks** tab: The tasks for which the due date is the current date or an earlier date (that is, overdue tasks) with the *Open* or *Processing* status.
- **Open Tasks** tab: The active tasks with the *Draft*, *Open*, or *Processing* status.

The table on each tab (Item 2) contains the following columns, which hold summary information about the tasks included in the list of records:

- **Summary**
- **Status**
- **Start Date**
- **Due Date**
- **Category**
- **Related Entity**
- **Contact** (of the related entity)
- **Phone 1** (of the related contact)
- **Email** (of the related contact)
- **Completed At**
- **Owner**

In the *Tasks* list of records, a user can easily see if a task with the *Open* or *Processing* status is overdue. A task is overdue if the **Due Date** of the task is earlier than the current date. The due date of overdue tasks is indicated in red type (Item 3).

Also, in the **Category** column of the *Tasks* form (Item 4), a task with the selected category is highlighted in the color that has been associated with this category on the *Event and Task Categories* (EP204040) form.

Also, a side panel has been added to the list of records (Item 5). By clicking a task in the list and opening the side panel, a user can quickly find, view, and modify the information related to the task in the selected row (see the following screenshot).

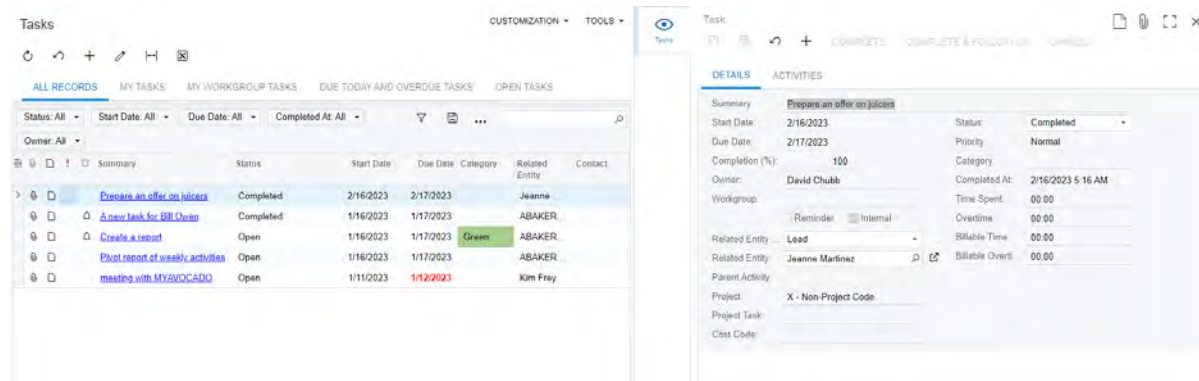


Figure: The side panel for the list of tasks

The obsolete *Tasks* (CR404000) form has been deleted from the system.

Task-Related Enhancements in the Mobile App

In Acumatica ERP 2023 R1, the usability of the *Task* screen in the Acumatica mobile app has been improved. On the **Summary** tab of the screen, some fields have been rearranged as follows (see the following screenshot).

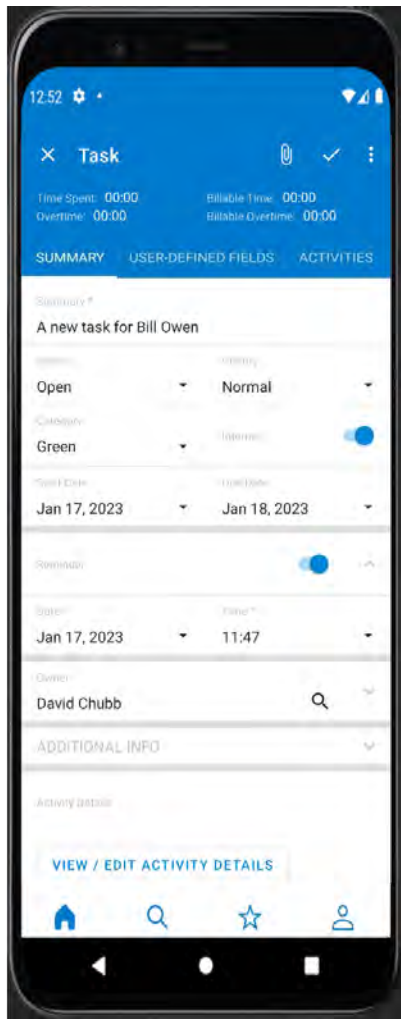


Figure: The Summary tab of the Task screen

On the **Summary** tab, the **Additional Info** group of fields has been added. The group includes the following new and existing fields (see the screenshot below):

- **Related Entity Type** (read-only)
- **Related Entity** (read-only)
- **Parent Activity**
- **Service**
- **Project**
- **Project Task**
- **Cost Code**
- **Completion (%)**
- **Completed At**

The screenshot shows a mobile application interface for a 'Task' screen. At the top, there's a blue header bar with a back arrow, the title 'Task', and icons for attachments, a checkmark, and a menu. Below the header, there are four time tracking fields: 'Time Spent: 00:00', 'Billable Time: 00:00', 'Overtime: 00:00', and 'Billable Overtime: 00:00'. Below these fields are three tabs: 'SUMMARY', 'USER-DEFINED FIELDS', and 'ACTIVITIES'. The 'SUMMARY' tab is selected, showing an 'ADDITIONAL INFO' section with a collapse icon. This section contains several form fields: 'Related Entity Type *' with the value 'Contact', 'Related Entity' with the value 'Adam Wilson', 'Parent Activity', 'Project *' with the value 'Non-Project Code.' and a search icon, 'Project Task', 'Cost Code' with a search icon, 'Service' with a search icon, 'Completion (%)' with the value '0', and 'Completed At' with a date/time picker icon. At the bottom of the screen is a navigation bar with icons for home, search, favorites, and profile.

Figure: The Additional Info group of fields on the Task screen




Near the top of the *Task* screen, the following time tracking fields have been added (see the following screenshot):

- **Time Spent**
- **Overtime**
- **Billable Time**
- **Billable Overtime**



Figure: The time tracking fields on the Task screen

The **Related** tab has been renamed to **Activities**. On the **Activities** tab, the Activities container of the screen toolbar contains commands the user can tap to do the following (see the following screenshot):

- Create a new task ()
- Create a new email ()
- Create a new activity ()

When a user taps this icon, a menu with the commands opens and the user can select the type of activity to be created. The user can use this menu also to add the task to the **Favorites** workspace.

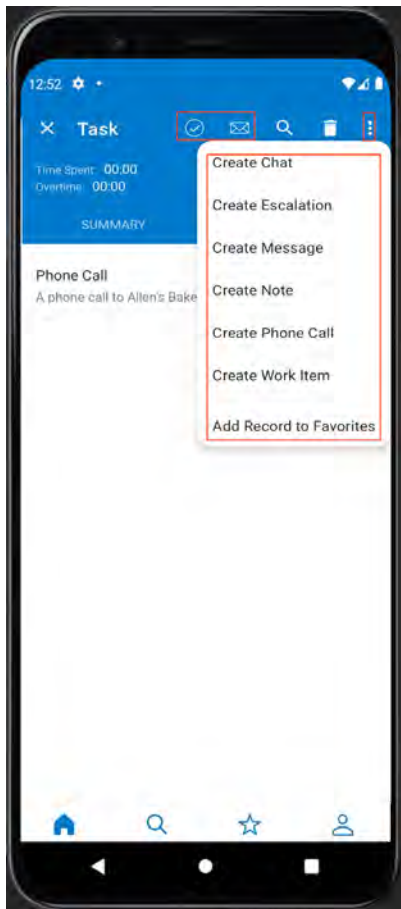


Figure: The specific commands on the screen toolbar of the Activities tab

Acumatica ERP 2023 R1 also introduces the new *Tasks* screen, which lists tasks grouped on the following tabs: **All**, **My Tasks**, **My Workgroup Tasks**, **Due Today and Overdue Tasks**, and **Open Tasks**.

Additional Information

For details about the task management, see [Emails and Activities: Tasks](#) and [Task Management](#).

CRM: Ability to Extend a Business Account as a Customer During Sales Order Creation

In Acumatica ERP 2023 R1, while creating a sales order from an opportunity or sales quote for a prospect, a user can extend the business account of the prospect to be a customer.

Extension of a Business Account as a Customer

A prospective customer is defined as a business account on the [Business Accounts](#) (CR303000) form. That is, the account type (on the **CRM Info** tab) is *Business Account*. If the account is later extended to be a customer, the type is changed to *Customer*.

In previous versions of Acumatica ERP, when an opportunity or a sales quote is ready to be converted to a sales order, for an opportunity or sales order with an account of the *Business Account* type, a user could not complete the creation of a sales order while remaining on the [Opportunities](#) (CR304000) or [Sales Quotes](#) (CR304500) form. To complete the order creation, the user had to open the account on the [Business Accounts](#) form, extend the account as a customer, and then start the process of sales order creation again.

Starting in Acumatica ERP 2023 R1, a user can extend a business account to be a customer while creating a sales order on the [Opportunities](#) or [Sales Quotes](#) form. This functionality is described further in this topic.

Enhancements to the Create Sales Order Dialog Box for Business Accounts

On the [Opportunities](#) (CR304000) and [Sales Quotes](#) (CR304500) forms, if the business account that is selected in the Summary area of the form has the *Business Account* type, when a user clicks the **Create Sales Order** or **Convert to Order** command on the More menu, the **Create Sales Order** dialog box opens (see the following screenshot).

The screenshot shows the 'Create Sales Order' dialog box in the Acumatica ERP interface. The dialog box is titled 'Create Sales Order' and has a close button (X) in the top right corner. It features three tabs: 'MAIN', 'ATTRIBUTES', and 'USER-DEFINED FIELDS'. The 'MAIN' tab is active, displaying the following fields and options:

- SALES ORDER** section:
 - * Order Type: SO - Sales Order (with a selection icon)
 - * Order Nbr.: (empty text field)
 - ☒ Set Quote as Primary
 - ☐ Recalculate Prices
 - ☐ Override Manual Prices
 - ☐ Recalculate Discounts
 - ☐ Override Manual Line Discounts
 - ☐ Override Manual Group and Document Discounts
- CUSTOMER** section:
 - Customer ID: GREENEX - Greenex Cafe
 - * Customer Class: DEFAULT - Local Customers (with a selection icon)
 - Customer Email: cathy@greenex.example.com (with an email icon)

At the bottom of the dialog box are two buttons: 'CREATE AND REVIEW' and 'CANCEL'. The background shows a 'Sales Quotes' form with a summary table:

Quantity	UOM	Unit Price	Ext. Price	Discount, %	Discount Amount
1.00	LB	2.5000	2.50	0.000000	0.0000
2.00	PIECE	45.1500	90.30	0.000000	0.0000

The summary table shows a total of 92.80. The 'Sales Quotes' form also displays a 'Summary' section with fields for Amount (92.80), Discount (0.00), Tax Total (0.00), and Total (92.80).

Figure: The Create Sales Order dialog box for a business account

The enhanced dialog box contains the following elements, some of which are new and others are modified:

- The **Main** tab: A tab that holds the settings for the creation of a sales order and the extension of the business account to be a customer. This tab has some new elements, as described below.

- The **Attributes** tab: A tab with all the required attributes defined for the customer on the [Customer Classes](#) (AR201000) form. The user has to select the value for the attributes. This tab is new in the dialog box.
- The **User-Defined Fields** tab: A tab with all required user-defined fields that are defined for the customer on the [Customers](#) (AR303000) form. The user has to specify the values of all the user-defined fields. This tab is new in the dialog box.
- The **Sales Order** section: A section that contains the settings of the sales order that will be created. The elements of the section have some enhancements.
- The **Order Type** box: The order type of the sales order to be created. In Acumatica ERP 2023 R1, the lookup table has been filtered to display only the order types for which one of the following automation behaviors has been selected on the [Order Types](#) (SO201000) form:
 - *Sales Order*
 - *Invoice*
 - *Blanket Order*
 - *Quote*
- The **Set Quote as Primary** check box: A check box that starting in Acumatica ERP 2023 R1 is shown in the dialog box and is selected by default only if the sales order is being created from a non-primary sales quote on the [Sales Quotes](#) form.
- The **Customer** section: A section that contains the settings of the customer that will be created when the business account is extended to be a customer. The section and its elements are new.
- The **Customer ID** box: The name of the customer, which is the same as the name of the business account. The box is unavailable for editing.
- The **Customer Class** box: The customer class that the customer will belong to. The list of classes available in this box is restricted based on the roles assigned to the current user. By default, the system inserts the default customer class that has been specified on the [Accounts Receivable Preferences](#) (AR101000) form (if any); otherwise, the box is empty. The customer class is a required setting.
- The **Customer Email** box: The email address of the business account, which is displayed if the settings of the selected customer class require that it be specified. The box is hidden by default.
- The **Create and Review** button: A button that the user can click to cause the system to perform the following actions:
 - Validating that the user has filled in all required boxes in the dialog box
 - Creating a new customer based on the existing business account
 - Creating a new sales order for the customer and opening it on the [Sales Orders](#) (SO301000) form

For the extension of the business account to be a customer, the user may need to fill in more information (for example, information that is required for a customer of the selected class). If this is the case, the dialog box displays an error message (see Item 1 in the following screenshot), and the **Customer Class** and **Customer Email** boxes in the **Customer** section become unavailable for editing (Item 2). Also, the **Create Customer** button (Item 3) appears in the dialog box. When the user clicks the button, the created customer is opened on the [Customers](#) form in a new browser tab. After filling in the required information and saving the changes, the user needs to return to the [Sales Orders](#) form to create a sales order.

Create Sales Order

MAIN ATTRIBUTES USER-DEFINED FIELDS

SALES ORDER

* Order Type: SO - Sales Order

* Order Nbr.: 1

☒ Set Quote as Primary

☐ Recalculate Prices

☐ Override Manual Prices

☐ Recalculate Discounts

☐ Override Manual Line Discounts

☐ Override Manual Group and Document Discounts

CUSTOMER

Customer ID: GREENEX - Greenex Cafe

Customer Class: GOVERNMENT - Construction governme

Customer Email: cathy@greenex.example.com

1 You need to extend the business account to be a customer. Click Create Customer, and fill in the required settings of the class on the Customers (AR303000) form. Then you can create the sales order.

3 CREATE CUSTOMER CREATE AND REVIEW CANCEL

Figure: The error message and button in the dialog box

Enhancements to the Create Sales Order Dialog Box for Customers

In Acumatica ERP 2023 R1, on the [Opportunities](#) (CR304000) and [Sales Quotes](#) (CR304500) forms, if the selected business account has the *Customer* type, a slightly different version of the **Create Sales Order** dialog box opens when the user clicks **Create Sales Order** or **Convert to Order** on the More menu (see the following screenshot).

Create Sales Order

MAIN

1 **SALES ORDER**

2 * Order Type: SO - Sales Order

* Order Nbr.:

3 ☒ Set Quote as Primary

☐ Recalculate Prices

☐ Override Manual Prices

☐ Recalculate Discounts

☐ Override Manual Line Discounts

☐ Override Manual Group and Document Discounts

4 CREATE AND REVIEW CANCEL

Figure: The Create Sales Order dialog box for customers

The following improvements have been made to the **Create Sales Order** dialog box:

- The **Sales Order** section (see Item 1 in the previous screenshot) has been added. This section contains the settings of the sales order that will be created.
- In the **Order Type** box (Item 2), the lookup table is now filtered to display only the order types for which one of the following automation behaviors has been selected on the [Order Types](#) (SO201000) form:
 - Sales Order*

- Invoice
- Blanket Order
- Quote
- The **Set Quote as Primary** check box (Item 3) starting in Acumatica ERP 2023 R1 is shown in the dialog box and is selected by default only if the sales order is being created from a non-primary sales quote on the [Sales Quotes](#) form.
- The **OK** button has been renamed to **Create and Review** (Item 4).

Validation of User Rights for Customer Creation

On the [Opportunities](#) (CR304000) and [Sales Quotes](#) (CR304500) forms, when a user clicks the **Create Sales Order** or **Convert to Order** command on the More menu of the respective form, the system first validates the user rights to create a customer. If the user has no such rights, an error is displayed indicating that the user does not have access rights to create a customer and should contact a system administrator (see the following screenshot).

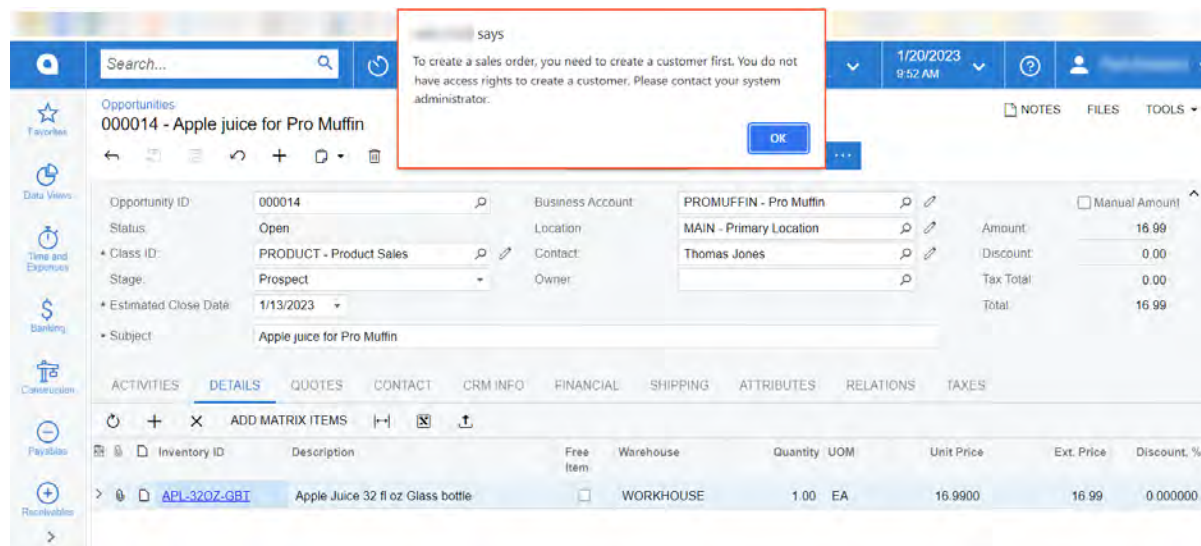


Figure: The error message

CRM: Predefined Email Notifications

In Acumatica ERP 2023 R1, new predefined CRM business events have been defined on the [Business Events](#) (SM302050) form. With the new business events, users can receive email notifications related to tasks and activities being assigned to the owner.

Starting in Acumatica ERP 2023 R1, the out-of-the-box system provides a set of business events and the related notification templates. A system administrator can activate any business event the company wants to use by selecting the **Active** check box in the Summary area of the [Business Events](#) form for the event, and users will receive notifications by email when the business event occurs.

The business events are triggered by the owner being changed on the [Task](#) (CR306020) and [Activity](#) (CR306010) forms.

Notifications About New Tasks and Activities Being Assigned to Owners

A user can receive email notifications when a new task or activity has been assigned to this user and it was created by another user.

On the [Business Events](#) (SM302050) form, the following predefined business events have been configured.

Event ID	Description
<i>CRNewTask</i>	A new task with the <i>Open</i> or <i>Processing</i> status has been assigned to an owner who was not the creator.
<i>CRNewActivity</i>	A new activity has been assigned to an owner who was not the creator.



For these business events, the following email templates for notification have been defined on the [Email Templates](#) (SM204003) form.

Event ID	Notification ID
<i>CRNewTask</i>	<i>CRNewTaskNotification</i>
<i>CRNewActivity</i>	<i>CRNewActivityNotification</i>

For example, suppose that the *CRNewActivity* business event has been activated, and an activity has been assigned to a new owner who is not the creator of this activity. The contact selected in the **Owner** box in the Summary area of the [Activity](#) form will receive an email based on the *CRNewActivityNotification* notification template. (An example of this email is shown in the following screenshot.) The emails generated based on the notification templates are listed on the [All Emails](#) (CO409070) form.

Email Activity







NOTES FILES TOOLS ▾



* From:	System
To:	chubb@sweetlife.com X
CC:	
BCC:	
Subject:	A new Phone Call has been assigned to you

MESSAGE DETAILS

VISUAL ▾


Paragraph ▾
B
I
U ▾





Dear David,

You have have been assigned to a new Phone Call.

Activity Details:
Summary: Call to MyAvocado
Start Date: 1/11/2023 7:20 AM
Related Entity: Lead-Kim Frey

Direct Link: <http://msk-app-001/tw-training/Main?ScreenId=CR306010&NotelD=CEE5794C-AA91-ED11-8D07-E8F408454DC8>**Figure: An email notifying the recipient about a new activity being assigned to them****Notifications of Tasks and Activities Being Assigned to Owners of Related Entities**

The owner of an entity (such as a lead, a contact, a business account, an opportunity, or a case) that is related to a task or activity can receive an email notification when the task or activity is assigned in the following scenarios:

- A task or activity has been created for the related entity and assigned to a different user than the owner of the entity.
- An existing task or activity associated with the related entity has been reassigned to a different user than the owner of the entity.
- An existing task or activity has been associated with this related entity and assigned to a different user than the owner of the entity.

On the [Business Events](#) form, the following predefined business events have been configured.

Event ID	Description
<i>CRNewThirdPartyTask</i>	A task with the <i>Open</i> or <i>Processing</i> status has been assigned to an owner that differs from the owner of the related entity of the task.
<i>CRNewThirdPartyActivity</i>	An activity has been assigned to an owner that differs from the owner of the related entity of the activity.

For these business events, the following email templates for notification have been configured on the [Email Templates](#) (SM204003) form.

Event ID	Notification ID
<i>CRNewThirdPartyTask</i>	<i>CRNewThirdPartyTaskNotification</i>
<i>CRNewThirdPartyActivity</i>	<i>CRNewThirdPartyActivityNotification</i>

For example, suppose the following:

- The *CRNewThirdPartyActivity* business event has been activated
- An activity has a business account specified as its related entity
- The activity has been assigned to a user who is not the owner of the related business account

The owner of the business account will receive an email based on the *CRNewThirdPartyActivityNotification* notification template. (An example of such an email is shown in the following screenshot.)

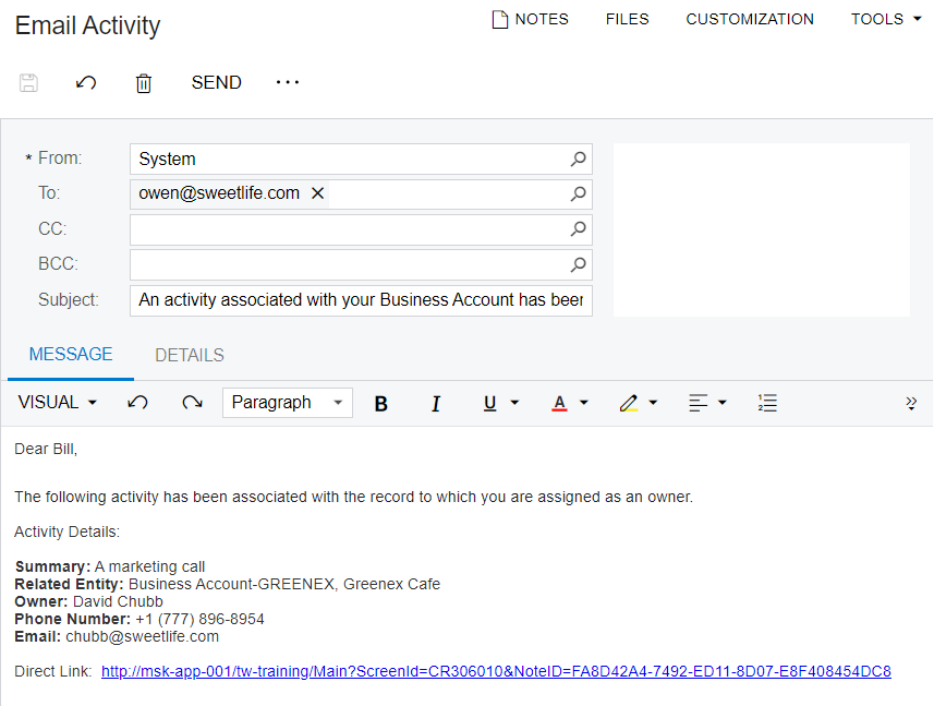


Figure: An email notifying the owner of the related entity about a new activity being assigned to another user

Additional Information

For details about the activity and task management, see [Emails and Activities: Activities](#) and [Emails and Activities: Tasks](#).

CRM: Opportunity Metrics

In Acumatica ERP 2023 R1, new opportunity-related sales metrics have been added to help the company's sales team work more effectively and easily.

In previous versions of Acumatica ERP, only one form helped sales personnel to analyze the results of the sales team's work with opportunities. Starting in Acumatica ERP 2023 R1, a user can use the following forms to analyze opportunity metrics:

- The [Opportunity Summary by Close Date](#) (CR3040SM) inquiry form
- The [Opportunity Summary by Salesperson](#) (CR3041SM) inquiry form
- The [Opportunity List](#) (CR3042SM) inquiry form
- The [Opportunity Summary by Class](#) (CR3040PT) pivot table

In an out-of-the-box instance of Acumatica ERP, links to the [Opportunity Summary by Close Date](#) and [Opportunity Summary by Class](#) forms can be found in the **Reports** category of the **Opportunities** workspace of Acumatica ERP. The user can view the [Opportunity Summary by Salesperson](#) form in the side panel of the [Opportunity Summary by Close Date](#) form. To access the [Opportunity List](#) form, a user can use the [Opportunity Summary by Close Date](#) or [Opportunity Summary by Salesperson](#) form. The inquiry forms and pivot table show existing opportunities grouped by various criteria, as described in detail in the following sections.

Opportunity Summary by Close Date Inquiry Form

By using the [Opportunity Summary by Close Date](#) (CR3040SM) form, a user can find information for the specified date range about the amounts of the opportunities in the different stages, with the amounts broken down by the year, quarter, and month of the estimated closing dates of the opportunities. (See the following screenshot.)

Opportunity Summary by Close Date

CUSTOMIZATION TOOLS

Start Date: 7/1/2023 End Date: 12/31/2023 Opportunity Stage: Opportunity Class: Business Account Class: Contact Class: Owner:

Drag column header here to configure filter

Year	Quarter	Month	Weighted Amount	Prospect Amount	Nurture Amount	Qualification Amount	Development Amount	Solution Amount	Proof Amount	Negotiation Amount	Won Amount
2023	3	July	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	3	August	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	3	September	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	4	October	324.56	6,500.00	0.00	0.00	0.00	0.00	0.00	405.70	0.00
2023	4	November	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	4	December	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Figure: The Opportunity Summary by Close Date inquiry form

The Selection area of the inquiry form (see Item 1 in the previous screenshot) includes a date range, which must be specified. By default, the date range covers the previous and current quarter, based on the business date. Optionally, a user can narrow the range of the opportunities whose amounts are shown in the table by specifying additional criteria: the opportunity stage, opportunity class, business account class, contact class, and owner.

The table contains the estimated close dates of opportunities for each year, quarter, and month (Item 2) and the opportunities' amounts in the different stages (Item 4). The estimated amounts of opportunities that may be closed at the current stage are calculated by the system in the **Weighted Amount** column (Item 3).

For any selected row on the [Opportunity Summary by Close Date](#) form, the side panel displays the *Opportunity Summary by Salesperson (CR3041SM)* form, which is described in the following section.

In the table, each aggregated amount of the opportunities is also a link. If a user clicks this link, the system opens a new browser tab showing the list of opportunities that meet the specified criteria on the **Drilldown** tab of the *Opportunity List (CR3042SM)* form.

Opportunity Summary by Salesperson Inquiry Form

On the *Opportunity Summary by Salesperson (CR3041SM)* form, a user can find information about the amount and number of the opportunities grouped by owners and stages. (See the following screenshot.)

Owner	Weighted Amount	Prospect Count	Prospect Amount	Nurture Count	Nurture Amount	Qualification Count	Qualification Amount	Development Count	Development Amount	Solution Count	Solution Amount	Proof Count	Proof Amount	Negotiation Count	Negotiation Amount	Won Count	Won Amount
Alberto J.	0.00	1	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Anna Joh.	0.00	1	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
David Ch.	0.00	1	8,500.00	0	0.00	0	0.00	1	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Harry Sawyer	324.56	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	0.00	1	405.70	0	0.00
Casey Bu.	0.00	1	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Sum:	324.56		8,500.00		0.00		0.00		0.00		0.00		0.00		405.70		0.00

Figure: The Opportunity Summary by Salesperson inquiry form

A user can narrow the information that is shown in the table (see Item 2 in the previous screenshot) by specifying the needed settings in the Selection area (Item 1).

To see the list of the opportunities that are included in any selected row of the table, a user can click the value in the **Owner** column (Item 3), which is also a link. The list of the opportunities with that owner opens on the **Drilldown** tab of the *Opportunity List (CR3042SM)* form.

At the bottom of the *Opportunity Summary by Salesperson* form, the system calculates the total sum of the opportunity amounts for every stage and for the weighted amount of the opportunities (Item 4).

Opportunity List Inquiry Form

On the *Opportunity List (CR3042SM)* inquiry form, a user can find the list of opportunities included in the selected row of the [Opportunity Summary by Close Date](#) (CR3040SM) or *Opportunity Summary by Salesperson (CR3041SM)* forms on the **Drilldown** tab (see Item 3 in the following screenshot). The list of all opportunities is displayed on the **All Records** tab (Item 2).

The screenshot shows the 'Opportunity List' form. At the top, there are filter fields for 'Opportunity Class', 'Business Account Class', 'Contact Class', 'Opportunity Stage' (set to 'Prospect'), and 'Owner'. Below these are tabs for 'ALL RECORDS' and 'DRILLDOWN'. A table of opportunities is displayed with columns: Opportunity ID, Subject, Account Name, Status, Stage, Currency, Total, Estimated Close Date, and Class ID. The table contains five rows of data. A red box highlights the filter area (Item 1), and another red box highlights the table (Item 4).

Opportunity ID	Subject	Account Name	Status	Stage	Currency	Total	Estimated Close Date	Class ID
000005	Repairs and training for Lake Cafe	Lake Cafe	Open	Prospect	USD	117.50	1/4/2023	SERVICE
000004	A juicer with the installation and training for...	Lake Cafe	New	Prospect	USD	2,337.50	1/4/2023	PROJECT
000003	Assorted teas for Lake Cafe	Lake Cafe	Open	Prospect	USD	4,539.41	1/4/2023	PRODUCT
000002	Inquiry for exotic fruits	Russell Brennan Keane	Open	Prospect	USD	0.00	1/4/2023	PRODUCT
000001	A juicer for HM's Bakery & Cafe	HM's Bakery & Cafe	New	Prospect	USD	3,500.00	1/7/2023	PROJECT

Figure: The Opportunity List form

A user can narrow the opportunities in the table (Item 4) by specifying the needed settings in the Selection area (Item 1).

For any row that a user selects on either tab of the form, the side panel displays the [Opportunities](#) (CR304000) form (Item 5). (For more information about side panels, see [Side Panels on Forms](#).)

The screenshot shows the 'Opportunity List' form with the side panel open for Opportunity ID 000005. The side panel displays the 'Opportunities' form with fields for Opportunity ID, Status, Class ID, Stage, Estimated Close Date, Business Account, Location, Contact, Owner, and Subject. It also shows a 'Manual Amount' section with fields for Amount, Discount, Tax Total, and Total.

Opportunity ID	Subject	Account Name
000005	Repairs and training for Lake Cafe	Lake Cafe
000004	A juicer with the installation and training for...	Lake Cafe
000003	Assorted teas for Lake Cafe	Lake Cafe
000002	Inquiry for exotic fruits	Russell Brennan Keane
000001	A juicer for HM's Bakery & Cafe	HM's Bakery & Cafe

Figure: The side panel of the Opportunity List form

On the *Opportunity List* form, several columns contain links to other forms, as follows:

- **Opportunity ID** column: Opens the [Opportunities](#) form
- **Class ID** column: Opens the [Opportunity Classes](#) (CR209000) form
- **Business Account** column (hidden by default): Opens the [Business Accounts](#) (CR303000) form

Opportunity Summary by Class Pivot Table

A user can use the *Opportunity Summary by Class* (CR3040PT) pivot table to find the aggregated information of the number and amount of all opportunities. This information is grouped by opportunity class, owner, opportunity status, and opportunity stage (Item 2 in the following screenshot), and contained the automatically calculated total amount and count for each row. The information shown in the table can be narrowed by using the following filter settings (Item 1):

- *Status*
- *Stage*
- *Class*

- *Estimated Close Date*
- *Owner*

Opportunity Summary by Class

SAVE AS SAVE CUSTOMIZE TOOLS ▾

1

Status

Stage

Class

Estimated C

Owner

2

Stage

Development

Negotiation

Prospect

Test

Total

Class

Owner

Status

Count

Amount

Count

Amount

Count

Amount

Count

Amount

Count

Amount

Product Sales

Is Empty

Open

Bill Owen

David Chubb

New

New

New

Open

1

0.00

6

2

1

1

43.54

4,539.41

215.00

8,500.00

6

4

1

1

43.54

5,443.11

215.00

8,500.00

0.00

Project Sales

Is Empty

New

2

5,837.50

2

5,837.50

Service Sales

Is Empty

Open

1

117.50

1

117.50

Figure: The Opportunity Summary by Class pivot table

For more information, see the [Managing Pivot Tables](#).

Access Rights

A user can have full access to the forms (that is, *Delete* access rights) if one of the following user roles has been assigned to the user account:

- *Administrator*
- *AcumaticaSupport*
- *CR Marketing Manager*
- *CR Sales & Marketing Admin*
- *CR Sales Representative*

If the *CR Viewer* user role has been assigned to a user account, the user has view-only access to the forms (that is, the user account has *View Only* access rights).

For users with the *CR Support Admin* or *CR Support Representative* user role assigned to their user account, the access rights to the forms have not been set (that is, the user account has *Not Set* access rights).

Additional Information

For details about the opportunity-related sales metrics, see [Managing Opportunity Reports](#).

CRM: Selection of Related Entities in Emails, Activities, Tasks, and Events

In previous versions of Acumatica ERP, a user had to use a dialog box to associate an email or activity with a related entity. Starting in Acumatica ERP 2023 R1, a user can quickly associate any email or activity with a related entity on the respective data entry form without opening a dialog box.



In this topic, *activity* is used broadly to describe any sort of activity defined in Acumatica ERP, such as an event on the [Event](#) (CR306030) form, a task on the [Task](#) (CR306020) form, or another type of activity on the [Activity](#) (CR306010) form.

The following sections provide more information about this improvement and the related changes that have been made to forms.

Changes to the Data Entry Forms of Emails and Activities

On the [Event](#) (CR306030), [Task](#) (CR306020), [Email Activity](#) (CR306015), and [Activity](#) (CR306010) forms, the **Related Entity Type** (see Item 1 in the following screenshot) and **Related Entity** (Item 2) boxes have been added.

The screenshot displays the 'Event' form in Acumatica ERP. The 'DETAILS' tab is active. The 'Summary' section shows a meeting with the manager on 12/16/2022 from 10:00 AM to 10:30 AM. The 'Related Entity Type' field (Item 1) is set to 'Contact' and the 'Related Entity' field (Item 2) is set to 'Ally Ralts'. The 'Open' button (Item 3) is located to the right of the 'Related Entity' field. The form also includes fields for Location, Time Zone, Start Time, End Time, Status, Priority, Category, Time Spent, Overtime, Billable Time, and Billable Overtime.

Figure: An event with a related entity

In the **Related Entity Type** box, a user can select any of the following types of related entities: *AP Document, Appointment, AR Invoice/Memo, Business Account, Campaign, Case, Contact, Customer, Employee, Equipment, Expense Receipt, GL Batch, Landed Cost Document, Lead, Marketing List, Mass Email, Opportunity, Payroll Employee, Project Issue, Project Quote, Purchase Order, Purchase Receipt, Request for Information, Route Document, Sales Order, Sales Quote, Service Contract, Service Order, Shipment, SO Shipment Picking Worksheet, Subcontract, Submittal, User, and Vendor.*

If the user selects the type of the related entity, the **Related Entity** box becomes available and required. The related entity can be selected from the list of available records, which is narrowed to only records of the selected type of the related entity. To open the selected related entity in a new browser tab, a user can click the Open button (item 3) to the right of the box.

If a user changes the related entity type, the **Related Entity** box is cleared, and the user needs to select a related entity of the newly selected type.

Changes to Mobile App Screens

In the Acumatica mobile app, the **Related Entity Type** and **Related Entity** boxes have been added to the *Event*, *Task*, *Email*, and *Activity* screens of the mobile app, as shown in the following screenshot. The boxes are unavailable for editing.

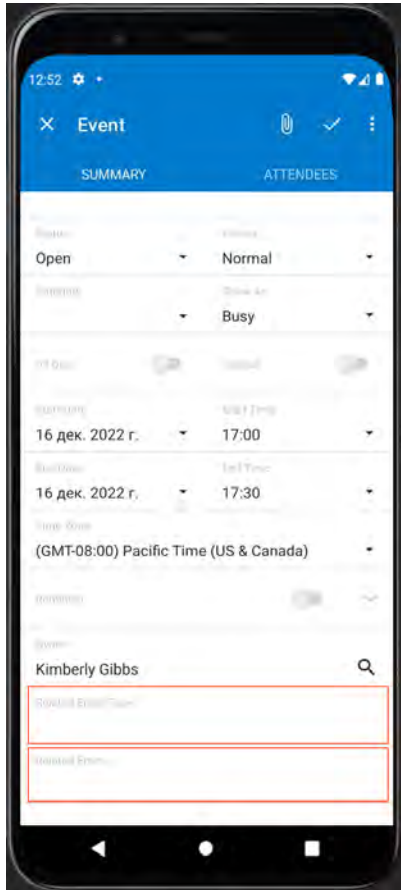


Figure: The Related Entity Type and Related Entity boxes on the Event screen

CRM: Other Improvements

Acumatica ERP 2023 R1 introduces the improvement to the customer relationship management (CRM) functionality that is described below.

Changes to the Length of Identifiers for CRM Entities

In previous versions of Acumatica ERP, although a numbering sequence on the [Numbering Sequences](#) (CS201010) form had a limit of 15 characters, the length of identifiers for some CRM entities without segmented keys had a limit of 10 characters.

Starting in Acumatica ERP2023, the length of a record's ID may have up to 15 characters on the following forms:

- [Cases](#) (CR306000)
- [Marketing Lists](#) (CR204000)
- [Marketing Campaigns](#) (CR202000)
- [Mass Emails](#) (CR308000)
- [Opportunities](#) (CR304000)
- [Sales Quotes](#) (CR304500)

Also, the maximum length of the project quote ID on the [Project Quotes](#) (PM304500) form has been increased and now may consist of up to 15 characters.

Documentation: Improvements in User Guides

In Acumatica ERP 2023 R1, multiple improvements have been made to the content and structure of the guides that make up the documentation, as described in the following sections.

Customer Relationship Management Guide

The following changes and enhancements have been made in the Customer Relationship Management guide:

- The Managing Opportunity Reports chapter has been added, in which users will learn about opportunity-related sales metrics.
- The Managing Marketing Reports and Managing the Support Report chapters have been significantly updated.

Getting Started Guide

In the Managing Your Tasks and Events chapter, the Task Management topic has been significantly updated with regard to describing options of creation and tracking tasks.

Contract Management Guide

The Contract Management guide has been reworked and now it has the following structure:

- The Implementing the Contract Functionality chapter. In the General Information topic of this chapter, the diagram of the contract lifecycle has been reworked.
- The Setting Up and Activating Contracts chapter.
- The Managing Contracts chapter, in which a new topic about the related reports and inquiries has been added.
- The Usage of Contracts chapter.
- The Billing Contracts chapter.

Order Management Guide

In the Order Management guide, the Predefined Sales Order Types chapter has been reworked and moved to the Implementation guide. For details about order types, see [Sales Order Types: General Information](#).

Field Services: Performance Improvements

Previously, the performance of Acumatica ERP was significantly affected by the cache extensions used by the field service processes integrated with other Acumatica ERP functional areas. These cache extensions stored data in separate database tables, which caused unnecessary joins that increased the complexity of the queries used in the system and, therefore, slowed the performance of the application.

In Acumatica ERP 2023 R1, this issue has been solved. More than 100 database columns of 19 extension tables have been moved from the field service extension tables to their parent tables in other functional areas, which has removed the negative impact on system performance.

The list of the moved columns and the details about the upgrade procedure can be found in the [Application Code: Performance Improvements](#) topic of the current document as well as in the Release Notes for Developers 2023 R1 document.

Finance: AR Aging by Project Reports

In previous versions of Acumatica ERP, it was not possible to generate a report and print a list of AR aging documents and AR aging customer balances grouped by project.

In Acumatica ERP 2023 R1, the following new reports are available in the system if the *Projects* group of features is enabled on the [Enable/Disable Features](#) (CS100000) form:

- [AR Aging by Project](#) (AR631200) report
- [AR Aged Period-Sensitive by Project](#) (AR630600) report

In the out-of-the-box system, links to both of these reports are included in the **Reports** category of the **Receivables** workspace.

The [AR Aging by Project](#) report displays outstanding AR documents or customer balances on the specified date. The documents and balances are divided into aging periods. A user can run this report in the following formats:

- *Detailed*: Displays an overview of the outstanding customer documents.
- *Summary*: Displays an overview of the outstanding customer balances.
- *Detailed with Retainage*: Displays an overview of outstanding documents and their unreleased retainage on the **Age as of Date** that the user has specified on the [AR Aging by Project](#) report form for the calculation of document balances and aging categories.

The [AR Aged Period-Sensitive by Project](#) report displays outstanding AR documents or customer balances at the end date of the particular financial period. The documents and balances are divided into aging periods or financial periods. A user can run this report in the following formats:

- *Detailed*: Displays an overview of the outstanding customer documents.
- *Summary*: Displays an overview of the outstanding customer balances.

The following sections describe each of the formats of these reports in more detail.

AR Aging by Project (Detailed) Report

The following screenshot shows the [AR Aging by Project](#) (AR631200) report in the *Detailed* format. Notice that the title ends with *(Detailed)* to indicate the format.

AR Aging by Project (Detailed)											
Company/Branch:		PRODWHOLE		Customer:		INDSACRAME		Page:		1 of 1	
Project:		X		Aged On:		11/22/2022		Date:		1/13/2023 1:44 AM	
Project ID		Description		Project Manager		User:		admin admin			
X		Non-Project Code.									
Statement Cycle		Last Statement Date		Description							
EOM		12/31/2013		End of Month							
Customer		Customer Name									
INDSACRAME		Sacramento Industrial Supply									
Doc. Type	Ref. Nbr.	Customer Ref./ Orig. Ref. Nbr.	Branch	Doc. Date	Due Date	Current	1 - 10 Days	11 - 30 Days	31 - 60 Days	Over 60 Days	Balance
Invoice	AR010573	INDSACRAME20	PRODWHOL	1/31/2022	3/2/2022	0.00	0.00	0.00	0.00	108,305.44	108,305.44
Invoice	AR010665	INDSACRAME20	PRODWHOL	2/2/2022	3/4/2022	0.00	0.00	0.00	0.00	62,999.97	62,999.97
Invoice	AR010695	INDSACRAME20	PRODWHOL	2/28/2022	3/30/2022	0.00	0.00	0.00	0.00	108,305.44	108,305.44
Customer Total:						0.00	0.00	0.00	0.00	279,610.85	279,610.85
Statement Cycle Total:						0.00	0.00	0.00	0.00	279,610.85	279,610.85
Project Total:											279,610.85
Company Total:											279,610.85

Figure: AR Aging by Project (Detailed) report

The detailed [AR Aging by Project](#) report provides the user with an overview of the outstanding customer documents. For a particular project, the report shows how open activities are aged. In the detailed report, the documents are grouped by the project specified in AR documents, by the statement cycle, and by the

customer. Grouping by the customer provides the user with information about available open AR documents with outstanding customer balances on aging periods.

The [AR Aging by Project](#) report contains the following information:

- The total amounts for each aging bucket and for the **Balance** column of each customer of the project (the **Customer Total** box)
- The total amounts for each aging bucket and for the **Balance** column of the current statement cycle (the **Statement Cycle Total** box)
- The sum of the **Balance** totals of all statement cycles in a project (the **Project Total** box)
- The sum of the **Balance** totals of all projects (the **Company Total** box)

AR Aging by Project (Summary) Report

The following screenshot shows the [AR Aging by Project](#) (AR631200) report in the *Summary* format. Notice that the title ends with (*Summary*) to indicate the format.

AR Aging by Project (Summary)

Company/Branch:PRODWHOLE

Customer:INDSACRAME

Project:X

Aged On:11/22/2022

Page:1 of 1

Date:1/13/2023 1:50 AM

User:admin admin

Project ID	Description	Project Manager					
X	Non-Project Code.						
Statement Cycle	Last Statement Date	Description					
EOM	12/31/2013	End of Month					

Customer	Customer Name	Current	1 - 10 Days	11 - 30 Days	31 - 60 Days	Over 60 Days	Balance
INDSACRAME	Sacramento Industrial Supply	0.00	0.00	0.00	0.00	279,610.85	279,610.85
Statement Cycle Total:		0.00	0.00	0.00	0.00	279,610.85	279,610.85
Project Total:							279,610.85
Company Total:							279,610.85

Figure: AR Aging by Project (Summary) report

The summary [AR Aging by Project](#) report provides the user with an overview of the outstanding customer balances. For a particular project, the report shows how open activities are aged. In this format of the report, the customer balances are grouped by the project specified for AR documents and by the statement cycle.

The summary [AR Aging by Project](#) report contains the following information:

- The total amounts for each aging bucket and for the **Balance** column of the current statement cycle (the **Statement Cycle Total** box)
- The sum of the **Balance** totals of all statement cycles in a project (the **Project Total** box)
- The sum of the **Balance** totals of all projects (the **Company Total** box)

AR Aging by Project (Detailed with Retainage) Report

The following screenshot illustrates the [AR Aging by Project](#) (AR631200) report in the *Detailed with Retainage* format. Notice that the title ends with (*Detailed with Retainage*) to indicate the format.

AR Aging by Project (Detailed with Retainage)

Company/Branch: PRODWHOLE

Customer: INDSACRAME
Aged On: 11/22/2022Page: 1 of 1
Date: 1/13/2023 2:53 AM
User: admin admin

Project:	X	Customer:	INDSACRAME	Created On:	11/22/2022	Created By:	ADMIN				
Project ID		Description	Project Manager								
X		Non-Project Code.									
Statement Cycle	Last Statement Date		Description								
EOM	12/31/2013		End of Month								
Customer	Customer Name					Balance					
INDSACRAME	Sacramento Industrial Supply					279,610.85					
Doc. Type	Ref. Nbr.	Customer Ref./ Orig. Ref. Nbr.	Branch	Doc. Date	Due Date	Current	1 - 10 Days	11 - 30 Days	31 - 60 Days	Over 60 Days	Unreleased Retainage
Invoice	AR010573	INDSACRAME20	PRODWHOL	1/31/2022	3/2/2022	0.00	0.00	0.00	0.00	108,305.44	0.00
Invoice	AR010665	INDSACRAME20	PRODWHOL	2/2/2022	3/4/2022	0.00	0.00	0.00	0.00	62,999.97	0.00
Invoice	AR010695	INDSACRAME20	PRODWHOL	2/28/2022	3/30/2022	0.00	0.00	0.00	0.00	108,305.44	0.00
Customer Total:						0.00	0.00	0.00	0.00	279,610.85	0.00
Statement Cycle Total:						0.00	0.00	0.00	0.00	279,610.85	0.00
Project Total:						0.00					
Company Total:						0.00					

Figure: AR Aging by Project (Detailed with Retainage) report

In this format, the report provides the user with an overview of outstanding documents and their unreleased retainage on the **Age as of Date** that the user has specified on the *AR Aging by Project* report form for the calculation of document balances and aging categories. For a particular project, the report shows how open activities are aged. The documents of the report are grouped by the project assigned to AR documents, by the statement cycle, and by the customer.

The report contains the following information:

- The total amounts for each aging bucket and for the **Unreleased Retainage** column of each customer of the project (the **Customer Total** box)
- The total amounts for each aging bucket and for the **Unreleased Retainage** column of the current statement cycle (the **Statement Cycle Total** box)
- The sum of the **Unreleased Retainage** totals of all statement cycles in the project (the **Project Total** box)
- The sum of the **Unreleased Retainage** totals of all projects (the **Company Total** box)
- The sum of aging bucket total amounts in the **Customer Total** section (the **Balance** box in the **Customer** header)
- The sum of customer balances of the current project (the **Balance** box in the **Project** header)

AR Aged Period-Sensitive by Project (Detailed) Report

The following screenshot illustrates the *AR Aged Period-Sensitive by Project* (AR630600) report in the *Detailed* format. Notice that the title ends with *(Detailed)* to indicate the format.

AR Aged Period-Sensitive by Project (Detailed)

Company/Branch: PRODWHOLE

Project: X

Customer: ABCSTUDIOS

Financial Period: 11-2022

Aged On: 11/30/2022

Page: 1 of 1

Date: 3/2/2023 7:43 AM

User: admin

Project ID	Description	Project Manager								
X	Non-Project Code.									
Statement Cycle	Last Statement Date	Description								
EOM	12/31/2013	End of Month								
Customer	Customer Name									
ABCSTUDIOS	ABC Studios Inc									

Doc. Type	Ref. Nbr.	Customer Ref./ Orig. Ref. Nbr.	Doc. Date	Due Date	Past Due					Balance
					Current	1 - 10 Days	11 - 30 Days	31 - 60 Days	Over 60 Days	
Invoice	AR010721	ABCSTUDIOS2C	2/17/2022	3/19/2022	0.00	0.00	0.00	0.00	154,750.00	154,750.00
Customer Total:					0.00	0.00	0.00	0.00	154,750.00	154,750.00
Statement Cycle Total:					0.00	0.00	0.00	0.00	154,750.00	154,750.00
Project Total:										154,750.00
Company Total:					0.00	0.00	0.00	0.00	154,750.00	154,750.00

Figure: AR Aged Period-Sensitive by Project (Detailed) report

The detailed [AR Aged Period-Sensitive by Project](#) report provides the user with an overview of the outstanding customer documents. At the end date of the particular financial period, the report shows how open activities are aged. In the detailed [AR Aged Period-Sensitive by Project](#) report, the system groups the documents by the project assigned to AR documents, by the statement cycle, and by the customer. Grouping by customer provides the user with information about available open AR documents with outstanding customer documents on aging or financial periods.

The report contains the following information:

- The total amounts for each aging bucket and for the **Balance** column of each customer of the project (the **Customer Total** box)
- The total amounts for each aging bucket and for the **Balance** column of the current statement cycle (the **Statement Cycle Total** box)
- The sum of the **Balance** totals of all statement cycles in the project (the **Project Total** box)
- The sum of the **Balance** totals of all projects (the **Company Total** box)

AR Aged Period-Sensitive by Project (Summary) Report

The following screenshot illustrates the [AR Aged Period-Sensitive by Project](#) (AR630600) report in the *Summary* format. Notice that the title ends with (*Summary*) to indicate the format.

AR Aged Period-Sensitive by Project (Summary)

Company/Branch: PRODWHOLE

Project: X

Customer: ABCSTUDIOS

Financial Period: 11-2022

Aged On: 11/30/2022

Page: 1 of 1

Date: 3/2/2023 8:04 AM

User: admin admin

Project ID	Description	Project Manager						
X	Non-Project Code.							
Statement Cycle	Last Statement Date	Description						
EOM	12/31/2013	End of Month						
Customer	Customer Name	Past Due					Over 60 Days	Balance
		Current	1 - 10 Days	11 - 30 Days	31 - 60 Days			
ABCSTUDIOS	ABC Studios Inc	0.00	0.00	0.00	0.00		154,750.00	154,750.00
Statement Cycle Total:		0.00	0.00	0.00	0.00		154,750.00	154,750.00
Project Total:								154,750.00
Company Total:		0.00	0.00	0.00	0.00		154,750.00	154,750.00

Figure: AR Aged Period-Sensitive by Project (Summary) report

The summary [AR Aged Period-Sensitive by Project](#) report provides the user with an overview of the outstanding customer balances. At the end date of a particular financial period, the report shows how open activities are aged. In the summary report, the documents are grouped by a project assigned to AR documents and by a statement cycle.

The report contains the following information:

- The total amounts for each aging bucket and for the **Balance** column of the current statement cycle (the **Statement Cycle Total** box)
- The sum of the **Balance** totals of all statement cycles in the project (the **Project Total** box)
- The sum of the **Balance** totals of all projects (the **Company Total** box)

Finance: Changes in Copying Default Subaccounts for GL Transactions

Quite often, accountants have a dedicated subaccount to be used with the balance sheet accounts, while for the income and expense accounts, they are using different subaccounts depending on the configuration of subaccounts. In such a case, they usually select the **Use Default Subaccount** check box for all their balance accounts on the [Chart of Accounts](#) (GL202500) form and specify this subaccount in the **Default Subaccount** box on the [General Ledger Preferences](#) (GL102000) form.

In previous versions of Acumatica ERP, when a user was creating a GL transaction on the [Journal Transactions](#) (GL301000) form, the system suggested the balance sheet subaccount for all the lines with the *Asset* or *Liability* account. The problem was that when the user was entering a transaction on the [Journal Transactions](#) form and a line with an *Income* or *Expense* account followed a line with a balance sheet account, the system incorrectly inserted the subaccount for the *Income* or *Expense* account: It suggested the default subaccount for the balance sheet account, even though this subaccount was not supposed to be used with this account.

To address this issue, the following changes have been introduced in Acumatica ERP 2023 R1:

- For the first line on the **Details** tab of the [Journal Transactions](#) form, the system inserts the subaccount specified in the **Default Subaccount** box on the [General Ledger Preferences](#) form if the specified account has the **Use Default Subaccount** check box selected on the [Chart of Accounts](#) form. If the **Use Default Subaccount** check box is cleared for the account, the **Subaccount** column on the [Journal Transactions](#) form is empty.
- For the second line and all lines after it, the system does either of the following:
 - If the specified account has the **Use Default Subaccount** check box selected on the [Chart of Accounts](#) form, inserts the subaccount specified in the **Default Subaccount** box on the [General Ledger Preferences](#) form.
 - If the specified account has the **Use Default Subaccount** check box cleared, copies the value from the previous line if the accounts in the current and in the previous line are both temporary accounts (*Income* or *Expense*) or are both permanent accounts (*Asset* or *Liability*).

The following example explains in detail how these changes are processed by the system.

Usage Example

Suppose that in the system, the 10200 account (a balance sheet account) has the **Use Default Subaccount** check box selected on the [Chart of Accounts](#) (GL202500) form and the 000-000 subaccount is specified as the default one on the [General Ledger Preferences](#) (GL102000) form.

Further suppose that the 000-INC subaccount has been set up for accounts with the *Income* type.

When a user enters a GL transaction on the [Journal Transactions](#) (GL301000) form, the system inserts subaccounts as follows:

1. On the **Details** tab, the user adds a new line and selects the 10200 account. The system inserts the 000-000 subaccount in the **Subaccount** box, because this subaccount is the default one and the **Use Default Subaccount** check box is selected for the 10200 account. These settings are illustrated in the following screenshot.

Journal Transactions
GL

← ↻ ⏺ ⏴ ⏵ ⏶ ⏷ ⏸ ⏹ ⏺ RELEASE ...

Module: GL * Branch: PRODWHOLE - Products Wholesale Type: Normal
 Batch Number: <NEW> * Ledger: ACTUAL - Actual Ledger Orig. Batch Number:
 Status: Balanced Currency: USD 1.00 VIEW BASE Debit Total: 0.00
 * Transaction D... 10/26/2022 ☐ Auto Reversing ☐ Reversing Entry Credit Total: 0.00
 * Post Period: 10-2022 ☐ Create Tax Transactions

Description:

DETAILS APPROVALS

VIEW SOURCE DOCUMENT RECLASSIFICATION HISTORY

	* Branch	* Account	Description	* Subaccount	Ref. Number	Quantity	UOM	Debit Amount	Credit Amount	Transaction Description	Non Billable
✓	PRODWHOLE	10200	Company Checking Account - HQ	000-000		0.00		0.00	0.00		<input type="checkbox"/>

Figure: The default subaccount inserted into the first line

- The user adds the second line to the transaction and selects the 40000 account. This account has the **Use Default Subaccount** check box cleared and the system leaves the **Subaccount** column empty, as shown in the following screenshot.

Journal Transactions
GL

← ↻ ⏺ ⏴ ⏵ ⏶ ⏷ ⏸ ⏹ ⏺ RELEASE ...

Module: GL * Branch: PRODWHOLE - Products Wholesale Type: Normal
 Batch Number: <NEW> * Ledger: ACTUAL - Actual Ledger Orig. Batch Number:
 Status: Balanced Currency: USD 1.00 VIEW BASE Debit Total: 2,350.00
 * Transaction D... 10/26/2022 ☐ Auto Reversing ☐ Reversing Entry Credit Total: 2,350.00
 * Post Period: 10-2022 ☐ Create Tax Transactions

Description:

DETAILS APPROVALS

VIEW SOURCE DOCUMENT RECLASSIFICATION HISTORY

	* Branch	* Account	Description	* Subaccount	Ref. Number	Quantity	UOM	Debit Amount	Credit Amount	Transaction Description	Non Billable
✓	PRODWHOLE	10200	Company Checking Account - HQ	000-000		0.00		2,350.00	0.00		<input type="checkbox"/>
✓	PRODWHOLE	40000	Sales Revenue			0.00		0.00	2,350.00		<input type="checkbox"/>

Figure: The Subaccount column left empty for the second line

Because the 40000 account has the *Income* type, the user should manually select the 000-INC subaccount for it.

- The user adds the third line to the transaction and selects the 40010 account. This account also has the **Use Default Subaccount** check box selected, but it has the same type as the account in the second line (*Income*). This is why the system inserts the subaccount from the previous line (000-INC) into the **Subaccount** column for this line, as shown in the following screenshot.

Journal Transactions
GL

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

RELEASE

Module: GL * Branch: PRODWHOLE - Products Wholesale Type: Normal
 Batch Number: <NEW> * Ledger: ACTUAL - Actual Ledger Orig. Batch Number:
 Status: Balanced Currency: USD 1.00 VIEW BASE Debit Total: 2,350.00
 * Transaction D... 10/26/2022 ☐ Auto Reversing ☐ Reversing Entry Credit Total: 2,350.00
 * Post Period: 10-2022 ☐ Create Tax Transactions

Description:

DETAILS APPROVALS

	* Branch	* Account	Description	* Subaccount	Ref. Number	Quantity	UOM	Debit Amount	Credit Amount	Transaction Description	Non Billable
	PRODWHOLE	10200	Company Checking Account - HQ	000-000		0.00		2,350.00	0.00		<input type="checkbox"/>
	PRODWHOLE	40000	Sales Revenue	000-INC		0.00		0.00	2,220.00		<input type="checkbox"/>
	PRODWHOLE	40010	Sales - Freight	000-INC		0.00		0.00	130.00		<input type="checkbox"/>

Figure: The subaccount from the previous line inserted by default

Finance: Generation of Batches on the Prepare Payments Form

In previous versions of Acumatica ERP, if a user was creating payments on the [Prepare Payments](#) (AP503000) form and selected a payment method for which the **Create Batch Payment** check box was selected on the [Payment Methods](#) (CA204000) form, the user was redirected to the [Process Payments / Print Checks](#) (AP505000) form. On this form, the user had to enter or confirm the **Next Check Number** setting for the payments before they were added to the batch. This redirection took additional time to load and process the data.

In Acumatica ERP 2023 R1, a shorter workflow is provided as an additional way for vendor payments to be mass processed. Now users can quickly generate a batch of payments from the [Prepare Payments](#) (AP503000) form. On this form, the system generates payments, combines them into a payment batch, and opens the batch on the [Batch Payments](#) (AP305000) form for further processing.

To support this functionality, the UI changes described in the sections below have been introduced.

Changes to the Payment Methods Form

On the [Payment Methods](#) (CA204000) form, the **Quick Batch Generation** column has been added to the **Allowed Cash Accounts** tab, as shown in the following screenshot.

The screenshot shows the 'Payment Methods' form for 'USACH - U.S. ACH'. The 'Allowed Cash Accounts' tab is active, displaying a table of cash accounts. The 'Quick Batch Generation' column is highlighted with a red box. The table includes columns for Cash Account, Description, Branch, Use in AP, AP/PR Default, AP/PR Suggest Next Number, AP/PR Last Reference Number, Batch Last Reference Number, Quick Batch Generation, Use in AR, AR Default, AR Default For Refund, AR Suggest Next Number, and AR Last Reference Number.

Cash Account	Description	Branch	Use in AP	AP/PR Default	AP/PR Suggest Next Number	AP/PR Last Reference Number	Batch Last Reference Number	Quick Batch Generation	Use in AR	AR Default	AR Default For Refund	AR Suggest Next Number	AR Last Reference Number
10200	Company Checking Account	PRODWHOLE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	099986		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Figure: The Quick Batch Generation column on the Payment Methods form

This column appears on the tab if the **Create Batch Payments** option button is selected on the **Settings for Use in AP** tab on the same form. If a user adds a new cash account to a payment method for which the **Create Batch Payments** option button is selected, the **Quick Batch Generation** check box will be selected by default for the added cash account.

If the user selects this check box for a cash account, the **Quick Batch Generation** option button will be available and selected by default on the [Prepare Payments](#) (AP503000) form.

If the **Quick Batch Generation** check box is selected for a cash account, the system verifies that the **AP/PR - Suggest Next Number** check box is selected and a number is specified in the **AP/PR Last Reference Number** column.

Changes to the Cash Accounts Form

On the [Cash Accounts](#) (CA202000) form, the **Quick Batch Generation** column has been added to the **Payment Methods** tab, as shown in the following screenshot.

Cash Accounts
10200 - Company Checking Account

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

* Cash Account: 10200 - Company Checking Account
☒ Active
 Account: 10200 - Company Checking Account
 Subaccount: 000-000 - Default
 Branch: PRODWOLE - Products Whole
 Currency: USD
 Curr. Rate Type:
 External Ref. Number:
 Description: Company Checking Account

☐ Clearing Account
☒ Requires Reconciliation
☐ Restrict Visibility with Branch
☐ Match Bank Transactions to Batch Payments
☐ Use for Corporate Cards

Reconciliation Numbering Sequence: CARECON - CA Reconciliation
 Bank ID:
 Statement Import Service: PX Objects.CA.OFXStatementer

PAYMENT METHODS CLEARING ACCOUNTS ENTRY TYPES REMITTANCE SETTINGS SIGNATURE

Payment Method	Use in AP	Use in PR	AP/PR Default	AP/PR - Suggest Next Number	AP/PR Last Reference Number	Batch Last Reference Number	Quick Batch Generation	Use in AR	AR Default	AR Default For Refund	AR - Suggest Next Number	AR Last Reference Number
CHECK	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2953		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PMT03607
FEDWIRE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ACH		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
STRIPE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USACH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	099986		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Figure: The Quick Batch Generation column on the Cash Accounts form

If a new payment method that has the **Create Batch Payments** option button selected is linked to a cash account, the check box in the **Quick Batch Generation** column will be selected by default for the added payment method. If the user selects this check box for a payment method, the **Quick Batch Generation** check box will be available and selected by default on the [Prepare Payments](#) (AP503000) form.

If this check box is selected for a payment method, the system verifies that the **AP/PR - Suggest Next Number** check box is selected and a number is specified in the **AP/PR Last Reference Number** column.

Changes to the Prepare Payments Form

On the [Prepare Payments](#) (AP503000) form, the **Quick Batch Generation** check box has been added to the Selection area, as shown in the following screenshot.

Prepare Payments

PROCESS PROCESS ALL

* Branch: PRODWOLE - Products Wholesale
 * Payment Method: USACH
 * Cash Account: 10200 - Company Checking Account
 Payment Date: 2/3/2023
 * Post Period: 02-2023
 Currency: USD 1.00

Vendor Class:
 Vendor:
 Project:

☐ Pay Date Within 7 Days
☐ Due Date Within 7 Days
☐ Cash Discount Expires Within 7 Days
☐ Always Take Cash Discount

GL Balance: 98,632,202.72
 Available Bal: 98,639,647.67
 Selection Total: 1,511.23
 Number of Rec: 5
☒ Quick Batch Generation

DOCUMENTS TO PAY EXCEPTIONS

Document Type	Reference Nbr.	Vendor ID	Line Nbr.	Vendor Name	Inventory ID	Location	Pay Separately	Retainage Document	Original Document	Pay Date	Due Date	Cash Discount Date	Date	Amount Paid	Cash Discount Taken	Balance
BILL	003234	AASERVICES	0	AA Services		MAIN	<input type="checkbox"/>	<input type="checkbox"/>		2/12/2023	2/12/2023	2/12/2023	1/13/2023	450.00	0.00	0.00
BILL	003236	AASERVICES	0	AA Services		MAIN	<input type="checkbox"/>	<input type="checkbox"/>		2/8/2023	2/8/2023	2/8/2023	1/9/2023	700.00	0.00	0.00
BILL	003241	AAVENDOR	1	Goto Vendor Inc.		MAIN	<input type="checkbox"/>	<input type="checkbox"/>		3/5/2023	3/5/2023	3/5/2023	2/3/2023	890.00	0.00	0.00
BILL	003241	AAVENDOR	2	Goto Vendor Inc.		MAIN	<input type="checkbox"/>	<input type="checkbox"/>		3/5/2023	3/5/2023	3/5/2023	2/3/2023	45.00	0.00	0.00
BILL	003243	AAVENDOR	0	Goto Vendor Inc.		MAIN	<input type="checkbox"/>	<input type="checkbox"/>		2/24/2023	2/24/2023	2/24/2023	1/25/2023	1,390.00	0.00	0.00
Debit Adj.	003242	AAVENDOR	0	Goto Vendor Inc.		MAIN	<input type="checkbox"/>	<input type="checkbox"/>		2/1/2023	2/24/2023	2/24/2023	2/1/2023	73.77	0.00	0.00
Prepayment	003244	AAVENDOR	0	Goto Vendor Inc.		MAIN	<input type="checkbox"/>	<input type="checkbox"/>		2/3/2023	2/3/2023	2/3/2023	2/3/2023	200.00	0.00	0.00

Figure: The Quick Batch Generation check box on the Prepare Payments form

This check box appears on the form and is available if both of the following conditions are met:

- On the [Payment Methods](#) (CA204000) form, the **Create Batch Payments** option button is selected on the **Settings for Use in AP** tab for the payment method.

- On the [Payment Methods](#) form, the **Quick Batch Generation** check box is selected on the **Allowed Cash Accounts** tab for the corresponding cash account.

On the [Prepare Payments](#) form, a new batch payment is created automatically and payments are generated if all of the following conditions are met:

- On the [Prepare Payments](#) form, the **Quick Batch Generation** check box is selected.
- On the [Payment Methods](#) form, a number is specified and can be incremented in the **AP/PR Last Reference Number** column, and the **AP/PR - Suggest Next Number** check box is selected for the cash account.
- At least one generated payment has the *Pending Print* status.

All payments generated with the *Pending Print* status are added to the created batch payment that opens on the [Batch Payments](#) (AP305000) form. For each payment added to the batch, the system generates a **Payment Ref.** number by incrementing the number specified in the **AP Last Reference Number** column on the [Payment Methods](#) form for the payment method.

Upgrade Notes

After an upgrade to Acumatica ERP 2023 R1, the **Quick Batch Generation** check box will be added to the settings of the payment methods that have the **Create Batch Payments** option button selected on the **Settings for Use in AP** tab of the [Payment Methods](#) (CA204000) form. This check box will be cleared by default.

Additional Information

For details on how to quickly generate a batch of payments, see [To Quickly Prepare a Batch of Payments](#).

Finance: Generation of Financial Periods on Company Activation

In previous versions of Acumatica ERP, if a user generated financial calendars on the [Master Financial Calendar](#) (GL201000) form, the system did not generate periods for a new year in inactive companies. If the company was subsequently activated, these financial periods were missing in the company calendar and could not be restored or generated again.

Also, even if the company with missing periods remained inactive, the user could not enable the *Centralized Period Management* feature on the [Enable/Disable Features](#) (CS100000) form. This was because the system detected that the number of periods in the company calendar was greater than or equal to the number of periods in the master calendar; this validation is performed for active and inactive companies.

Starting in Acumatica ERP 2023 R1, the management of financial periods in the general ledger has been streamlined so that users can perform the following operations:

- Create and post transactions in the financial periods that were generated when the company was inactive, even if the *Multiple Calendar Support* feature is disabled
- Enable the *Centralized Period Management* feature even if there is an inactive company whose calendar contains fewer periods than the master calendar
- Disable the *Multiple Calendar Support* feature even if there is an inactive company whose calendar contains fewer periods than the master calendar

In the fixed asset subledger, if the *Multiple Calendar Support* feature is disabled, the periods and years generated on the [Generate Book Calendars](#) (FA501000) form are not generated for inactive companies.

Changes to the Companies Form

On the [Companies](#) (CS101500) form, the **Active** check box has been removed. Instead, the **Status** box has been added, as shown in the following screenshot.

Companies

NOTES FILES (1) CUSTOMIZATION TOOLS

CAPITAL - Revision Two Capital

←

📄

📄

↶

+

🗑️

📄 ▾

⏪

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⏴

⏵

⋮

Company ID:

CAPITAL

🔍

Company Name:

Revision Two Capital

Company Type:

Without Branches ▾

Status:

Active

COMPANY DETAILS DELIVERY SETTINGS EMPLOYEES LEDGERS GLACCOUNTS VISUAL APPEARANCE COMPANY GROUPS

MAIN CONTACT

Account Name:

Revision Two Capital

Attention:

Email:

✉️

Web:

🔗

Phone 1:

206-555-1212

Phone 2:

Fax:

BASE CURRENCY SETTINGS (SHARED)

Base Currency ID:

USD - U.S. Dollars

✎

TAX REGISTRATION INFO

* Legal Name:

Revision Two Capital

Tax Registration ID:

Tax Exemption Number:

Entity Usage Type:

Default

☐ 1099-MISC Reporting Entity

MAIN ADDRESS

ADDRESS LOOKUP

Address Line 1:

11235 SE 6th St.

Address Line 2:

Suite 200

City:

Bellevue

* Country:

US - United States of America

🔍

✎

State:

WA - WASHINGTON

🔍

✎

Postal Code:

98004

Carrier Facility:

CONFIGURATION SETTINGS

Access Role:

BRANCH CAP - Revision Two Capital

🔍

Default Country:

US - United States of America

🔍

✎

Localization:

None ▾

MISCELLANEOUS SETTINGS (SHARED)

Quantity Decimal Places:

2

Price/Cost Decimal Pla...

2

Weight UOM:

KG

✎

Linear UOM:

CM

🔍

✎

Volume UOM:

LITER

✎

Phone Mask:

Figure: The Status box on the Companies form

The **Status** box is read-only and displays the status of the company—*Active* (default) or *Inactive*.

On the More menu of the [Companies](#) form, the following commands, which are shown in the following screenshot, have been added:

- **Activate** (Item 1): Activates the selected company. This command is available if the company's status is *Inactive*. When the user clicks this command, the system starts the process of activating the company. If the *Multiple Calendar Support* feature is disabled on the [Enable/Disable Features](#) (CS100000) form, the system compares the set of financial periods in the master calendar and the set of financial periods of the current company. If these sets are different, the system generates the missing periods in the company that is being activated.
- **Deactivate** (Item 2): Deactivates the selected company. This command is available if the company's status is *Active*.

The screenshot shows the 'Companies' form in Acumatica ERP. The company name is 'CAPITAL - Revision Two Capital'. The 'More' menu is open, displaying two options: 'Activate' (labeled 1) and 'Deactivate' (labeled 2). The form is divided into several sections: 'COMPANY DETAILS' (Company ID: CAPITAL, Name: Revision Two Capital, Type: Without Branches), 'MAIN CONTACT' (Account Name: Revision Two Capital, Email, Web, Phone 1: 206-555-1212), 'MAIN ADDRESS' (Address Line 1: 11235 SE 6th St., Address Line 2: Suite 200, City: Bellevue, Country: US - United States of America, State: WA - WASHINGTON, Postal Code: 98004), 'BASE CURRENCY SETTINGS (SHARED)' (Base Currency ID: USD - U.S. Dollars), 'TAX REGISTRATION INFO' (Legal Name: Revision Two Capital, Tax Registration ID, Tax Exemption Number, Entity Usage Type: Default), 'CONFIGURATION SETTINGS' (Access Role: BRANCH CAP - Revision Two Capital, Default Country: US - United States of America, Localization: None), and 'MISCELLANEOUS SETTINGS (SHARED)' (Quantity Decimal Places: 2, Price/Cost Decimal Places: 2, Weight UOM: KG, Linear UOM: CM, Volume UOM: LITER, Phone Mask).

Figure: The updated More menu on the Companies form

Changes in General Ledger

In Acumatica ERP 2023 R1, changes have been made to the generation of financial periods in the general ledger. If the *Multiple Calendar Support* feature is disabled on the [Enable/Disable Features](#) (CS100000) form and a user activates a company with the *Inactive* status by clicking **Activate** on the More menu of the [Companies](#) (CS101500) form, the system performs the following actions:

1. Compares the set of financial periods in the master calendar with the set of financial periods of the current company. Only the IDs of the periods are compared (the starting and ending dates of each of the included periods are not compared). If these sets are different, the system generates the missing periods for the company.
2. For each newly generated period in the company calendar, sets the period's status and the state of the **Closed in AP**, **Closed in AR**, **Closed in IN**, **Closed in CA**, and **Closed in FA** check boxes depending on whether the *Centralized Period Management* feature is enabled:
 - If the feature is enabled, the period's status and the state of the **Closed in <Subledger>** check boxes are copied from the corresponding settings of the master calendar.
 - If the feature is disabled, the system does one of the following, based on the newly generated period:
 - If it is the first added period, the period's status and the state of the **Closed in <Subledger>** check boxes are copied from earliest period of the company calendar.
 - If it the period has been added to the middle of the company calendar (that is, there are periods before and after the added period), the period's status and the state of the **Closed in <Subledger>** check boxes are copied from the period just before the added period.

- If the period is the last period in the company calendar, the added period is assigned the *Inactive* status and the **Closed in <Subledger>** check boxes are cleared.

The following additional changes have been implemented in the general ledger:

- Changed validation of periods in the company calendar if the *Centralized Period Management* feature is enabled.

Now the system does not validate that each company has a period in the company calendar that corresponds to the same period in the master calendar. Also, the system does not validate that if a period exists in one company, the period with the same **Period ID** exists in all other companies.

The system now makes sure that if a period exists in a company calendar and the same period exists in another company's calendar, these periods have the same status and the same states of the **Closed in <Subledger>** check boxes.

- Exclusion of inactive companies from validation if the *Multiple Calendar Support* feature is disabled.

If a user disables the *Multiple Calendar Support* feature on the [Enable/Disable Features](#) form, the system makes sure that each period in the master calendar has a matching period in a company calendar for all companies. This validation is no longer performed for companies that have the *Inactive* status.

Changes in Fixed Assets

The following changes have been implemented in fixed assets:

- Periods are not generated in the posting book for inactive companies.

If the *Multiple Calendar Support* feature is disabled on the [Enable/Disable Features](#) (CS100000) form and a user generates new periods on the [Generate Book Calendars](#) (FA501000) form, periods are not generated for companies with the *Inactive* status.



If the *Multiple Calendar Support* feature is enabled, on the [Generate Book Calendars](#) form, calendars can be generated separately for each company, and the user can decide for which company new periods will be generated.

- When a company is activated, the calendar of the company's posting book is synchronized with the general ledger calendar.

If the *Multiple Calendar Support* feature is disabled on the [Enable/Disable Features](#) form and a user activates a company by clicking **Activate** on the More menu on the [Companies](#) (CS101500) form, the system performs the following actions:

- Checks whether each period in the general ledger calendar has a matching period in the calendar of the company's posting book. Only the IDs of the periods are compared.
- Generates the missing periods in the company's posting book.
- If the *Multiple Calendar Support* feature is disabled, the calendar of the company's posting book is validated against the general ledger calendar.

If a user disables the *Multiple Calendar Support* feature on the [Enable/Disable Features](#) form, the system checks whether each period of an active company in the company's posting book has a matching period in the general ledger. Only the IDs of the periods are compared. If this condition is not met, the system displays an error message.

Changes in Import Scenarios

To prevent activation of a company without the generation of missing periods, an administrative user is prohibited from changing the *IsActive* field for an import scenario that uses the *Companies* screen on the [Import Scenarios](#) (SM206025) form or on the UI. As a result, import scenarios that modify the state of the **Active** check box on the [Companies](#) (CS101500) form will no longer work in Acumatica ERP 2023 R1.

For such import scenarios, the administrative user should use *<Action: Activate>* or *<Action: Deactivate>* in the **Field/Action Name** column on the **Mapping** tab of the [Import Scenarios](#) form.

Finance: GL Consolidation by Company

In previous versions of Acumatica ERP, a company could be selected as a consolidation source only if it had the *Without Branches* type. If the company had the *With Branches Requiring Balancing* or *With Branches Not Requiring Balancing* type, its branches could be specified as sources of consolidation but the company itself could not.

Starting in Acumatica ERP 2023 R1, companies of the *With Branches Requiring Balancing* and *With Branches Not Requiring Balancing* types can also be selected as consolidation sources on the [Consolidation](#) (GL103000) form.

Changes to the Consolidation Form

On the [Consolidation](#) (GL103000) form, the following UI changes have been introduced:

- The **Source Branch** column has been replaced with the **Source Company/Branch** column (Item 1 in the screenshot below). If the user clicks the magnifier button in this column, a lookup table is opened.
- The new lookup table that opens from the **Source Company/Branch** column (Item 2) displays a list of companies and branches according to the following rules:
 - Both active and inactive companies are displayed.
 - Companies of all types are displayed: *Without Branches*, *With Branches Not Requiring Balancing*, and *With Branches Requiring Balancing*.
 - Branches of companies with the *With Branches Requiring Balancing* type are displayed (as is the case for the branches in the screenshot below).



Branches of companies with the *With Branches Not Requiring Balancing* type are NOT shown in the lookup box.

The lookup box has the following columns:

- Company/Branch:** For a company, the company ID is shown; for a branch, the company ID followed by the branch ID is shown. By default, the list is sorted by this column in ascending order.
- Name:** The name of the company or branch.

The following screenshot illustrates these UI changes.

Figure: UI changes on the Consolidation form



Before performing consolidation, on the [Access Rights by Screen](#) (SM201020) form, the administrative user should make sure that the user that will sign in to the source tenant—that is, the user specified in the **Username** column in the table of the [Consolidation](#) form—has the *Delete* access rights to the following forms in the **Hidden** node:

- *Consolidation Accounts* (GL103001)
- *Consolidation Branches* (GL103002)
- *Consolidation Ledgers* (GL103003)
- *Consolidation Companies* (GL103004)
- *Consolidation Data* (GL509001)

Each of these forms is used for data storage during consolidation. The forms are not accessible on the UI, but a user can open them by entering the form ID in the browser address line. For example, the user could enter the following: `http://localhost/[AcumaticaInstance]/Main?CompanyID=[Tenant]&ScreenId=GL103001`. By default, these forms are not associated with any access roles. That is, any user has full access to them.

Changes to the Import Consolidation Data Form

On the [Import Consolidation Data](#) (GL509000) form, the **Source Branch** column has been replaced with the **Source Company/Branch** column, as shown in the following screenshot.

Import Consolidation Data TOOLS ▾

⏮ ⏪ PROCESS ⏩ ⏭ ⏮ ⏭ ⏭

<input type="checkbox"/> Consolidation Branch	Consolidation Ledger	Consolidation Unit	URL	Source Ledger	Source Company/Branch	Last Post Period	Last Consolidation Date
> <input type="checkbox"/> AZENTITY	CONSOL	AZ_Subsiary	http://localhost/	ACTUALAZ	SWEETAZ - HEADOFFICE		

Figure: UI change on the Import Consolidation Data form

The column displays the company or branch selected on the [Consolidation](#) (GL103000) form—the company ID if a company is selected or the company ID followed by a branch ID if a branch is selected.

If a company of any type is specified in the **Source Company/Branch** column on the [Consolidation](#) form, the consolidation process that is run on the [Import Consolidation Data](#) form will consolidate the balances of all the branches, of this company.

Upgrade Notes

After an upgrade to Acumatica ERP 2023 R1, on the [Access Rights by Screen](#) (SM201020) form, all users will have the *Not Set* access rights to the following forms in the **Hidden** node:

- *Consolidation Accounts* (GL103001)
- *Consolidation Branches* (GL103002)
- *Consolidation Ledgers* (GL103003)
- *Consolidation Companies* (GL103004)
- *Consolidation Data* (GL509001)

Finance: Migrated AR and AP Documents with Unreleased Retainage

In previous versions of Acumatica ERP, users could create migrated AR invoices and AP bills with unreleased retainage only by using import scenarios. This process could significantly complicate the migration process.

Starting in Acumatica ERP 2023 R1, migrated AR invoices and AP bills with unreleased retainage can be created directly on the [Invoices and Memos](#) (AR301000) and [Bills and Adjustments](#) (AP301000) forms, respectively.

Changes to the Invoices and Memos Form

On the [Invoices and Memos](#) (AR301000) form, the **Apply Retainage** check box in the Summary area is now available for documents created in migration mode, as shown in the following screenshot.

The screenshot shows the 'Invoices and Memos' form for 'Invoice AR010726 - Artcages'. The 'Summary' area includes fields for Type, Reference Nbr, Status, Date, Post Period, Customer Ord, Customer, Location, Currency, Terms, Due Date, Cash Discount, and Project/Contract. The 'Apply Retainage' checkbox is checked and highlighted with a red box. The 'Balance' field shows 300.00. The 'DETAILS' tab is selected, showing a table with columns for Inventory ID, Warehouse, Transaction Desc, Quantity, UOM, Unit Price, Ext. Price, Ext. Cost, Discount Percent, Discount Amount, Manual Discount, Discount Code, Retainage Percent, Retainage Amount, and Amount. The table contains one row for 'PRODWHOLE' with a retainage amount of 89.00.

Figure: A migrated invoice with applied retainage

A user can change the status of the **Apply Retainage** check box for an unreleased AR invoice.



To turn on migration mode in accounts receivable, an administrative user should select the **Activate Migration Mode** check box on the **General** tab (**Posting Settings** section) of the [Accounts Receivable Preferences](#) (AR101000) form.

The following screenshot illustrates a released migrated AR invoice with unreleased retainage.

Invoices and Memos
Invoice AR010726 - Artcages

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

Type: Invoice Customer: ARTCAGES - Artcages Detail Total: 801.00
 Reference Nbr: AR010726 Location: MAIN - Primary Location Discount Total: 0.00
 Status: Open Currency: USD 1.00 VIEW BASE VAT Taxable T...: 0.00
 Date: 10/26/2022 Terms: 30D - 30 Days VAT Exempt T...: 0.00
 Post Period: 10-2022 Due Date: 11/25/2022 Apply Retainage Tax Total: 0.00
 Customer Ord. Cash Discount: 11/25/2022 Pay by Line Balance: 300.00
 Project/Contract: X - Non-Project Code Amount: 801.00
 Description: Cash Discount: 0.00

DETAILS FINANCIAL ADDRESSES TAXES COMMISSIONS APPROVALS DISCOUNTS RETAINAGE APPLICATIONS

Default Retainage Percent: 0.000000 Unreleased Retainage: 89.00 Tax on Retainage: 0.00
 Total Amount: 890.00 Released Retainage: 0.00 Discount on Retainage: 0.00
 Original Retainage: 89.00 Unpaid Retainage: 89.00
 Paid Retainage: 0.00

Type Reference Nbr Date Post Period Status Amount Balance Payment Method Customer Order Nbr Description

Figure: A released migrated invoice with unreleased retainage

Changes to the Bills and Adjustments Form

On the [Bills and Adjustments](#) (AP301000) form, the **Apply Retainage** check box in the Summary area is now available for documents created in migration mode, as shown in the following screenshot.

Bills and Adjustments
Bill 003228 - Arktak Networks

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

REMOVE HOLD

Type: Bill Vendor: ARKIAK - Arktak Networks Detail Total: 1,204.35
 Reference Nbr: 003228 Location: MAIN - Primary Location Discount Total: 0.00
 Status: On Hold Currency: USD 1.00 VIEW BASE VAT Taxable Total: 0.00
 Date: 10/26/2022 Terms: 30D - 30 Days VAT Exempt Total: 0.00
 Post Period: 10-2022 Due Date: 11/25/2022 Apply Retainage Tax Total: 0.00
 Vendor Ref: arktak0089 Cash Discount: 11/25/2022 Pay by Line With Tax: 0.00
 Description: Balance: 900.00
 Cash Discount: 0.00

DETAILS FINANCIAL TAXES APPROVALS DISCOUNTS RETAINAGE

VIEW DEFERRALS ADD PO RECEIPT ADD PO RECEIPT LINE ADD PO ADD PO LINE LINK LINE

Branch	Inventory ID	Transaction Desc.	Quantity	UOM	Unit Cost	Ext. Cost	Discount Amount	Retainage Percent	Retainage Amount	Amount	Account	Description
PRODWHOLE			0.00		0.00	1,295.00	0.00	7.000000	90.65	1,204.35	60000	Purchase expense

Figure: A migrated bill with applied retainage

A user can change the status of the **Apply Retainage** check box for an unreleased AP bill.



To turn on migration mode in accounts payable, an administrative user should select the **Activate Migration Mode** check box on the **General** tab (**Posting Settings** section) of the [Accounts Payable Preferences](#) (AP101000) form.

The following screenshot illustrates a released migrated AP bill with unreleased retainage.

Bills and Adjustments

Bill 003228 - Arktak Networks

Type: **Bill** Vendor: **ARKTAK - Arktak Networks** Detail Total: **1,204.35**

Reference Nbr.: **003228** Location: **MAIN - Primary Location** Discount Total: **0.00**

Status: **Open** Currency: **USD 1.00 VIEW BASE** VAT Taxable Total: **0.00**

Terms: **30D - 30 Days** VAT Exempt Total: **0.00**

Date: **10/26/2022** * Due Date: **11/25/2022** ☒ Apply Retainage Tax Total: **0.00**

Post Period: **10-2022** * Cash Discount... **11/25/2022** ☐ Pay by Line With. Tax: **0.00**

Vendor Ref.: **arktak0089** Balance: **900.00**

Description:

Amount: **1,204.35**

Cash Discount: **0.00**

DETAILS FINANCIAL TAXES APPROVALS DISCOUNTS **RETAINAGE** APPLICATIONS

Default Retainage Perc...	0.000000	Unreleased Retainage:	90.65	Tax on Retainage:	0.00
Total Amount:	1,295.00	Released Retainage:	0.00	Discount on Retainage:	0.00
Original Retainage:	90.65	Unpaid Retainage:	90.65		
		Paid Retainage:	0.00		

ID	D	Type	Reference Nbr.	Date	Post Period	Status	Amount	Balance	Payment Method	Vendor Ref.	Description
----	---	------	----------------	------	-------------	--------	--------	---------	----------------	-------------	-------------

Figure: A released migrated bill with unreleased retainage

Additional Information

For details on creating document with unreleased retainage in migration mode, see [Processing Documents in Migration Mode](#).

Finance: Redesign of the ACH Plug-In

Acumatica ERP 2023 R1 introduces the new U.S. Automated Clearing House (ACH) plug-in, which can be used instead of the predefined export scenarios. The easy-to-configure plug-in provides enhanced flexibility to adjust ACH export settings to meet customers' and banks' requirements. These improvements are described further in this topic.

Redesigned ACH Plug-In

To export AP payments to an Automated Clearing House (ACH) file, two preconfigured export scenarios are used in Acumatica ERP—*Export AP Payment to ACH* and *Export AP Payment to ACH Balanced*. However, if ACH export settings needed to be modified to meet the requirements of a customer or its bank, the following issues could occur:

- Although export scenarios could be updated, the system could not verify that a scenario was configured correctly and could not display relevant error messages. This led to errors in the export configuration and to the inability to export an ACH file in the required format.
- When a batch of payments was exported on the [Batch Payments](#) (AP305000) form, the system could not detect errors and display them in a user-friendly way. As a result, users had to contact the Acumatica support team for help.
- The preconfigured export scenarios and data providers in Acumatica ERP do not support addenda records—ACH records of type 7 containing additional descriptions of each payment transaction. Even if users managed to add the records of type 7 to an exported file, they could not use the *ACHExportProvider* and *ACHBalancedProvider* data providers to correctly calculate the value of the **Entry/Addenda Count** field of the ACH file.
- It was difficult for users to adjust the export of the **Company Identification** field of the ACH file. This adjustment required changes in both the data provider settings and the export scenario settings.
- It was not possible to define the type of a vendor's account (*Saving* or *Checking*) that should be debited as a result of the transaction processing.
- It was not possible to adjust the logic of calculating the **File ID Modifier** field of the ACH file to start the numbering from A-Z, 0-9 instead of the predefined 0-9, A-Z.

To address these issues, in Acumatica ERP 2023 R1, a new *U.S. ACH* plug-in has been implemented, which can be used instead of the predefined export scenarios. The plug-in is more user-friendly and easier to configure. The plug-in provides the flexibility to adjust ACH export settings according to known variations in customers' and banks' requirements for exported U.S. ACH files, including the following capabilities:

- An offset record can be added to an ACH file.
- Addenda records can be added to an ACH file, and rules to generate the addenda description can be configured.
- The mapping of ACH fields can be changed. For example, the *Company Identification* remittance detail can be configured to be exported to the **Immediate Origin** field of the ACH file.
- The format of the **File ID Modifier** field of the ACH file can be adjusted (either 0-9, A-Z or A-Z, 0-9).
- The value in the **Service Class Code** field of the ACH file can be set to 200 (mixed debits and credits) or 220 (credits only). Also, the value in the **Standard Entry Class Code** field can be set to CCD (corporate credit or debit) or PPD (pre-arranged payment or deposit).

The use of the ACH plug-in provides enhanced validations, including control of the ACH export settings and verification of data validity.

Acumatica ERP 2023 R1 provides the following enhancements related to this functionality:

- On the [Vendors](#) (AP303000) form, a user can specify the type of a bank account (*Checking* or *Saving*) in the ACH payment details of each vendor. The type of the vendor account will be considered when the system generates the transaction code for records of type 6 in the ACH file.

- The system can generate addenda text automatically for each payment included in a batch on the [Batch Payments](#) form. Users can view and correct the addenda text for payments in the batch before the batch is exported.

The following sections describe the UI changes that have been made to support this functionality.

Changes to the Payment Methods Form

On the **Settings for Use in AP** tab of the [Payment Methods](#) (AP204000) form, the following changes have been introduced to support the *U.S. ACH* plug-in:

- The *U.S. ACH Plug-In* option has been added to the list in the **Export Method** box (see Item 1 in the following screenshot).
- The **Control Type** (Item 2) and **Default Value** (Item 3) columns have been added to the **Payment Method Details** table. The same columns have been added to the table on the **Remittance Settings** tab.

The following screenshot illustrates the UI changes on the **Settings for Use in AP** tab of the [Payment Methods](#) form.

Payment Methods
USACH - U.S. ACH

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

Payment Method ID: USACH ☒ Use in AP ☐ Set Payment Date to Bank Transaction Date
☒ Active ☒ Use in AR ☒ Require Remittance Information for Cash Account
 Means of Payment: Direct Deposit
 Direct Deposit File For...
 * Description: U.S. ACH

ALLOWED CASH ACCOUNTS SETTINGS FOR USE IN AR **SETTINGS FOR USE IN AP** REMITTANCE SETTINGS PLUG-IN SETTINGS

ADDITIONAL PROCESSING **EXPORT SETTINGS**

☐ Print Checks
☒ Create Batch Payments
☐ Not Required

Export Method: U.S. ACH Plug-In
 Export Scenario: U.S. ACH Plug-In
☐ Release Batch Payment Before Export

Payment Method Details

ID	Description	Required	Sort Order	Entry Mask	Validation Reg. Exp.	Control Type	Default Value
1	Beneficiary Account Nbr.	<input checked="" type="checkbox"/>	0		^d{1,17}\$	Text	
2	Beneficiary Name	<input checked="" type="checkbox"/>	1		^([w] s){0,22}\$	Text	
3	Bank Routing Number (ABA)	<input checked="" type="checkbox"/>	2	000000000	^d{9,9}\$	Text	
4	Bank Name	<input type="checkbox"/>	3		^([w] s){0,22}\$	Text	
5	Account Type	<input type="checkbox"/>	4			Account Type List	Checking Account

Figure: UI changes on the Settings for Use in AP tab

The **Plug-in Settings** tab, which is shown in the screenshot below, has been added to the [Payment Methods](#) form. The tab appears on the form if *U.S. ACH Plug-In* is selected in the **Export Method** box on the **Settings for Use in AP** tab. The table displays only the parameters of the selected plug-in depending on the state of the **Show All Settings** check box.

The records in the table can be displayed in the following modes:

- Compact (default): If the **Show All Settings** check box is cleared, the table displays only the settings that most frequently require adjustment according to the known variations in customers' and banks' requirements.

- Full: If the **Show All Settings** check box is selected, the table shows all the plug-in settings that can be specified.

The following screenshot illustrates the **Plug-in Settings** tab of the *Payment Methods* form with the **Show All Settings** check box selected.

Payment Methods
USACH - U.S. ACH

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

← ↻ ↺ + ✖ ⌵ ⌵ ⌵ ⌵

* Payment Method ID: USACH ☒ Use in AP ☐ Set Payment Date to Bank Transaction Date
☒ Active ☒ Use in AR ☒ Require Remittance Information for Cash Account
 Means of Payment: Direct Deposit ☐ Use in PR
 * Description: U.S. ACH

ALLOWED CASH ACCOUNTS SETTINGS FOR USE IN AR SETTINGS FOR USE IN AP REMITTANCE SETTINGS **PLUG-IN SETTINGS**

☒ Show All Settings

Parameter	Value
General Settings	
> Include Offset Record	<input checked="" type="checkbox"/>
Include Addenda Records	<input checked="" type="checkbox"/>
*Payment-Related Information	= Concat('Inv',[Bill.InvoiceNbr], '\')
File Header Record	
*Immediate Destination	Routing Number (ABA)
*Immediate Origin	Company Identification
*File ID Modifier	A-Z, 0-9
*Immediate Destination Name	Bank Name
*Immediate Origin Name	Beneficiary Name
Batch Header Record	
*Service Class Code	220 - Credits Only
*Company Name	Company Short Name
Company Discretionary Data	
*Company Identification	Company Identification

Figure: The Plug-in Settings tab on the Payment Methods form

Changes to the Batch Payments Form

On the *Batch Payments* (AP305000) form, the **Payment-Related Info (Addenda)** column has been added to the table, as shown in the following screenshot.

Batch Payments
000100 - 10200 Company Checking Account

NOTES FILES CUSTOMIZATION TOOLS

← ↻ ↺ + ✖ ⌵ ⌵ ⌵ ⌵ **EXPORT** ...

Reference Nbr.: 000100 Cash Account: 10200 - Company Checking Acc Batch Total: 450.00
 Status: Balanced Payment Method: USACH Batch Seq. Number:
 * Batch Date: 1/13/2023 Bank:
 Document Ref.: File Export Time:
 Description:

↻ × ADD PAYMENTS ⌵ ⌵

Type	Reference Nbr.	Vendor	Location	Payment Date	Status	Currency	Description	Payment Method	Payment Ref.	Payment Amount	Payment Related Info (Addenda)
> Payment	002061	AASERVICES	MAIN	1/4/2023	Printed	USD		USACH	099984	450.00	Inv*00tfd\

Figure: The Payment-Related Info (Addenda) column on the Batch Payments form

This column is displayed if the following conditions are met for the payment method selected on the form:

- The payment method has the *U.S. ACH Plug-In* option selected in the **Export Method** box on the **Settings for Use in AP** tab of the *Payment Methods* (CA204000) form.
- The **Include Addenda Records** check box is selected for the payment method on the **Plug-in Settings** tab of the *Payment Methods* form.

The value in the **Payment-Related Info (Addenda)** column is generated automatically when an AP payment is added to a batch. The value is generated according to the formula specified in the **Payment-Related Information** box on the **Plug-in Settings** tab of the *Payment Methods* form.

A user can update the generated **Payment-Related Info (Addenda)** value manually for each AP payment before exporting the batch if the status of the batch is *On Hold* or *Balanced*.

When a batch of payment is exported on the *Batch Payments* form, the system performs multiple validations of ACH fields mapped to remittance settings.



It is not possible to export more than 36 different batches a day. This limitation is applied because every batch is exported to a separate ACH file and ACH limits the number of exported files related to the **File ID Modifier** field.

Upgrade Notes

During an upgrade to Acumatica ERP 2023 R1, the system will check whether an export scenario was previously selected in the **Export Method** box of the **Settings for Use in AP** tab for a payment method on the *Payment Methods* (CA204000) form. If that was the case, the **Export Method** box will have the *Export Scenario* option selected after the upgrade.

Additional Information

For details about the U.S. ACH plug-in and the settings needed to configure it, see *Setup of ACH Payment Processing* and *Settings of the U.S. ACH Plug-In*.

For instructions on adding a payment method for the U.S. ACH plug-in, see *To Add a Payment Method for the U.S. ACH Plug-In*.

Finance: Renamed Document Types in AP and AR

In previous versions of Acumatica ERP, some AP and AR document types were confusing, such as *Check*, which is actually a payment method. Also, some document types, such as *Customer Refund*, were too long to fit into the **Type** box.

To align the document types with business standards and make their appearance on the UI more user-friendly, multiple document types on AP and AR forms and reports have been renamed in Acumatica ERP 2023 R1.

Changes in Accounts Payable

In the accounts payable forms and reports, UI changes to the names of document types have been introduced.

The document types on the AP data entry forms have been renamed as follows.

Document Type in Previous Versions	New Document Type in 2023 R1
<i>Check</i>	<i>Payment</i>
<i>Voided Check</i>	<i>Voided Payment</i>
<i>Vendor Refund</i>	<i>Refund</i>
<i>Voided Vendor Refund</i>	<i>Voided Refund</i>
<i>Quick Check</i>	<i>Cash Purchase</i>
<i>Voided Quick Check</i>	<i>Voided Cash Purchase</i>

The document types shown in the **Doc. Type** box in the generated AP reports have been renamed as follows.

Document Type in Previous Versions	New Document Type in 2023 R1
<i>BILL</i>	<i>Bill</i>
<i>CRADJ</i>	<i>Credit Adj.</i>
<i>DRADJ</i>	<i>Debit Adj.</i>
<i>CHECK</i>	<i>Payment</i>
<i>PREPAY</i>	<i>Prepayment</i>
<i>REF</i>	<i>Refund</i>
<i>VOIDREF</i>	<i>Voided Refund</i>
<i>VOIDCK</i>	<i>Voided Payment</i>
<i>QCHECK</i>	<i>Cash Purchase</i>
<i>VOIDQCK</i>	<i>Voided Cash Purchase</i>

The *Quick Checks* (AP304000) form has been renamed to [Cash Purchases](#) (AP304000).

Changes in Accounts Receivable

In the accounts receivable forms and reports, the UI changes listed below have been introduced.

The document types on the AR data entry forms have been renamed as follows.

Document Type in Previous Versions	New Document Type in 2023 R1
<i>Customer Refund</i>	<i>Refund</i>
<i>Voided Customer Refund</i>	<i>Voided Refund</i>

The document types shown in the **Doc. Type** box in the generated AR reports have been renamed as follows.

Document Type in Previous Versions	New Document Type in 2023 R1
<i>INVOICE</i>	<i>Invoice</i>
<i>DEBIT MEMO</i>	<i>Debit Memo</i>
<i>CREDIT MEMO</i>	<i>Credit Memo</i>
<i>PAYMENT</i>	<i>Payment</i>
<i>PREPAYMENT</i>	<i>Prepayment</i>
<i>REFUND</i>	<i>Refund</i>
<i>VOIDREFUND</i>	<i>Voided Refund</i>
<i>VOIDPAY</i>	<i>Voided Payment</i>
<i>OVERDUE CHARGES</i>	<i>Overdue Charge</i>
<i>BALANCE WO</i>	<i>Balance WO</i>
<i>CREDIT WO</i>	<i>Credit WO</i>
<i>CASH SALE</i>	<i>Cash Sale</i>
<i>CASH RET</i>	<i>Cash Return</i>

Related Changes in Import Scenarios

Based on the broader name changes in accounts payable, changes have been made to the names of a predefined import scenario and data provider.

On the [Import Scenarios](#) (SM206000) form, the *ACU Import AP Quick Checks* import scenario has been renamed to *ACU Import AP Cash Purchases*.

On the [Data Providers](#) (SM206015) form, the *ACU Import AP Quick Checks* data provider has been renamed to *ACU Import AP Cash Purchases*.

Finance: Support of Plug-Ins for Credit Card Processing

In Acumatica ERP 2023 R1, the availability of the payment plug-in is now determined by whether the following features are enabled on the [Enable/Disable Features](#) (CS100000) form:

- *Authorize.Net Payment Plug-In*: Makes the Authorize.Net plug-in available
- *Stripe Payment Plug-In*: Makes the Stripe plug-in available
- *Custom Payment Plug-In*: Makes the ISV payment plug-in available, such as Repay or EBizCharge

The following screenshot displays the [Enable/Disable Features](#) form with the new features enabled. (The check boxes for these features are listed under **Integrated Card Processing**.)

The screenshot shows the 'Enable/Disable Features' form. At the top, there are tabs for 'CUSTOMIZATION' and 'TOOLS'. Below the tabs, there are buttons for 'MODIFY' and 'ENABLE'. The main area contains a list of features with checkboxes. A red box highlights the following checked items:

- ☒ Integrated Card Processing
 - ☒ Authorize.Net Payment Plug-In
 - ☒ Stripe Payment Plug-In
 - ☒ Custom Payment Plug-In
- ☒ Shipping Carrier Integration
 - ☒ FedEx
 - ☒ UPS
 - ☒ Stamps.com
 - ☒ ShipEngine
 - ☒ EasyPost
 - ☒ Custom
- ☒ Exchange Integration
- ☒ External Tax Calculation Integration
- ☐ Address Validation Integration
- ☐ Salesforce Integration
- ☐ HubSpot Integration
- ☐ Procore Integration
- ☒ Outlook Integration
- ☒ Workwave Route Optimization

Figure: The new features on the Enable/Disable Features form

If a feature is enabled, the corresponding payment plug-in becomes available for setup on the [Processing Centers](#) (CA205000) form and can be used in payments.

These features are also activated in licenses. If a payment plug-in is not active in the applied license, the check box with the corresponding feature is not visible on the [Enable/Disable Features](#) form.

The following screenshot illustrates the [Activate License](#) (SM201510) form with the *Authorize.Net Payment Plug-In* feature included and active.

Activate License CUSTOMIZATION TOOLS ▾

↶ ENTER LICENSE KEY UPLOAD LICENSE FILE UPDATE LICENSE DELETE LICENSE

Status: Valid

Valid From: 11/21/2018 12:00:00 AM

Number of Users: 1000

Valid To: 2/23/2023 12:00:00 AM

Version: 6.00

Number of Tenants: 400

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Activated	Feature Name
<input checked="" type="checkbox"/>	Advanced SO Invoices
<input checked="" type="checkbox"/>	General Ledger Allocation Templates
<input checked="" type="checkbox"/>	AP Document Recognition Service
<input checked="" type="checkbox"/>	Approval Workflow
<input checked="" type="checkbox"/>	Revenue Recognition by IFRS 15/ASC 606
<input checked="" type="checkbox"/>	Authorize.Net Payment Plug-In
<input checked="" type="checkbox"/>	Workflow Automation
<input checked="" type="checkbox"/>	Automatic Packaging
<input checked="" type="checkbox"/>	External Tax Calculation Integration
<input checked="" type="checkbox"/>	B2B Ordering
<input checked="" type="checkbox"/>	Bank Feed Integration
<input checked="" type="checkbox"/>	BigCommerce Connector
<input checked="" type="checkbox"/>	Blanket and Standard Purchase Orders
<input checked="" type="checkbox"/>	Multibranch Support

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Figure: The Authorize.Net Payment Plug-In feature activated in a license

For more information on setup of the Authorize.Net processing center, see [Integration with Authorize.Net Through the API Plug-in](#).

For more information on setup of the Stripe processing center, see [Setup of Stripe Processing Center](#).

Finance: Synchronization of Fixed Asset Periods with GL Periods

In the general ledger, each company has a set of financial periods that the system uses for posting GL transactions and transactions created by subledgers. Additionally, each company that uses fixed assets has a set of periods in the posting book, which are generated based on the same template as is used for the GL periods. Normally, the fixed asset subledger contains more periods than the general ledger does, because the system must have future periods that correspond to the dates on which the existing fixed assets will be depreciated. When the fixed assets subledger posts transactions to the GL, it uses the GL periods with the same IDs as in the posting book of the fixed asset subledger.

In previous versions of Acumatica ERP, if an administrative user changed user-defined periods in the financial calendar on the [Master Financial Calendar](#) (GL201000) form after the periods for the posting book were generated in fixed assets, the periods in the posting book might not match the company's financial periods in the general ledger. This led to the inability to post fixed asset transactions because the release process in fixed assets compares the start and end dates of the periods in the posting book with these dates for the GL periods and fails with an error if they do not match.

In Acumatica ERP 2023 R1, users can adjust fixed asset periods so that they match the updated GL periods. The system will recalculate and post depreciation transactions and other types of fixed asset transactions based on the amended periods.

Changes to the Book Calendars Form

On the [Book Calendars](#) (FA304000) form, the More menu with the **Synchronize FA Calendar with GL** command has been added, as shown in the following screenshot.

The screenshot displays the 'Book Calendars' form in Acumatica ERP. At the top, there are tabs for 'CUSTOMIZATION' and 'TOOLS'. Below the tabs, there are navigation buttons (K, <, >, >I, ...) and a 'Processing' status indicator. The form includes fields for '* Book:' (POS), '* Financial Year:' (2022), and '1/1/2022'. A 'Periods:' field shows '13'. There is a 'Synchronize FA Calendar with GL' button with a star icon. Below these fields is a table with columns: Financial Period ID, Start Date, End Date, and Description. The table lists 13 periods for 2022, from January to December, plus an Adjustment Period. The 'More' menu is open, showing the 'Synchronize FA Calendar with GL' option.

Financial Period ID	Start Date	End Date	Description
01-2022	1/1/2022	1/31/2022	January
02-2022	2/1/2022	2/28/2022	February
03-2022	3/1/2022	3/31/2022	March
04-2022	4/1/2022	4/30/2022	April
05-2022	5/1/2022	5/31/2022	May
06-2022	6/1/2022	6/30/2022	June
07-2022	7/1/2022	7/31/2022	July
08-2022	8/1/2022	8/31/2022	August
09-2022	9/1/2022	9/30/2022	September
10-2022	10/1/2022	10/31/2022	October
11-2022	11/1/2022	11/30/2022	November
12-2022	12/1/2022	12/31/2022	December
13-2022	12/31/2022	12/31/2022	Adjustment Period

Figure: The More menu on the Book Calendars form

For all companies, if a user clicks this command, the system checks if periods in the posting book are synchronized with the GL periods by comparing the start and end dates of the periods with the same ID, regardless of the status of the periods. If the periods are synchronized, the system returns an error message.

If the periods in the posting book and in the general ledger are not synchronized, the system checks if there are any released and unreleased transactions in the posting book and returns an error message if such transactions are found.

When synchronizing the periods, the system performs the following actions:

- Deletes years and periods in the fixed asset book starting from the period following the most recent period that was synchronized.
- Deletes the `FABookHistory` table for depreciable assets in the posting book starting from the period following the most recent period that was synchronized.
- In the fixed asset book, creates the years and periods that are missing in the posting book calendar, by copying the years and periods from the general ledger.
- Generates new fixed asset years based on the template until the last calendar year that used to be in the posting book before synchronization plus 1. If there is a gap between the start date of the first generated period and the end date of the last period copied from GL, the system sets the start date of this period to the end date of the previous period to ensure that there are no gaps in the calendar. The same action is performed for the years.
- Recalculates the `FABookBalance.DeprToPeriod` field for active and suspended depreciable assets for which the **Depr. to Period** setting on the **Balance** tab of the *Fixed Assets* (FA303000) form is later than or equal to the first out-of-sync period.
- Updates the asset's current period with the period that follows the most recent depreciation period (to handle the case when this period has been deleted).
- For active and suspended depreciable assets, calculates depreciation up to the current period if this period was not synchronized.

Changes to the Master Financial Calendar Form

The system displays the warning message shown in the following screenshot if both of the following conditions are met:

- The *Multiple Calendar Support* feature is enabled on the *Enable/Disable Features* (CS100000) form
- A user changes periods on the *Master Financial Calendar* (GL201000) form by selecting the **User-Defined Periods** check box, updating the periods in the table, and saving the changes

Master Financial Calendar

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

GENERATE CALENDAR

* Financial Year: 2024 User-Defined Periods

Start Date: 1/1/2024

Number of Periods: 13

Financial Period ID	Start Date	End Date	Length (Days)	Description	Adjustment Period
01-2024	1/1/2024	1/31/2024	31	January	<input type="checkbox"/>
02-2024	2/1/2024	2/28/2024	29	February	<input type="checkbox"/>
03-2024	3/1/2024	3/31/2024	31	March	<input type="checkbox"/>
04-2024	4/1/2024	4/30/2024	30	April	<input type="checkbox"/>
05-2024	5/1/2024	5/31/2024	31	May	<input type="checkbox"/>
06-2024	6/1/2024	6/30/2024	30	June	<input type="checkbox"/>
07-2024	7/1/2024	7/31/2024	31	July	<input type="checkbox"/>
08-2024	8/1/2024	8/31/2024	31	August	<input type="checkbox"/>
09-2024	9/1/2024	9/30/2024	30	September	<input type="checkbox"/>
10-2024	10/1/2024	10/31/2024	31	October	<input type="checkbox"/>
11-2024	11/1/2024	11/30/2024	30	November	<input type="checkbox"/>
12-2024	12/1/2024	12/31/2024	31	December	<input type="checkbox"/>
13-2024	12/31/2024	12/31/2024	0	Adjustment Period	<input checked="" type="checkbox"/>

Modify Financial Periods

Financial periods for the selected year exist in the fixed asset posting book and do not match the periods in the general ledger. To amend the periods in the posting book based on the periods in the general ledger, on the Book Calendars (FA304000) form, click Synchronize FA Calendar with GL.

OK

Figure: A warning message on the Master Financial Calendar form

The user has to click the **Synchronize FA Calendar with GL** command on the More menu of the [Book Calendars](#) (FA304000) form to amend the periods.

The following changes in validation have been implemented on the [Master Financial Calendar](#) form:

- The system does not allow the deletion of the financial periods and years that have released or unreleased fixed asset transactions in the posting book. This validation is performed only if no GL batches exist for the period or year.
- The system makes the ending date of a financial period unavailable for editing if there are released or unreleased fixed asset transactions in the posting book in this period or in the later periods.
- If a user modifies the end dates of the existing periods or manually adds new periods, the system checks if the start and end dates of the periods match the start and end dates of the periods that exist in the posting book. If these dates do not match, the system displays an error message.
- If a user generates a new financial year, on completion of the operation, the system checks if the start and end dates of the periods of the year match the start and end dates of the periods that exist in the posting book. If these dates do not match, the system displays an error message.
- The validation of the period dates performed for the periods being deleted, which existed in versions before 2023 R1, has been removed.

Changes to the Company Financial Calendar Form

If the *Multiple Calendar Support* feature is enabled on the [Enable/Disable Features](#) (CS100000) form, on the [Company Financial Calendar](#) (GL201100) form, the system does not allow a user to delete a financial year if at least one period of the year has released or unreleased fixed asset transactions in the posting book for the branches of the company. This validation is performed only if no GL batches exist for the year.

Finance: Tax Bills with Direct-Entry Taxes and Taxable Lines

In previous versions of Acumatica ERP, a user could not create one document containing a combination of direct-entry tax lines and expense lines if these tax lines were based on a previous zero-VAT invoice. Two forms were used to process both types of lines—the [Tax Bills and Adjustments](#) (TX303000) form, which contained only a tax amount, and the [Bills and Adjustments](#) (AP301000) form, which contained only expense lines.

In Acumatica ERP 2023 R1, users can create AP documents (bills and cash purchases) and landed cost documents with both direct-entry tax lines and expense lines. Direct-entry tax lines have taxable amounts of 0. When a user prepares a tax report, a zero-rate tax is applied to the original transaction (the one that includes the expense lines of the direct-entry tax lines) to report the taxable amount under the original bill. The tax itself is reported in a tax bill. The functionality described below is used when a user creates a tax bill that includes multiple lines, one of which representing the import tax amount.



The previously existing functionality of entering tax lines separately on the [Tax Bills and Adjustments](#) form and of entering expense lines on the [Bills and Adjustments](#) form is still available. However, to restrict the auto-application of direct-entry taxes on the [Bills and Adjustments](#) form, limitations are applied to direct-entry taxes, as described in the next section.

Changes to the Taxes Form

On the [Taxes](#) (TX205000) form, the **Enter from Tax Bill** check box on the **Tax Settings** tab has been renamed to **Direct-Entry Tax**, as shown in the following screenshot.

The screenshot shows the 'Taxes' form in Acumatica ERP. The 'TAX SETTINGS' tab is active. The 'Tax ID' is 'IMPORT - Import Tax' and the 'Description' is 'Import Tax'. The 'Tax Type' is 'VAT'. Under the 'VAT' section, the 'Direct-Entry Tax' checkbox is checked and highlighted with a red box. Other options like 'Partially Deductible VAT', 'Reverse VAT', 'Statistical VAT', 'Include in VAT Exempt Total', and 'Include in VAT Taxable Total' are unchecked. The 'Calculation Rule' is 'Inclusive Line-Level'. The 'Cash Discount' is 'Does Not Affect Taxable Amount'. The 'Exclude from Tax-on-Tax Calculation' checkbox is checked. The 'Tax Agency' is 'CANADABC - British Columbia Ministr'. The 'Not Valid After' field is empty. Below the settings, there is a 'TAX SCHEDULE' section with a table showing tax rates and taxable amounts.

* Start Date	Tax Rate	Min. Taxable Amount	Max. Taxable Amount	Reporting Group	Group Type
1/1/1900	100.000000	0.0000	0.0000	Input Tax (purchases)	Input
> 1/1/1900	100.000000	0.0000	0.0000	Output Tax (sales)	Output

Figure: The Direct-Entry Tax check box on the Taxes form

If this check box is selected for a tax, the tax that can be entered directly on the [Tax Bills and Adjustments](#) (TX303000) form and other data entry forms, and it represents a tax levied on imported goods (import tax). The following rules apply to a direct-entry tax:

- A direct-entry tax cannot be included in the same tax category with non-direct-entry taxes if the **Exclude Listed Taxes** check box is cleared on the [Tax Categories](#) (TX205500) form for this tax category.

- Multiple direct-entry taxes that are included in the same tax zone on the [Tax Zones](#) (TX206000) form cannot be included in the same tax category.

If a user selects the **Direct-Entry Tax** check box for a tax, the system applies the following settings, which cannot be edited:

- Calculation Rule:** *Inclusive Line-Level*
- Cash Discount:** *Does Not Affect Taxable Amount*
- Exclude from Tax-on-Tax Calculation:** Selected

With the **Direct-Entry Tax** check box selected, the state and behavior of the following check boxes are changed:

- Partially Deductible VAT:** Cleared by default and cannot be selected
- Reverse VAT:** Cleared by default and cannot be selected
- Pending VAT:** Cleared by default and can be selected



Direct-entry taxes that have the **Pending VAT** check box selected are further processed on the [Bills and Adjustments](#) (AP301000), [Checks and Payments](#) (AP302000), [Recognize Input VAT](#) (TX503500), and [Recognize Output VAT](#) (TX503000) forms as regular pending VATs.

Direct-entry taxes can be automatically applied by the system on the following forms:

- [Bills and Adjustments](#) (AP301000)
- [Cash Purchases](#) (AP304000)
- [Landed Costs](#) (PO303000)
- [Tax Bills and Adjustments](#) (TX303000)

Direct-entry taxes are not applied on other forms where taxes are available, such as [Purchase Orders](#) (PO301000) or [Sales Orders](#) (SO301000).



If a tax category containing a direct-entry tax is selected for a purchase order on the [Purchase Orders](#) form or if a stock item is assigned to a tax category containing a direct-entry tax and the user adds this stock item to a purchase order, the import tax will be ignored by the system.

Changes to the Tax Categories Form

On the [Tax Categories](#) (TX205500) form, the **Direct-Entry Tax** read-only column has been added to the table, as shown in the following screenshot.

[Tax Categories](#) NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

IMPORT - Imported Goods and Services

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* Tax Category ID:

Description:

☒ Active

☐ Exclude Listed Taxes

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* Tax ID	Description	Tax Type	Calculation Rule	Cash Discount	Direct-Entry Tax
> IMPORT	Import Tax	VAT	Inclusive Line-Level	Does Not Affect Taxable Amount	<input checked="" type="checkbox"/>

Figure: The Direct-Entry Tax column on the Tax Categories form

Changes to the Tax Zones Form

On the [Tax Zones](#) (TX206000) form, the **Direct-Entry Tax** read-only column has been added to the table, as shown in the following screenshot.

The screenshot shows the 'Tax Zones' form for 'IMPORT - Canada - British Columbia'. The form includes fields for 'Tax Zone ID' (IMPORT), 'Description' (Canada - British Columbia), and 'Default Tax Category' (IMPORT - Imported Goods and Services). Below these fields are tabs for 'APPLICABLE TAXES' and 'SHIP-TO ADDRESSES'. The 'APPLICABLE TAXES' tab is active, displaying a table with the following data:

*Tax ID	Description	Tax Type	Calculation Rule	Cash Discount	Direct-Entry Tax
CABCPST	Canada BC PST	VAT	Exclusive Document-Level	Does Not Affect Taxable Amount	<input type="checkbox"/>
IMPORT	Import Tax	VAT	Inclusive Line-Level	Does Not Affect Taxable Amount	<input checked="" type="checkbox"/>

Figure: The Direct-Entry Tax column on the Tax Zones form

Changes to the Bills and Adjustments Form

The [Bills and Adjustments](#) (AP301000) form has been modified to support the entry of tax bills containing taxable lines and 100% tax lines, as well as the entry of tax bills containing only 100% tax lines.

A direct-entry tax is applied on the [Bills and Adjustments](#) form if the following conditions are met:

- The vendor's tax zone is the tax zone in which the direct-entry tax is included.
- The tax category selected in the document line contains the direct-entry tax and has the **Exclude Listed Taxes** check box cleared on the [Tax Categories](#) (TX205500) form.

The following screenshot illustrates a direct-entry tax entered on the [Bills and Adjustments](#) form.

[Bills and Adjustments](#) NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS ▾

Bill 003231 - Etik Food Supplies

Type: Bill ▾ Vendor: FOODETISUP - Etik Food Supplies Detail Total: 1,100.00
 Reference Nbr.: 003231 Location: MAIN - Primary Location Discount Total: 0.00
 Status: Open Currency: USD 1.00 ▾ VIEW BASE VAT Taxable Total: 0.00
 Date: 1/11/2023 Terms: 30D - 30 Days VAT Exempt Total: 0.00
 Post Period: 01-2023 * Due Date: 2/10/2023 ▾ Tax Total: 170.00
 Vendor Ref.: Food04 * Cash Discount: 2/10/2023 ▾ ☐ Pay by Line With. Tax: 0.00
 Description: Balance: 1,170.00
 Amount: 1,170.00
 Cash Discount: 0.00

DETAILS FINANCIAL **TAXES** APPROVALS DISCOUNTS APPLICATIONS

* Tax ID	Tax Rate	Taxable Amount	Tax Amount	Deductible Tax Rate	Expense Amount
> CABCPST	7.000000	1,000.00	70.00	100.000000	0.00
IMPORT	100.000000	0.00	100.00	100.000000	0.00

Figure: A direct-entry tax on the Bills and Adjustments form

For a document line to which a direct-entry tax is applied, the full line amount is the **Tax Amount** (shown on the **Taxes** tab), and the **Taxable Amount** is always 0.

For a direct-entry tax, the following boxes cannot be edited on the **Taxes** tab of the [Bills and Adjustments](#) form: **Taxable Amount**, **Tax Amount**, **Tax Rate**, **Expense Amount** as well as **Retained Taxable Amount** and **Retained Tax** for documents with retainage, and the **Deferral Code** column on the **Details** tab. A user cannot manually delete a direct-entry tax from the **Taxes** tab by clicking **Delete Row** on the table toolbar. To delete a direct-entry tax, the user should change the tax category for the document line or delete the document line with the tax on the **Details** tab.

If the *Net/Gross Entry Mode* feature is enabled on the [Enable/Disable Features](#) (CS100000) form, the tax calculation mode selected for the bill on the **Financial** tab (**Tax** section) of the [Bills and Adjustments](#) form does not affect the tax calculated for the line with a direct-entry tax.



Direct-entry taxes cannot be applied to lines linked to a purchase order, subcontract, or purchase receipt. A direct-entry tax can be applied only to a landed cost line with the *None* allocation method specified on the **Landed Costs** tab of the [Landed Costs](#) (PO303000) form.

Processing of Discounts

No discounts are applied to lines with direct-entry taxes.

If automatic line discounts are set up, for a line with a direct-entry tax, the system will insert 0 in the **Discount Amount** and **Discount Percent** boxes and select the **Manual Discount** check box.

Lines with direct-entry taxes are excluded from the calculation of group discounts and document discounts on the [Bills and Adjustments](#) form.

Processing of Retainage

If the **Apply Retainage** check box is selected for a document on the [Bills and Adjustments](#) form, the **Retainage Amount** and **Retainage Percent** columns on the **Details** tab will always be 0 and unavailable for lines with direct-entry taxes.

If a retainage amount and percent have been specified for a regular line and this line is changed to a line with a direct-entry tax, the system resets the **Retainage Amount** and **Retainage Percent** columns to 0 and makes them unavailable.

If a line with a direct-entry tax has been changed to an expense line, the **Retainage Amount** and **Retainage Percent** columns become available.

Changes to the Landed Cost Codes Form

The [Landed Cost Codes](#) (PO202000) form has been modified to support direct-entry taxes in landed cost documents as follows:

- If *None* is selected in the **Allocation Method** box, the **Tax Category** lookup box displays tax categories with regular taxes that have the **Exclude Listed Taxes** check box cleared on the [Tax Categories](#) (TX205500) form and that contain direct-entry taxes.
- If any other allocation method is selected, the **Tax Category** lookup box displays only tax categories containing regular taxes and tax categories that have the **Exclude Listed Taxes** check box selected.

Changes to the Stock Items Form

On the [Stock Items](#) (IN202500) form, the **Tax Category** lookup box on the **General** tab displays only the tax categories that meet either of the following criteria:

- The tax category contains regular taxes—those for which the **Direct-Entry Tax** check box is cleared on the [Taxes](#) (TX205000) form—and the **Exclude Listed Taxes** check box is selected or cleared on the [Tax Categories](#) (TX205500) form.
- The tax category has the **Exclude Listed Taxes** check box selected on the [Tax Categories](#) form.

Changes to the Landed Costs Form

A direct-entry tax is applied on the [Landed Costs](#) (PO303000) form if all of the following conditions are met:

- The landed cost document belongs to the tax zone in which the direct-entry tax is included.
- The line of the landed cost document has the *None* allocation method specified on the **Landed Costs** tab.
- The tax category selected in the document line contains the direct-entry tax and has the **Exclude Listed Taxes** check box cleared on the [Tax Categories](#) (TX205500) form.

The following screenshot illustrates a direct-entry tax applied to a landed cost document.

Landed Costs
LC000148 - US Customs

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS ▾

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Reference Nbr.: LC000148	Vendor: USCUSTOMS - US Customs	Total Allocated Am... 0.00
Status: Released	Location: MAIN - Primary Location	Amount Total: 78.00
Date: 1/11/2023	Currency: USD 1.00 VIEW BASE	VAT Taxable Total: 0.00
Post Period: 01-2023	<input checked="" type="checkbox"/> Create Bill	VAT Exempt Total: 0.00
Vendor Ref.: US0010		Tax Total: 78.00
		Document Total: 78.00

LANDED COSTS DETAILS **TAXES** FINANCIAL

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* Tax ID	Tax Rate	Taxable Amount	Tax Amount
> IMPORT	100.000000	0.00	78.00

Figure: A direct-entry tax on the Landed Costs form

For a direct-entry tax, the following boxes cannot be edited on the **Taxes** tab: **Taxable Amount**, **Tax Amount**, and **Tax Rate**. A user cannot manually delete a direct-entry tax from the **Taxes** tab by clicking **Delete Row** on the table toolbar. To delete the direct-entry tax, the user should change the tax category for the document line or delete the document line with the tax on the **Details** tab.

Changes to the Cash Purchases Form

On the [Cash Purchases](#) (AP304000) form, a direct-entry tax is applied if both of the following conditions are met:

- The vendor's tax zone is the tax zone in which the direct-entry tax is included.
- The tax category selected in the document line contains the direct-entry tax and has the **Exclude Listed Taxes** check box cleared on the [Tax Categories](#) (TX205500) form.

The following screenshot illustrates a direct-entry tax applied to a cash purchase.

Cash Purchases

Cash Purchase 002060 - Etik Food Supplies

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

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Type: Cash Purc...	Vendor: FOODETISUP - Etik Food Supplies	Detail Total: 499.00
Reference Nbr.: 002060	Location: MAIN - Primary Location	VAT Taxable T... 0.00
Status: Closed	Payment Meth... CHECK	VAT Exempt T... 0.00
Date: 1/11/2023	Cash Account: 10200 - Company Checking Account	Tax Total: 499.00
Post Period: 01-2023	Currency: USD 1.00 VIEW BASE	With. Tax: 0.00
	Payment Ref.: 2950	Balance: 0.00
Description:		Payment Amo... 499.00
		Tax Amount: 499.00
		Cash Discount... 0.00
		Finance Charg... 0.00

DETAILS FINANCIAL **TAXES** APPROVALS REMITTANCE CHARGES

* Tax ID	Tax Rate	Taxable Amount	Tax Amount	Deductible Tax Rate	Expense Amount
> IMPORT	100.000000	0.00	499.00	100.000000	0.00

Figure: A direct-entry tax on the Cash Purchases form

For a direct-entry tax, the following boxes cannot be edited on the **Taxes** tab of the [Cash Purchases](#) form: **Taxable Amount**, **Tax Amount**, **Tax Rate**, **Expense Amount**, and the **Deferral Code** column on the **Details** tab. A user cannot manually delete a direct-entry tax from the **Taxes** tab by clicking **Delete Row** on the table toolbar. To delete the direct-entry tax, the user should change the tax category for the document line or delete the document line with the tax on the **Details** tab.

If the *Net/Gross Entry Mode* feature is enabled on the [Enable/Disable Features](#) (CS100000) form, the tax calculation mode selected for the cash purchase on the **Financial** tab (**Tax and Terms** section) of the [Cash Purchases](#) form does not affect the tax calculated for the line with a direct-entry tax.

Upgrade Notes

During an upgrade to Acumatica ERP 2023 R1, the upgrade script will update the settings of existing direct-entry taxes on the [Taxes](#) (TX205000) form to the following:

- **Calculation Rule:** *Inclusive Line-Level*
- **Cash Discount:** *Does Not Affect Taxable Amount*
- **Exclude from Tax-on-Tax Calculation:** Selected
- **Partially Deductible VAT:** Cleared
- **Reverse VAT:** Cleared
- **Deductible Tax Rate:** 100

Additionally, the script will remove a direct-entry tax from a tax category if this was the only direct-entry tax available for the combination of a tax zone and a tax category with the **Exclude Listed Taxes** check box cleared. This change prevents unexpected automatic application of the direct-entry tax on the [Bills and Adjustments](#) (AP301000), [Cash Purchases](#) (AP304000), and [Landed Costs](#) (PO303000) forms.

After the upgrade, if a document line has an invalid tax configuration, the system will apply only the regular taxes if the tax category selected for the line contains both regular and direct-entry taxes, and will apply no direct-entry taxes if the tax category contains multiple direct-entry taxes. If a taxable document is created after the upgrade or if a document was created before the upgrade and edited after the upgrade, the system will display warning messages as follows:

- If the tax category contains regular and direct-entry taxes, the system will display a warning indicating that the regular and direct-entry taxes cannot be applied to the same document line.
- If the tax category contains multiple direct-entry taxes, the system will display a warning indicating that multiple direct-entry taxes cannot be applied to the same document line.

Additional Information

For details on direct-entry taxes, see [Direct Tax Payment: General Information](#).

For details on how to add a direct-entry tax to an AP bill, see [Direct Tax Payment: To Create an AP Bill with a Direct-Entry Tax](#).

Finance: Other Improvements

In Acumatica ERP 2023 R1, multiple improvements to financial management processes have been introduced, as described below.

Ability to Change the Type of Account with Posted Transactions

On the [Chart of Accounts](#) (GL202500) form, users can now change the type of accounts to which transactions have been posted by updating the setting in the **Type** column. On this form, a user can substitute the *Income* and *Expense* types for each other, and can substitute the *Asset* and *Liability* types for each other.



By default, the ability to change the account type is granted to only users that are assigned to the *Financial Supervisor* role on the [User Roles](#) (SM201005) form.

If a user changes the account type (see Item 1 in the following screenshot, where *Income* has been changed to *Expense*) and clicks **Save**, the system displays a Warning dialog box (Item 2).

The screenshot shows the 'Chart of Accounts' form with a table of accounts. The account '49000' is highlighted, and its 'Type' is being changed from 'Income' to 'Expense'. A warning dialog box is displayed, stating: 'Changing the type of accounts may affect financial statements because general ledger transactions were posted to these accounts: 49000'. The dialog box has 'UPDATE' and 'CANCEL' buttons.

*Account	Account Class	Type	Active	Description	Control Account Module	Allow Manual Entry	Post Option	Cash Account	Currency	Revaluation Rate Type	Consolidation Account	Account Group	Tax Category	Use Default Subaccount
40020	SALES	Income	<input checked="" type="checkbox"/>	Sales - Re-Billed Expenses		<input type="checkbox"/>	Summary	<input type="checkbox"/>				REVENUE		<input type="checkbox"/>
40050	SALES	Income	<input checked="" type="checkbox"/>	Sales - Construction Mechanical		<input type="checkbox"/>	Summary	<input type="checkbox"/>				REVENUE		<input type="checkbox"/>
40060	SALES	Income	<input checked="" type="checkbox"/>	Sales - Construction Electrical		<input type="checkbox"/>	Summary	<input type="checkbox"/>				REVENUE		<input type="checkbox"/>
41000	SALES	Income	<input checked="" type="checkbox"/>	Sales Returns and Allowances		<input type="checkbox"/>	Summary	<input type="checkbox"/>						<input type="checkbox"/>
43000	REVENUE	Income	<input checked="" type="checkbox"/>	Related Company Sales		<input type="checkbox"/>	Summary	<input type="checkbox"/>				REVENUE		<input type="checkbox"/>
49000	OTHINCOME	Expense	<input checked="" type="checkbox"/>	Discount Taken		<input type="checkbox"/>		<input type="checkbox"/>						<input type="checkbox"/>
49200	EXOTHER	Expense	<input type="checkbox"/>	Other Income (Incorrectly		<input type="checkbox"/>		<input type="checkbox"/>						<input type="checkbox"/>
49300	INTEREST	Income	<input checked="" type="checkbox"/>	Other Income Interest Inc		<input type="checkbox"/>		<input type="checkbox"/>						<input type="checkbox"/>
45400	OTHINCOME	Income	<input checked="" type="checkbox"/>	Other Income		<input type="checkbox"/>		<input type="checkbox"/>				REVENUE		<input type="checkbox"/>
50000	COGS	Expense	<input checked="" type="checkbox"/>	COGS - Inventory		<input type="checkbox"/>		<input type="checkbox"/>				MATERIAL		<input type="checkbox"/>
51000	COGS	Expense	<input checked="" type="checkbox"/>	COGS - Direct Labor Cost		<input type="checkbox"/>		<input type="checkbox"/>				LABOR		<input type="checkbox"/>
51050	COGS	Expense	<input checked="" type="checkbox"/>	COGS - Fixed Overhead Costs		<input type="checkbox"/>	Summary	<input type="checkbox"/>						<input type="checkbox"/>
51150	COGS	Expense	<input checked="" type="checkbox"/>	COGS - Variable Overhead Costs		<input type="checkbox"/>	Summary	<input type="checkbox"/>						<input type="checkbox"/>
51200	COGS	Expense	<input checked="" type="checkbox"/>	COGS - Salaries and Wages		<input type="checkbox"/>	Summary	<input type="checkbox"/>				LABOR		<input type="checkbox"/>
51250	COGS	Expense	<input checked="" type="checkbox"/>	COGS - Subcontractors		<input type="checkbox"/>	Summary	<input type="checkbox"/>				SUBCON		<input type="checkbox"/>
51260	COGS	Expense	<input checked="" type="checkbox"/>	COGS - Mechanical Subcontract		<input type="checkbox"/>	Summary	<input type="checkbox"/>				SUBCON		<input type="checkbox"/>
51270	COGS	Expense	<input checked="" type="checkbox"/>	COGS - Electrical Subcontractors		<input type="checkbox"/>	Summary	<input type="checkbox"/>				SUBCON		<input type="checkbox"/>
51300	COGS	Expense	<input checked="" type="checkbox"/>	COGS - Freight		<input type="checkbox"/>	Summary	<input type="checkbox"/>				OTHEREXP		<input type="checkbox"/>
51325	COGS	Expense	<input checked="" type="checkbox"/>	COGS - Equipment		<input type="checkbox"/>	Summary	<input type="checkbox"/>				EQUIPME		<input type="checkbox"/>

Figure: Change of account type on the Chart of Accounts form

To confirm the change of the account type, the user clicks **Update** in the dialog box. If this account has corresponding project transactions, the system also runs the process of recalculating project balances for the related projects.

Changes in types of account do not affect the calculation of amounts posted to the *Retained Earnings* and *YTD Net Income* accounts.

Tax Zone Validation

In Acumatica ERP 2022 R2, automatic assignment of the tax zone to sales orders and invoices was implemented. However, records entered on the **Ship-To Address** tab of the [Tax Zones](#) (TX206000) form were not validated, so a user could enter more than one tax zone that corresponded to the same country, state, and postal code.

To address this ambiguity, validation of tax zones has been implemented in Acumatica ERP 2023 R1 as an enhancement to this functionality. The system now ensures that the user cannot create two or more tax zones linked to the same combination of country, state, and postal code. If a combination of the tax zone and the country, state, and postal code already exists, the system displays an error message.

When a user enters a new record on the **Ship-To Addresses** tab of the [Tax Zones](#) (TX206000) form, depending on the **Tax Zone Is Based On** setting, the system validates the new entry as follows:

- If *Countries* is selected, when the user adds a country to the list of the tax zone's countries, the system verifies that there is no tax zone with *Countries* selected in the **Tax Zone Is Based On** box that has the same country in the list of the tax zone's countries.
- If *States* is selected, when the user adds a state to the list of the tax zone's states, the system verifies that there is no tax zone with *States* selected in the **Tax Zone Is Based On** box that has the same state in the list of the tax zone's states.
- If *Postal Codes* is selected, when the user adds a postal code range to the list on the **Ship-To Addresses** tab, the system verifies that there is no tax zone with *Postal Codes* selected in the **Tax Zone Is Based On** box with the same country that has a postal code range that overlaps with the newly added postal code range.

If the user modifies a record on the **Ship-To Addresses** tab, the system performs the same validation, but without taking into account the record that is being modified.

Availability of Payments by Line for Tax Agencies

On the [Vendors](#) (AP303000) form, the **Pay by Line** check box on the **Payment** tab (**Default Payment Settings** section) is now available for vendors configured as tax agencies (those that have the **Vendor Is a Tax Agency** check box selected on the **General** tab), as shown in the following screenshot.

The screenshot shows the 'Vendors' form for 'TAXINDIANA - Indiana Department of Revenue'. The 'Payment' tab is active, and the 'Default Payment Settings' section is expanded. The 'Pay by Line' checkbox is checked and highlighted with a red box. Other settings include 'Payment Method: CHECK - Check', 'Cash Account: 10200 - Company Checking Account', 'Payment By: Due Date', 'Payment Lead Time (D...): 0', 'Prepayment Percent: 100.000000', and 'Payment Instructions' table.

Description	Value

Figure: The Pay by Line check box selected for a tax agency

Due to this change, the tax bills that are generated for such a tax agency and that have multiple lines can be paid in full or by line.

Availability of the Reverse Command for GL Revaluation Batches

In previous versions of Acumatica ERP, users were not able to correct GL transactions that were generated on the [Revalue GL Accounts](#) (CM506000) form.

In Acumatica ERP 2023 R1, on the [Journal Transactions](#) (GL301000) form, the **Reverse** command is available on the More menu for batches posted during processing on the [Revalue GL Accounts](#) form. If the user clicks **Reverse** on the More menu, the system creates a reversing batch, which is a copy of the original batch where the debit and

credit amounts change places to offset the original debit and credit amounts. The user can edit the **Description** box for this batch; all the other boxes are read-only.

For the batches created on the [Revalue AP Accounts](#) (CM504000) and [Revalue AR Accounts](#) (CM505000) form, the **Reverse** command remains unavailable.

The following screenshot shows a batch that was posted as a result of the GL revaluation process on the [Revalue GL Accounts](#) form and the availability of the **Reverse** command for the batch.

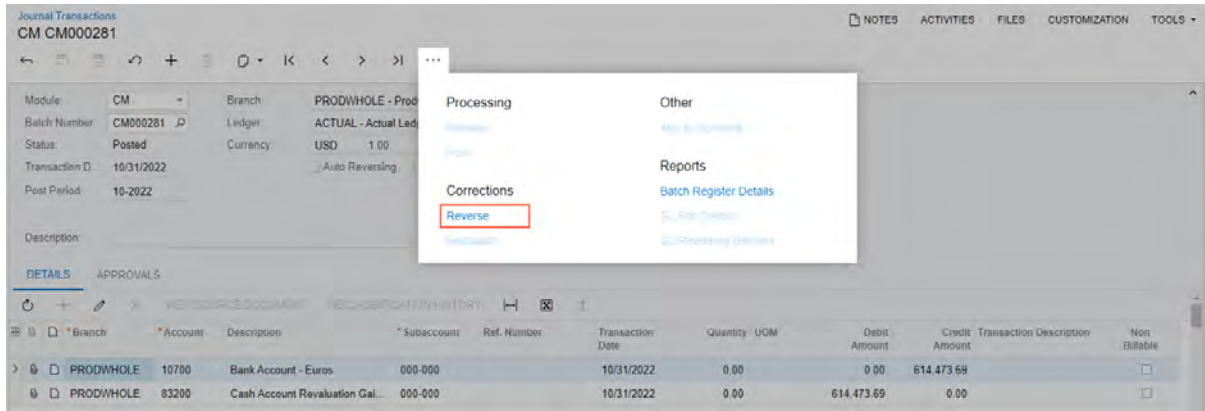


Figure: The available Reverse command for a GL revaluation batch

The following screenshot shows the batch that reverses the GL revaluation batch in the previous screenshot.

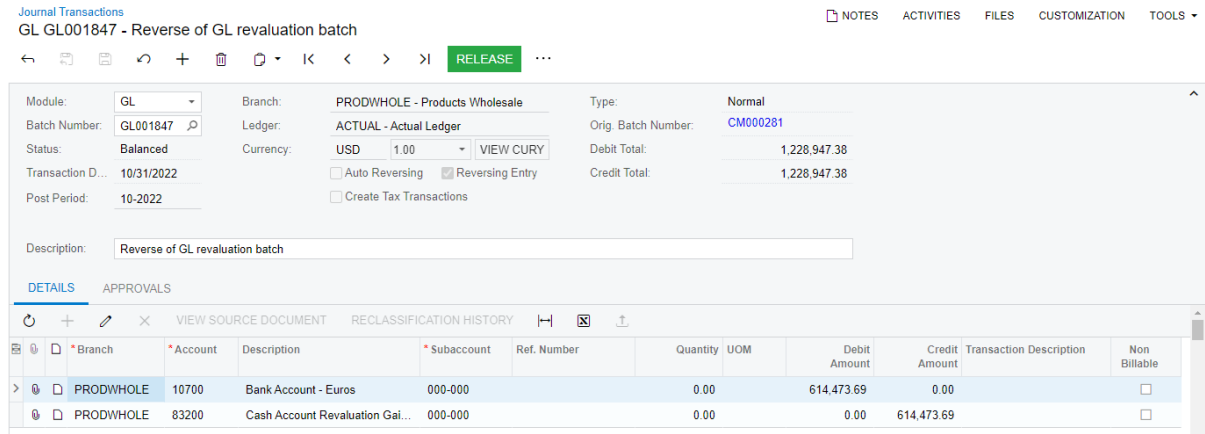


Figure: The reversing batch generated by the system

Copying of GL Accounts from the Default Location to New Locations

In previous versions of Acumatica ERP, when a user added a new customer or vendor location on the **Locations** tab of the [Customers](#) (AR303000) or [Vendors](#) (AP303000) form, the system copied only the **Sales Account** and **Expense Account**, respectively, from the default customer or vendor location to the new location.

In Acumatica ERP 2023 R1, when a user creates a new location for a customer or vendor, the system copies the following settings from the default location:

- For a new customer location: **Sales Account**, **Sales Sub.**, **Discount Account**, **Discount Sub.**, **Freight Account**, and **Freight Sub.** (Subaccounts are copied if they are used in the system.)
- For a new vendor location: **Expense Account**, **Expense Sub.**, **Discount Account**, and **Discount Sub.** (Subaccounts are copied if they are used in the system.)

Availability of 1099 Vendor Check Box for Vendors Extended from a Branch

In previous versions of Acumatica ERP, vendors that were extended from a branch could not be set up as 1099 vendors.

Starting in 2023 R1, the **1099 Vendor** check box on the **General** tab of the [Vendors](#) (AP303000) form is available for vendors extended from a branch, as shown in the following screenshot.

The screenshot shows the 'Vendors' form in Acumatica ERP. The 'General' tab is active. The 'Vendor ID' is 'PRODWHOLE - Products Wholesale'. The 'Vendor Status' is 'Active'. The 'Vendor Class' is 'INTERCO - Related Company'. The 'Balance' is '0.00'. The 'Prepayment Balance' is '0.00'. The 'Retained Balance' is '0.00'. The '1099 Vendor' checkbox is selected and highlighted with a red box. The '1099 Box' is 'NEC01 - Nonemployee Compensation'. The 'Project Defaults' section is also visible.

Figure: The 1099 Vendor check box selected for a vendor extended from a branch

Renamed Tabs on Cash Management Forms

To align the tab names on multiple cash management forms with the names of similar tabs on forms in other Acumatica ERP areas, the tabs on cash management forms have been renamed as follows.

Form	Tab Name in Previous Versions	New Tab Name in 2023 R1
Cash Management Preferences (CA101000)	General Settings	General
	Approval	Approvals
	Bank Statement Settings	Bank Statements
Cash Transactions (CA304000)	Transaction Details	Details
	Tax Details	Taxes
	Financial Details	Financial
	Approval Details	Approvals
Bank Deposits (CA305000)	Financial Details	Financial

Reimplementation of the Australian Prime Cost Depreciation Method

In Acumatica ERP 2023 R1, the *Australian Prime Cost* depreciation method has been reimplemented by using the new depreciation engine. The method can be used for any type of calendar, but the correct depreciation amounts according to the rules used in Australia will be generated for monthly calendars only.

Integrations: Improved Processing of Use Taxes Calculated by Avalara

In previous versions of Acumatica ERP, use taxes returned by Avalara (an external tax provider) were not correctly processed in AP bills and the tax type returned by Avalara was not reflected in the system.

Starting in 2023 R1, Acumatica ERP supports use taxes in AP bills on the [Bills and Adjustments](#) (AP301000) form so that sales and use taxes can be identified. Also, the system provides a way to automatically calculate a use tax in an AP bill if no tax is included in the bill.

The following changes in the tax functionality have been introduced to improve the calculation of use taxes returned by Avalara:

- On the [Tax Zones](#) (TX206000) form, a user can specify whether to process the taxes returned from Avalara as sales taxes or as use taxes.
- On the [Bills and Adjustments](#) form, the use taxes returned by Avalara are added to the **Taxes** tab.
- The use tax amounts are not added to the **Tax Total** box for a document. The system displays a warning message that use taxes are excluded from **Tax Total**.
- When the Avalara integration is creating a new tax on the [Taxes](#) (TX205000) form, the **Tax Type** box is populated with the *Use* option and the tax ID has the *USE* suffix.

The changes described in the following sections are applicable if the *External Tax Calculation Integration* feature is enabled on the [Enable/Disable Features](#) (CS100000) form and integration with Avalara is set up in the system.

Changes to the Tax Zones Form

On the [Tax Zones](#) (TX206000) form, the **Calculate in AP** box has been added, as shown in the following screenshot.

The screenshot displays the 'Tax Zones' form for 'AVALARA - Avalara Tax Calculation'. The 'Calculate in AP' dropdown menu is open, showing three options: 'Sales Taxes', 'Sales Taxes', and 'Use Taxes'. The 'SHIP-TO ADDRESSES' tab is selected. The form includes fields for Tax Zone ID, Description, Default Tax Category, External Tax Provider, Provider ID, Tax Agency ID, Tax Zone Is Based On, and Country. The 'Calculate in AP' dropdown is highlighted with a red box.

Figure: The Calculate in AP box on the Tax Zones form

A user can select one of the following options in the **Calculate in AP** box:

- *Use Taxes*: The taxes in AP documents will be processed as use taxes. This is the default value for new tax zones.
- *Sales Taxes*: The taxes in AP documents will be processed as sales taxes.

This box appears on the form if the **External Tax Provider** check box is selected in the Summary area of the [Tax Zones](#) form.

Changes to the Bills and Adjustments Form

On the [Bills and Adjustments](#) (AP301000) form, use taxes created automatically by Avalara integration are added to the **Taxes** tab, as shown in the screenshot below.

The processing of use taxes on the [Bills and Adjustments](#) form consists of the following steps:

1. A user creates an AP bill on the [Bills and Adjustments](#) (AP301000) form, and in the **Vendor Tax Zone** box, the user specifies a tax zone that has *Use Taxes* selected in the **Calculate in AP** box on the [Tax Zones](#) (TX206000) form.
2. The user saves the AP bill.
3. The system sends a tax request to Avalara, and the use taxes are added to the **Taxes** tab of the [Bills and Adjustments](#) form for the bill. The system displays a warning near the **Tax Total** box in the Summary area that use taxes are excluded from **Tax Total**.
4. The automatically created use taxes also appear on the [Taxes](#) (TX205000) form, as described further in the topic.

The following screenshot illustrates an AP bill for which use taxes have been created by Avalara integration.

Bills and Adjustments
Bill 003237 - Goto Vendor Inc

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS ▾

← ↻ ↺ + 🗑️ 📄 ⏪ ⏩ ⏴ ⏵ PAY ...

Type: Bill	Vendor: AAVENDOR - Goto Vendor Inc	Detail Total: 1,000.00
Reference Nbr.: 003237	Location: MAIN - Primary Location	Discount Total: 0.00
Status: Open	Currency: USD 1.00 VIEW BASE	VAT Taxable Total: 0.00
Date: 1/16/2023	Terms: 30D - 30 Days	VAT Exempt Total: 0.00
Post Period: 01-2023	* Due Date: 2/15/2023	⚠ Tax Total: 0.00
Vendor Ref.: 00kjsbb	* Cash Discount: 2/15/2023 <input type="checkbox"/> Pay by Line	With. Tax: 0.00
Description:		Balance: 1,000.00
		Amount: 1,000.00
		Cash Discount: 0.00

DETAILS FINANCIAL **TAXES** APPROVALS DISCOUNTS APPLICATIONS

* Tax ID	Tax Rate	Taxable Amount	Tax Amount	Deductible Tax Rate	Expense Amount
> WA CITY TAX USE	3.600000	1,000.00	36.00	0.000000	0.00
WA COUNTY TAX USE	0.000000	1,000.00	0.00	0.000000	0.00
WA STATE TAX USE	6.500000	1,000.00	65.00	0.000000	0.00

Figure: Use taxes created for an AP bill

Changes to the Taxes Form

When a use tax is processed in AP documents, Avalara integration creates a new tax on the [Taxes](#) (TX205000) form. This tax has the *USE* suffix in its tax ID and the *Use* option selected in the **Tax Type** box. Each new tax is created according to the following rules:

- If *Use Taxes* is selected in the **Calculate in AP** box for the tax zone on the [Tax Zones](#) (TX206000) form, a use tax is created. If *Sales Taxes* is selected in the **Calculate in AP** box, a sales tax is created.
- If an internal tax is created, when the **Calculation Rule** is set to *Exclusive Document-Level*, the system verifies that on the **GL Accounts** tab of the [Taxes](#) (TX205000) form, the following settings are specified:
 - **Use Tax Expense Account:** Selected
 - **Tax Expense Account:** Populated

- **Tax Expense Subaccount:** Populated if subaccounts are used in the system
- The GL transaction posted to the general ledger as a result of processing use taxes debits the tax expense account and credits the accounts payable account with the amount specified in the **Tax Amount** column of the **Taxes** tab on the *Bills and Adjustments* (AP301000) form.

The following table lists the settings of a new use tax created by Avalara on the *Taxes* form.

UI Element	Value
Tax ID	The <code>taxName</code> value from the tax response of Avalara + the <i>USE</i> suffix
Calculation Rule	<i>Exclusive Document-Level</i> (read-only)
Description	<i>External Tax Provider State tax for</i> + <code>jurisName</code> from the tax response
Cash Discount	<i>Reduces Taxable Amount</i> (read-only)
Tax Type	<i>Use</i> (read-only)
Exclude from Tax-on-Tax Calculation	Selected (read-only)
Tax Agency	The value of the Tax Agency ID box specified on the <i>Tax Zones</i> (TX206000) form
Not Valid After	Empty (read-only)
Partially Deductible VAT	Cleared (read-only)
Reverse VAT	Cleared (read-only)
Statistical VAT	Cleared (read-only)
Include in VAT Exempt Total	Cleared (read-only)
Include in VAT Taxable Total	Cleared (read-only)
Pending VAT	Cleared (read-only)
Direct-Entry Tax	Cleared (read-only)
GL Accounts tab	
Tax Payable Account	The value specified in the Tax Payable Account box on the Tax Agency tab of the <i>Vendors</i> (AP303000) form
Tax Payable Subaccount	The value specified in the Tax Payable Subaccount box on the Tax Agency tab of the <i>Vendors</i> form
Use Tax Expense Account	Selected
Tax Expense Account	The value specified in the Tax Expense Account box on the Tax Agency tab of the <i>Vendors</i> form

UI Element	Value
Tax Expense Subaccount	The value specified in the Tax Expense Subaccount box on the Tax Agency tab of the <i>Vendors</i> form

Upgrade Notes

During an upgrade to Acumatica ERP 2023 R1, on the *Tax Zones* (TX206000) form, *Sales Taxes* will be inserted in the **Calculate in AP** box for all existing tax zones.

Integrations: Microsoft Teams Integration

Microsoft Teams is a collaboration platform that combines chat, conferencing, and file sharing in one tool. In the 2023 R1 release, Teams has been integrated with Acumatica ERP. This change delivers collaboration within a single platform, eliminating the need for users to switch between multiple applications.

If integration with Microsoft Teams has been set up, users can do the following in Acumatica ERP:



- Start a Teams chat
- Start a Teams call
- Import files from Teams to Acumatica ERP
- Share Acumatica ERP records with a contact or channel in Teams
- Send automatic notifications in Teams about events occurring on a record

Configuring the Microsoft Teams Integration

Before users can take advantage of the benefits of the Microsoft Teams integration, a system administrator must specify Microsoft Graph API settings in Microsoft Azure. Next, the system administrator must do the following in the Acumatica ERP instance and in Teams:

1. Enable the *Teams Integration* feature on the [Enable/Disable Features](#) (CS100000) form
2. Configure Teams permissions on the new *Teams Preferences* (SM220000) form, shown in the following screenshot
3. Add a new activity type on the [Activity Types](#) (CR102000) form
4. Synchronize Teams channels on the new *Teams Channels* (SM30500) form
5. Configure an incoming webhook for a Teams channel in Teams

Teams Preferences CUSTOMIZATION TOOLS ▾



MICROSOFT GRAPH API

Tenant ID:

Client ID:

Client Secret:

Timeout:

ADD PERMISSIONS  


	Enabled	Permission	Description	Admin
>	<input checked="" type="checkbox"/>	Channel.ReadBasic.All	Read all channel names and channel descriptions, without a signed-in user.	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	ChannelMessage.Send	Send channel messages in Microsoft Teams, on behalf of the signed-in user.	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	Chat.Create	Create chats, without a signed-in user.	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	ChatMessage.Send	Send one-to-one and group chat messages in Microsoft Teams, on behalf of the signed-in user.	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	Files.Read.All	Read all files in all site collections, without a signed-in user.	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	GroupMember.Read.All	List groups, read basic group properties, and read membership of all groups the signed-in user h...	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	offline_access	Read and update user data, even when they are not currently using the app.	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	Presence.Read.All	Read presence information of all users in the directory, on behalf of the signed-in user. Presence i...	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	Team.ReadBasic.All	Read the names and descriptions of teams, on behalf of the signed-in user.	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	User.ReadBasic.All	Read a basic set of profile properties of other users in your organization, on behalf of the signed-i...	<input type="checkbox"/>

Figure: The new Teams Preferences form

Once the integration between the systems has been set up, each user needs to set up the integration for their user account. To do this, the user needs to sign in to their Teams account by clicking **Sign In** on the **Teams Settings** tab of the [User Profile](#) (SM203010) form, as shown in the following screenshot).

The screenshot shows the 'User Profile' form with the 'TEAMS SETTINGS' tab selected. Under the 'AUTHENTICATION TOKEN' section, the 'Teams User Type' is set to 'Member'. The 'SIGN IN' button is highlighted with a red box. Other buttons visible are 'SIGN OUT' and 'TEST CONNECTION'. Below this, the 'TEAMS PREFERENCES' section has fields for 'Override Teams ID' and 'Teams Client'.

Figure: The new Teams Settings tab on the User Profile form

After the user has signed in to Teams in this way, the system will automatically handle sign-in to Teams when the user is signed in to Acumatica ERP unless the user returns to this form and clicks **Sign Out** on the **Teams Settings** tab.

Starting a Teams Chat or Call

Users can start a Teams chat or call from any of the following forms:

- [Cases](#) (CR306000)
- [Leads](#) (CR301000)
- [Opportunities](#) (CR304000)
- [Business Accounts](#) (CR303000)
- [Contacts](#) (CR302000)
- [Customers](#) (AR303000)
- [Vendors](#) (AP303000)

For example, to send a message in Teams from the [Cases](#) form, the user clicks the Teams icon to the right of the **Contact** box (see Item 1 in the following screenshot) or the **Owner** box (Item 2), depending on whom the user wants to contact.

The screenshot shows the 'Opportunities' form (Case ID: 000012 - Test) with the 'DOCUMENT' tab selected. The 'USER-DEFINED FIELDS' section contains several fields. The 'Contact' field (Andrea A. Weaver) and the 'Owner' field (Regina Wiley) both have a Teams icon next to them, labeled with red circles 1 and 2 respectively. The 'Status' is 'New', 'Reason' is 'Unassigned', 'Severity' is 'Medium', and 'Priority' is 'Medium'.

Figure: The Opportunities form

In the **Teams Contact** dialog box, which opens, the user can start a chat, initiate a call, or schedule a meeting by clicking the appropriate button (see the following screenshot).

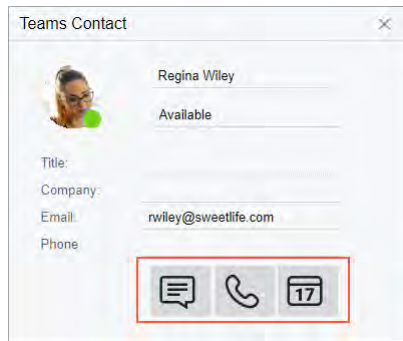


Figure: The Teams Contact dialog box

If the user clicks the message button, Acumatica ERP opens a chat with the contact or owner in the Teams application. If the user clicks the call button, Acumatica ERP starts a call with the contact or owner in the Teams application. If the user clicks the calendar button, Acumatica ERP opens the **New meeting** dialog box in Teams, which it populates with the relevant settings.

Importing Files Shared from Teams to Acumatica ERP

When a user is creating a new record, the user can upload files from Teams into Acumatica ERP by clicking **Files** on the form title bar.

In the **Files** dialog box, which opens, the user needs to click **Upload From Teams** (see the following screenshot).

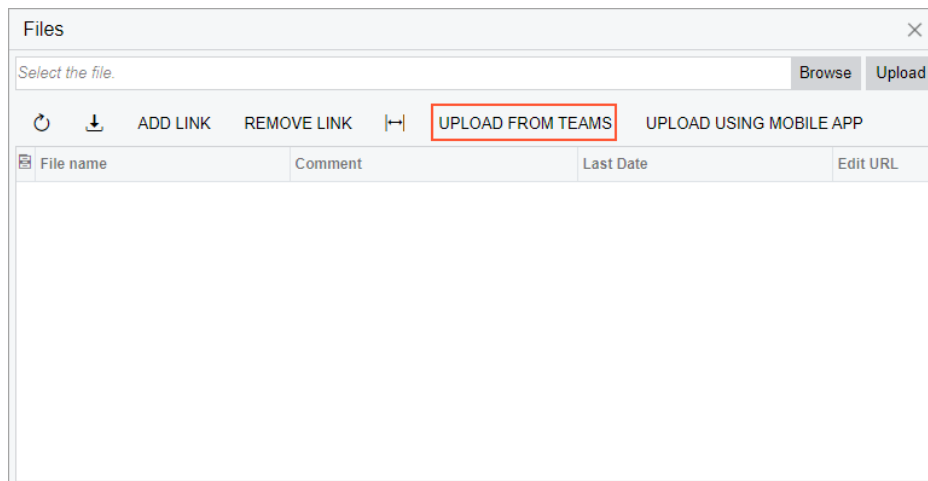


Figure: The Files dialog box

In the **Upload From Teams** dialog box, which opens, the user selects the files that need to be uploaded into Acumatica ERP and clicks **Upload & Close** (see the following screenshot).

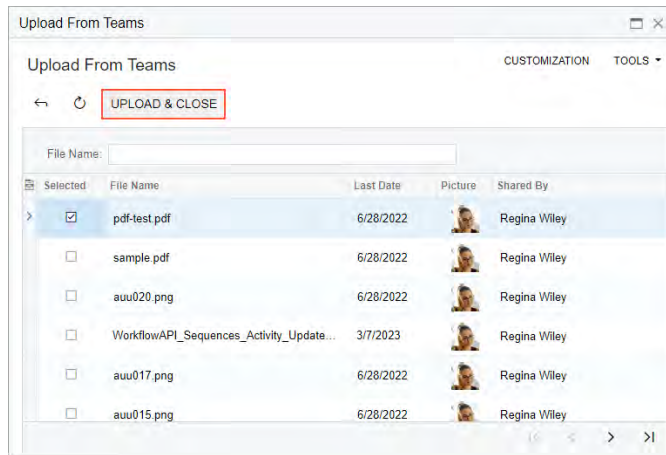


Figure: The Upload From Teams dialog box

The user is then returned to the **Files** dialog box, where they click **Upload** to import the file into Acumatica ERP.

Sharing Acumatica ERP Records via Teams

Users can share records in Acumatica ERP via Teams. To share a record, the user opens the record on the applicable Acumatica ERP form, switches to the **Activities** tab (see Item 1 in the following screenshot), clicks **Create Activity** (Item 2), and clicks **Create Teams** (Item 3).

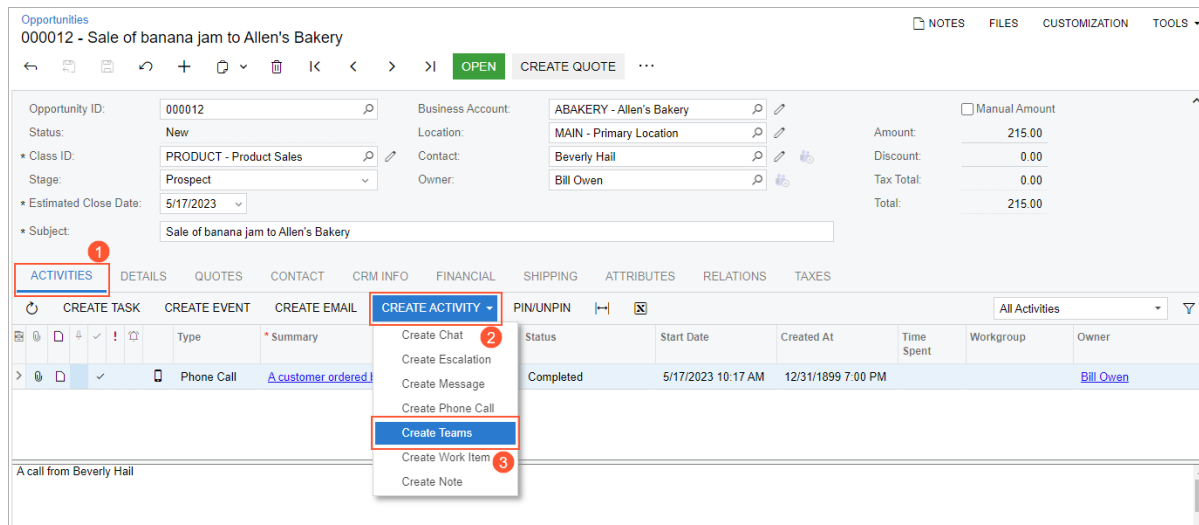


Figure: The Activities tab of a record that can be shared

If a form does not contain the **Activities** tab, the user clicks **Activity** on the form title bar (see Item 1 in the following screenshot). Then in the **Tasks & Activities** dialog box (which opens), the user clicks **Add Activity** (Item 2), and clicks **Teams** (Item 3). The screenshot shows this dialog box on the **Purchase Orders** (PO301000) form, which does not have the **Activities** tab.

The screenshot shows the 'Purchase Orders' form for 'Normal 000003 - All Fruits Mail'. The 'ACTIVITIES' tab is selected, indicated by a red box and a red circle with the number 1. A 'Tasks & Activities' dialog box is open, showing options to 'ADD TASK', 'ADD EVENT', 'ADD EMAIL', and 'ADD ACTIVITY'. The 'ADD ACTIVITY' button is highlighted with a red box and a red circle with the number 2. A dropdown menu is open from 'ADD ACTIVITY', showing options: Chat, Escalation, Message, Note, Phone Call, Teams, and Work Item. The 'Teams' option is highlighted with a red box and a red circle with the number 3.

Figure: Creation of an activity on the Purchase Orders form

On the *Teams Activity* (CR306040) form, which opens, the user specifies the recipient of the message, which is either a channel in Teams or a Teams member. Then the user specifies a summary for the message and types the message itself. Optionally, the user can attach files to the message. To send the message, the user clicks **Send** on the form toolbar (see the following screenshot).

The screenshot shows the 'Teams Activity' form. The 'SEND' button is highlighted with a red box. The form has fields for 'Channel' (Support General), 'Member', and 'Summary' (Review the document). A lead card is displayed on the right side of the form, showing details for a lead named 'Lead' with job title 'Manager', email 'chris.taylor@sweettooth.example.com', and account 'SweetTooth Cafe'. The form also has a 'MESSAGE' tab and a 'DETAILS' tab. The 'MESSAGE' tab is selected, and the text 'Please take a look at the document' is entered in the message field.

Figure: The Teams Activity form

Sending Automatic Notifications to Teams

Teams can be defined as a subscriber for business event notifications. (For more information about business events, see [Using Business Events](#).) The user needs to create a Teams template on the *Teams Notification* (SM204006) form before Teams can be configured as a subscriber for business events (see the following screenshot).

Teams Notification NOTES FILES CUSTOMIZATION TOOLS

Notification ID: * Screen:

* Description:

Subject:

Channel:

MESSAGE **SEND BY EVENTS**

VISUAL **B I U** **A** **INSERT LAYOUT TABLES**

Dear Project Manager,

A project assigned to you has just been activated.

Information about the project is available [here](#).

Sincerely,
Acumatica ERP System

Figure: The new Teams Notification form

After the Teams notification template is created, it can be added as a subscriber to a business event on the **Send By Events** tab of the *Teams Notification* form (see the following screenshot).

Teams Notification NOTES FILES CUSTOMIZATION TOOLS

Notification ID: * Screen:

* Description:

Subject:

Channel:

MESSAGE **SEND BY EVENTS**

CREATE BUSINESS EVENT

Event ID	Description	Active	Type
Project Activated	Project Activated	<input checked="" type="checkbox"/>	Trigger by Record Change

Figure: The Send By Events tab of the Teams Notification form

Alternatively, the Teams notification template can be added as a subscriber to a business event on the **Subscribers** tab of the *Business Events* (SM302050) form (see the following screenshot).

Business Events NOTES FILES CUSTOMIZATION TOOLS

Project Activated VIEW SCREEN VIEW HISTORY

* Event ID: ☒ Active * Screen Name:

* Type: Screen ID:

Raise Event:

Description:

TRIGGER CONDITIONS **SUBSCRIBERS** **FIELDS TO TRACK**

CREATE SUBSCRIBER

Active	Type	Subscriber ID	Stop on Error
<input checked="" type="checkbox"/>	Teams Notification	Project activated	<input type="checkbox"/>

Figure: The Subscribers tab of the Business Events form

Integrations: Support of the FedEx REST API

In previous versions of Acumatica ERP, FedEx Web Services API V10 was used for the integration of the FedEx carrier service. Recently, FedEx informed developers that the service plans to stop supporting the Web Services API in the near future.

In Acumatica ERP 2023 R1, support of the FedEx REST API has been implemented to ensure that the users will be able to use the FedEx carrier service. Currently, both the FedEx Web Services API and the FedEx REST API are supported.

Configuration of a FedEx Carrier with the REST API

To provide the ability to use the FedEx carrier service via REST API, the new `PX.FedExRestCarrier.FedExRestCarrier` plug-in has been added to the system. If a company is going to use the FedEx carrier service via the REST API, on the [Carriers](#) (CS207700) form, the system administrator must create a new project in the existing FedEx account. Then in Acumatica ERP, the system administrator creates a new carrier and selects the `PX.FedExRestCarrier.FedExRestCarrier` plug-in in the **Plug-In (Type)** box or replaces the `PX.FedExCarrier.FedExCarrier` plug-in with the `PX.FedExRestCarrier.FedExRestCarrier` plug-in for existing FedEx carriers.

The `PX.FedExRestCarrier.FedExRestCarrier` plug-in has the same parameters as the `PX.FedExCarrier.FedExCarrier` plug-in except for **External App ID** (shown in the screenshot below), which is an additional parameter required to secure requests via the REST API. Also, the **Endpoint** parameter of the `PX.FedExCarrier.FedExCarrier` plug-in has been renamed to **Rate Endpoint** in the `PX.FedExCarrier.FedExCarrier` plug-in.

Carriers

USPS - USPS via Stamps.com

TEST CONNECTION

* Carrier ID: Carrier Units:

Description: * Kilogram:

* Plug-In (Type): * Centimeter:

Warehouse:

PLUG-IN PARAMETERS CUSTOMER ACCOUNTS

ID	Description	Value
ACCOUNTID	Account number	
EXTERNAL APP ID	The application ID of FedEx Carrier Service on...	0
CANCEL ENDPOINT	FedEx cancel service URL	
RATE ENDPOINT	FedEx rate service URL	
SHIP ENDPOINT	FedEx shipping service URL	
SHIPPER FROM	Source of information about the shipper's cont...	Company Branch
NOTIFY	Send notifications to the recipient	<input type="checkbox"/>
DROPOFF	Method of delivery to FedEx	CONTACT_FEDEX_TO_SCHEDULE
LBL FORMAT	Type of data stream or bitmap to be returned f...	DOC

Figure: New parameter of the PX.FedExRestCarrier.FedExRestCarrier plug-in

The **External App ID** parameter is required to validate the requests to the FedEx service and make the connection secure. To obtain the value of the **External App ID** parameter, the system administrator creates a new record on the [External Applications](#) (SM301000) form and selects the *FedEx Carrier Service* option in the **Type** box. Then the administrator specifies any name in the **Application Name** box and the values provided by the FedEx service in the **Client ID** and **Client Secret** boxes. The administrator can obtain the **Client ID** and **Client Secret** values from the new REST API project in the FedEx account.

When all required data is specified, the system administrator saves the record and clicks **Sign In** on the form toolbar of the [External Applications](#) form. The system automatically generates the values of the **Application ID** and **Expires On (UTC)** boxes (as shown in the following screenshot) and the token that will be sent to the FedEx service with each request. The system administrator copies the value of the **Application ID** box on the [External Applications](#) form to the **Value** column in the row of the **External App ID** parameter on the [Carriers](#) (CS207700) form.

Search...

External Applications

SIGN IN

APPLICATION

Application ID: 6

Type: FedEx Carrier Service

Application Name: FedEx Token

Client ID: I7e9c6b44442914d99b2ab2ac212a0013

Client Secret: *****

Return Url: https://localhost:8080/23093019100041/OAuthAuthenticat

AUTHENTICATION TOKEN

Bearer:

Expires On (UTC): 1/16/2023 6:42 PM

Figure: Settings on the External Applications form

When the carrier's settings are specified and the carrier is saved on the [Carriers](#) form, the administrator can validate the credentials of the FedEx account specified in the plug-in parameters by clicking **Test Connection** on the form toolbar. If the test connection is successful, the new carrier can be used in processing of shipments in the same way as the FedEx carrier based on the FedEx Web Services API.

Inventory and Order Management: Ability to Disable Automatic Calculation of Taxes in Sales Orders and Invoices

In previous versions of Acumatica ERP, when an invoice was created for a sales order, the taxes were always recalculated on the [Invoices](#) (SO303000) form according to the tax configuration settings in the system. But for most of the e-commerce customers of Acumatica, the taxes are calculated in external e-commerce systems and then imported to Acumatica ERP. Such customers could have tax rates configured inaccurately or not configured at all in Acumatica ERP and thus, the recalculation of taxes in the updated sales orders or prepared invoices could cause incorrect amounts in documents provided to the customer.

In Acumatica ERP 2023 R1, the ability to turn off automatic tax calculation in order to preserve imported or manually entered taxes has been introduced.

Changes to Sales-Related Forms

On the [Order Types](#) (SO201000) form, the new **Disable Automatic Tax Calculation** check box has been added (shown in the screenshot below). This check box defines the default state of the **Disable Automatic Tax Calculation** check box in new sales orders on the [Sales Orders](#) (SO301000) form. The check box should be selected for the order types that will be used for orders imported from e-commerce stores, or for orders in which taxes will be specified manually. The check box does not appear for order types that have the *Transfer Order* and *Blanket Order* options specified in the **Automation Behavior** box on the **Template** tab of the [Order Types](#) form.

The screenshot displays the 'Order Types' form (SO201000) in Acumatica ERP. The form is titled 'SO - Sales Order' and includes tabs for 'GENERAL', 'TEMPLATE', and 'QUICK PROCESSING'. The 'GENERAL' tab is active, showing various settings for the order type. In the 'ORDER SETTINGS' section, the 'Disable Automatic Tax Calculation' checkbox is highlighted with a red box. Other settings include 'Order Numbering Sequence' (SOORDER), 'Days To Keep' (0), and 'Calculate Freight' (checked). The 'ACCOUNTS RECEIVABLE SETTINGS' section shows 'Invoice Numbering Sequence' (ARINVOICE) and 'Mark as Printed' (unchecked). The 'POSTING SETTINGS' section includes 'Use Sales Account from' (Inventory Item), 'Freight Account' (51300 - COGS - Freight), 'Use Freight Account from' (Ship Via), 'Discount Account' (Customer Location), and 'Use Discount Account from' (Customer Location).

Figure: The Disable Automatic Tax Calculation on the Order Types form

On the [Sales Orders](#) (SO301000) form, the **Disable Automatic Tax Calculation** check box has been added to the **Financial** tab (shown in the following screenshot). This check box indicates (if selected) that the taxes specified on the **Taxes** tab of the [Sales Orders](#) form will not be automatically recalculated when the lines of the sales order are updated. The state of this check box can be manually changed by the user.

Sales Orders
SO 000066 - FourStar Coffee & Sweets Shop

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

QUICK PROCESS CREATE SHIPMENT HOLD

Order Type: SO Order Nbr.: 000066 Status: Open Date: 10/31/2022 Requested On: 10/31/2022 Customer Ord.: External Refer.: Customer: COFFEESHOP - FourStar Coffee & Sweets Location: MAIN - Primary Location Contact: Andrea A. Weaver Project: X - Non-Project Code Description: Imported order #7234

Order Total: 983.14

DETAILS TAXES FINANCIAL SHIPPING ADDRESSES SHIPMENTS PAYMENTS RELATIONS TOTALS

FINANCIAL INFORMATION

Branch: HEADOFFICE - SweetLife Head Office

☒ Disable Automatic Tax Calculation

Customer Tax Zone: NYSTATE - NY State Tax

Invoice Nbr.: Invoice Date: Terms: 30D - 30 Days Due Date:

PAYMENT INFORMATION

Payment Method: CHECK - Check Payment Card/Account Nbr.: Cash Account: 10200WH - Wholesale Checking

OWNERSHIP

Workgroup: Owner: Kimberly Gibbs

OTHER INFORMATION

Orig. Order Type: Orig. Order Nbr.:

Figure: The Disable Automatic Tax Calculation on the Sales Orders form

When an invoice is created for such a sales order on the [Invoices](#) (SO303000) form, the system does not recalculate taxes in this invoice. The read-only **Disable Automatic Tax Calculation** check box has also been added to the **Financial** tab of the [Invoices](#) form to inform the user that the taxes are not recalculated if this check box is selected (shown in the following screenshot). In case of partial invoices, the whole tax amount from a sales order is transferred to the first created invoice.

Invoices
Invoice 000113 - FourStar Coffee & Sweets Shop

NOTES

RELEASE HOLD

Type: Invoice Reference Nbr.: 000113 Status: Balanced Date: 10/31/2022 Post Period: 10-2022 Customer Ord.: Project/Contract: X - Non-Project Code Description: Imported order #7234

Customer: COFFEESHOP - FourStar Coffee & Sweets Location: MAIN - Primary Location Terms: 30D - 30 Days Due Date: 11/30/2022 Cash Discount: 11/30/2022

Detail Total: 903.00 Discount Total: 0.00 Tax Total: 80.14 Write-Off Total: 0.00 Balance: 983.14 Cash Discount: 0.00

DETAILS TAXES FREIGHT FINANCIAL ADDRESSES APPLICATIONS

LINK TO GL

Batch Nbr.: Branch: HEADOFFICE - SweetLife Head Office AR Account: 11000 - Accounts Receivable Original Document:

OWNERSHIP

Workgroup ID: Owner:

PAYMENT INFORMATION

Payment Method: CHECK Card/Account Nbr.: Cash Account: 10200WH - Wholesale Checking

TAX INFO

☐ Disable Automatic Tax Calculation

Customer Tax Zone: NYSTATE - NY State Tax Tax Calculation Mode: Tax Settings

Figure: The Disable Automatic Tax Calculation check box on the Invoices form

Changes to Commerce-Related Forms

On the [BigCommerce Stores](#) (BC201000) or [Shopify Stores](#) (BC201010) form (**Order Settings** tab), an administrative user specifies the order type in the **Order Type for Import** box. Orders imported from an e-commerce store are created on the [Sales Orders](#) (SO301000) form with this order type. If the user selects the **Tax Synchronization**

check box, the system displays a warning message if the **Disable Automatic Tax Calculation** check box is cleared for the order type on the [Order Types](#) (SO201000) form. The following screenshot shows the warning message on the [Shopify Stores](#) form.

The screenshot shows the 'Shopify Stores' form for 'SweetStore - SP'. The 'ORDER SETTINGS' tab is active. In the 'ORDER' section, the 'Order Type for Import' is set to 'EO - eCommerce Order'. A yellow warning message box is displayed, stating: 'The Disable Automatic Tax Calculation check box is cleared for the EO order type on the Order Types (SO201000) form. Taxes in sales orders imported from the Shopify store will be recalculated on invoice creation.' Below the warning, the 'Tax Synchronization' checkbox is checked. The 'WAREHOUSE MAPPING FOR ORDER IMPORT' table shows two mappings: '2330 Hoffman Aven...' to 'RETAIL' (MAIN) and 'WH1' to 'WHOLESALE' (L1R1S1).

* Shopify Location	* Warehouse	Location ID
> 2330 Hoffman Aven...	RETAIL	MAIN
WH1	WHOLESALE	L1R1S1

Figure: A warning message on the Shopify Stores form

Limitations of the Functionality

The following limitations apply to the new functionality:

- The functionality does not work with taxes that have the *Inclusive Line-Level* or *Inclusive Document-Level* calculation rule selected on the [Taxes](#) (TX205000) form.
- The functionality does not work if the *Gross* option is selected in the **Tax Calculation Method** box on the **Financial** tab of the [Sales Orders](#) (SO301000) form for the customer in the sales order while the *Net/Gross Entry Mode* feature is enabled on the [Enable/Disable Features](#) (CS100000) form.
- The new feature is incompatible with the functionality provided by the *Estimating* feature of Acumatica ERP Manufacturing Edition.

Inventory and Order Management: Improvements in Blanket Purchase Orders

In previous versions of Acumatica ERP, users could not track the actual quantity of received items in a purchase order of the *Blanket* type while viewing the order on the [Purchase Orders](#) (PO301000) form. In each child order of the blanket purchase order, the **Qty. on Receipts** column on the **Details** tab of the form showed the quantity of the line item that has been received according to all purchase receipts. That is, if a vendor delivered only part of the item's quantity, the shortage was reflected in the **Qty. on Receipts** column for a line of the child order but in the blanket purchase order, the **Qty. on Receipts** value always remained the same.

In Acumatica ERP 2023 R1, the tracking of items' receipts has been improved for the blanket purchase orders.

New Columns for Blanket Purchase Orders

On the [Purchase Orders](#) (PO301000) form, if the purchase order has the *Blanket* type, the following new columns are displayed in the table on the **Details** tab (as shown in the screenshot below):

- **Qty. on Orders:** The sum of the following quantities of the item in all lines of the related child orders, which are specified for those orders on the **Details** tab of the [Purchase Orders](#) form:
 - The sum of the item's quantities in the **Order Qty.** column for all incomplete lines and lines with the *Service* type
 - The sum of the item's quantities in the **Qty. on Receipts** column for all completed lines
- **Blanket Open Qty.:** The quantity of the line of the blanket purchase order in the **Order Qty.** column minus the quantity in the **Qty. on Orders** column.

Branch	Inventory ID	Line Type	Warehouse	Line Description	UOM	Order Qty.	Qty. On Orders	Blanket Open Qty.	Qty. On Receipts
HEADOFFICE	APJAM96	Goods for IN	WHOLESALE	Apple jam 96 oz	PIECE	100.00	30.00	70.00	30.00

Figure: New columns for blanket purchase orders

For a line of a blanket purchase order, the quantity in the **Qty. on Receipts** column is now calculated as the sum of the quantities of the item in the same column from the related lines of all child orders that have been created for this blanket purchase order.

Updated Rules of Completion for Lines of the Blanket Purchase Orders

The rules of completion for lines of blanket purchase orders have been updated as follows:

- If the line has the *Goods for IN*, *Non-Stock*, *Goods for Drop-Ship*, or *Non-Stock for Drop-Ship* type and the non-stock item in the *Non-Stock* or *Non-Stock for Drop-Ship* line has *By Quantity* selected in the **Close PO Line** box of the [Non-Stock Items](#) (IN202000) form, completing and closing occur as follows:
 - The line is completed when all related lines in child orders are completed and **Qty. on Receipts** on the **Details** tab of the [Purchase Orders](#) (PO301000) form for the blanket order line is greater than or equal to the results of the following calculation for the line: $\text{Order Qty.} * \text{Complete On \%} / 100$.

- The line is closed when the **Completed** check box on the **Details** tab of the [Purchase Orders](#) form is selected and all related lines in child orders are closed.
- If the line has the *Service* type and the item in the line has *By Quantity* selected in the **Close PO Line** box of the [Non-Stock Items](#) form, the line is completed and closed when both of the following conditions are met:
 - For the blanket order line, the quantity in the **Billed Qty.** column on the **Details** tab of the [Purchase Orders](#) form is greater than or equal to the results of the following calculation: $\text{Order Qty.} * \text{Complete On \%} / 100$.
 - All related lines in child orders are completed and closed.
- If the line has the *Non-Stock* and *Service* type and the item in the line has *By Amount* selected in the **Close PO Line** box of the [Non-Stock Items](#) form, the line is completed and closed when both of the following conditions are met:
 - For the blanket order line, the amount in the **Billed Amount** column on the **Details** tab of the [Purchase Orders](#) form is greater than or equal to the value in the **Amount** column.
 - All related lines in child orders are completed and closed.

Inventory and Order Management: Improvements in the Handling of Commercial Invoices

In Acumatica ERP, if a shipment with an international delivery has a carrier for which the ShipEngine plug-in is specified on the [Carriers](#) (CS207700) form, a commercial invoice document is attached to the shipment package along with a regular carrier label. In previous versions of Acumatica ERP, these attachments could not be printed if a user selected *Print Labels* in the **Actions** box on the [Process Shipments](#) (SO503000) form because the system expected only one file (the regular carrier label) to be attached to each package.

In Acumatica ERP 2023 R1, improvements have been made to the handling of commercial invoices for international shipments via the ShipEngine carrier service, as described below.

New Printed Form for Commercial Invoices

By using the new [Commercial Invoices](#) (SO645010) printed form, a user can configure the printing of the commercial invoices for international shipments created as part of the ShipEngine integration. A link to the form has been added to the **Printed Forms** category of the **Sales Orders** workspace of Acumatica ERP.

Changes to the Sales Orders Preferences Form

On the **Mailing & Printing** tab of the [Sales Orders Preferences](#) (SO101000) form, a system administrator can specify the default printer for commercial invoices (as shown in the following screenshot) if the *DeviceHub* feature is enabled on the [Enable/Disable Features](#) (CS100000) form.

The screenshot shows the 'Sales Orders Preferences' form with the 'MAILING & PRINTING' tab selected. Under the 'Default Sources' section, there is a table with columns: Active, Mailing ID, Branch, Default Email Account, Default Printer, Report ID, Email Template, Ship Via, Form, and Recipients. The 'COMMERCIAL INVOICE' row is selected, and a red box highlights the 'Default Printer' field, which contains the value 'COMINVROOM4'. The 'Report ID' for this row is 'SO.64.50.10'. Below the table, there is a 'Default Recipients' section which currently shows 'No records found'.

Active	Mailing ID	Branch	Default Email Account	Default Printer	Report ID	Email Template	Ship Via	Form	Recipients
<input checked="" type="checkbox"/>	SALES ORDER				SO.64.10.10			PDF	Add Recipients
<input checked="" type="checkbox"/>	SO INVOICE				SO.64.30.00			PDF	Add Recipients
<input checked="" type="checkbox"/>	COMMERCIAL INVOICE			COMINVROOM4	SO.64.50.10			PDF	Add Recipients

Figure: Specification of the default printer

Also, the **Print Commercial Invoices Automatically** check box has been added to the **Warehouse Management** tab of the [Sales Orders Preferences](#) (SO101000) form. The state of this check box determines the default state of the check box with the same name on the **Settings** dialog box of the [Pick, Pack, and Ship](#) (SO302020) form.

Changes to the Shipments and Process Shipments Forms

The **Print Commercial Invoice** command has been added to the More menu on the [Shipments](#) (SO302000) form (shown in the following screenshot). A user can click this command to open the printed form for the commercial invoice of the selected shipment.

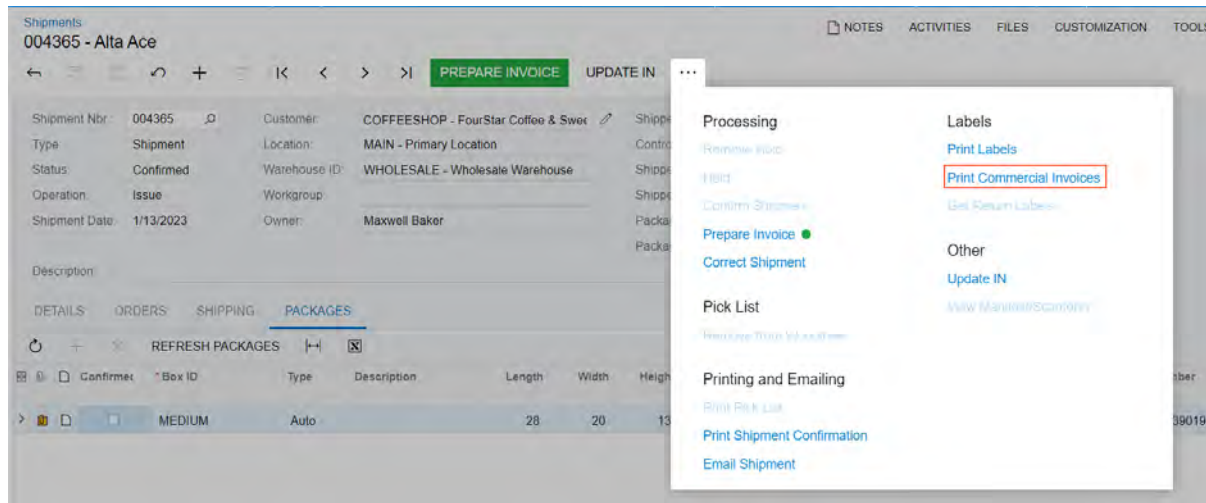


Figure: The *Print Commercial Invoice* command on the *Shipments* form

Also, the *Print Commercial Invoice* option has been added to the **Action** box on the *Process Shipments* (SO503000) form. A user can select this action to print commercial invoices for the shipments that are selected on the form.

Changes to the Pick, Pack, and Ship Form

The **Print Commercial Invoices Automatically** check box has been added to the **Settings** dialog box of the *Pick, Pack, and Ship* (SO302020) form. (See the following screenshot.) A user opens this dialog box by clicking **User Settings** on the form toolbar. If this check box is selected, the commercial invoice for a shipment is printed automatically as soon as the shipment is confirmed on the form.

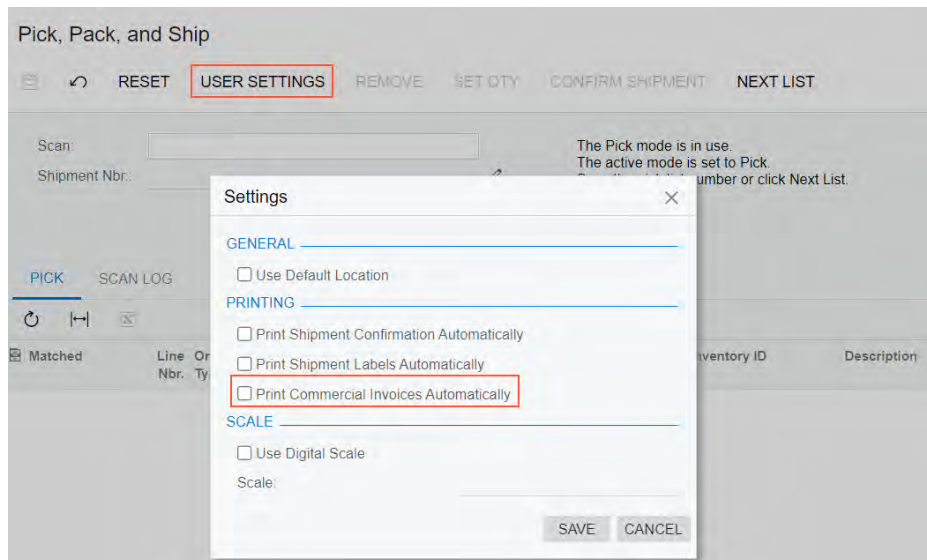


Figure: The *Print Commercial Invoices Automatically* check box in the *Settings* dialog box

Inventory and Order Management: Improvements in Templates for Matrix Items

In Acumatica ERP 2023 R1, the ability to define the set of attributes for new matrix items has been implemented at the level of template items.

Configuration of Attributes in Template Items

In previous versions of Acumatica ERP, the set of variance attributes for matrix items could be defined only at the item class level on the [Item Classes](#) (IN201000) form. If a user needed to create matrix items for goods that shared most of the characteristics but differed in details, they had to create multiple item classes to generate relevant matrix items. For example, suppose that all brands of T-shirts have such characteristics as size, color, and material, but only some brands of T-shirts have prints. In this case, previously the user would need two item classes to make sure that the T-shirts without prints would not have redundant attributes.

Starting in 2023 R1, the user can define a custom set of variance attributes for each template item of an item class. The new unlabeled Active column has been added to the **Attributes** table on the **Configuration** tab of the [Template Items](#) (IN203000) form (shown in the following screenshot). By selecting the check box next to particular attributes, the user can define which attributes will be used for the matrix items of a particular template item. If the Active check box is selected, the attribute will be used to generate the matrix item, and if the Active check box is cleared, the attribute will be skipped during generation. Thus, multiple template items can be defined that vary by the list of attributes within a single item class.

Template Items NOTES

TSHIRTBRAND1 - The best t-shirts

← ↻ 📄 ↶ + 🗑️ 📄 > ⏪ < > ⏩ CREATE MATRIX ITEMS UPDATE MATRIX ITEMS ...

* Template ID: TSHIRTBRAND1 ☒ Stock Item

Description: The best t-shirts

GENERAL FULFILLMENT PRICE/COST VENDORS GLACCOUNTS DESCRIPTION **CONFIGURATION** ITEM CREATION

ATTRIBUTES

Attribute	Requi	Category	Value	
Item color	<input type="checkbox"/>	Variant		<input checked="" type="checkbox"/>
Item material	<input type="checkbox"/>	Variant		<input checked="" type="checkbox"/>
> Item print	<input type="checkbox"/>	Variant		<input type="checkbox"/>
Item size	<input type="checkbox"/>	Variant		<input checked="" type="checkbox"/>

* Default Colum... COLOR - Item color

* Default Row At... SIZE - Item size

Image:

Figure: The Active check box on the Template Items form

If at least one matrix item has been created for a template item, the Active check box in the **Attributes** table becomes unavailable for editing for all attributes in this template item.

Inventory and Order Management: Negative Quantity in Orders Whose Type Has Active Receipt and Issue Operations

In Acumatica ERP 2023 R1, on the [Sales Orders](#) (SO301000) form, a user can specify a negative quantity in a line of a sales order whose order type has the applicable settings, as described in the next section. Also, the user no longer needs to manually change the operation type in the **Operation** column on the **Details** tab of the [Sales Orders](#) form.

Settings of an Applicable Sales Order Type

On the [Sales Orders](#) (SO301000) form, a user can now specify negative line quantities in orders with an order type for which the following conditions are met on the **Template** tab of the [Order Types](#) (SO201000) form:

- *RMA Order, Invoice, or Mixed Order* is selected as the automation behavior. This setting determines how the sales order is processed. (For details about an order type with the *Mixed Order* automation behavior, see [Inventory and Order Management: Sales Orders Based on the Mixed Order Automation Behavior](#).)
- In the **Operations** table, both the *Issue* operation and the *Receipt* operation are listed and defined as active.

Negative Quantity in a Sales Order Line

In previous versions of Acumatica ERP, if a user created a sales order on the [Sales Orders](#) (SO301000) form of an order type with the applicable settings described in the previous section and added a line on the **Details** tab, the user had to manually change the **Operation** value for each line that required this change. This slowed the data entry process.

Starting in Acumatica ERP 2023 R1, for a sales order whose order type (see Item 1 in the following screenshot) has the applicable settings, if a user adds a new line on the **Details** tab of the [Sales Orders](#) form for the order, the default operation of the order type is inserted in the **Operation** column. The default operation is the operation specified on the **Templates** tab of the [Order Types](#) (SO201000) form for the sales order type. Depending on whether the value in the **Quantity** column for the new line is positive or negative, the value in the **Operation** column is affected as follows:

- If a user specifies a positive value, the default operation type remains.
- If the user specifies a negative value (Item 2), the default operation is automatically changed to the opposite operation (Item 3).

The user can no longer manually change the operation in the **Operation** column.

Sales Orders

RM SO006768 - ABC Studios Inc

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

CREATE RECEIPT CREATE SHIPMENT

* Order Type: RM * Customer: ABCSTUDIOS - ABC Studios Inc Ordered Qty.: 5.00

Order Nbr.: SO006768 * Location: MAIN - Primary Location Discount Total: 0.00

Status: Open Contact: Travis Harper VAT Exempt T... 0.00

* Date: 11/23/2022 Currency: USD 1.00 VIEW BASE VAT Taxable T... 0.00

* Requested On: 11/23/2022 * Project: X - Non-Project Code. Tax Total: 0.00

Customer Ord... Order Total: 0.00

External Refer... Description: Return of laptops

DETAILS TAXES COMMISSIONS FINANCIAL SHIPPING ADDRESSES DISCOUNTS SHIPMENTS PAYMENTS RELATIONS TOTALS

ADD ITEMS ADD MATRIX ITEMS ADD INVOICE LINE DETAILS PO LINK ITEM AVAILABILITY

Branch	Warehouse	Invoice Nbr.	Operation	* Inventory ID	Line Description	* UOM	Quantity	Related Items
PRODWHOLE	WHOLESALE		Receipt	AACOMPUT01	Acer Laptop Computer	EA	-5.00	
PRODWHOLE	WHOLESALE		Issue	AACOMPUT01	Acer Laptop Computer	EA	5.00	

On Hand 205.00 EA, Available 200.00 EA, Available for Shipping 205.00 EA, Allocated 0.00 EA

Figure: The changed operation type in a line with a negative quantity

For a sales order whose order type has the applicable settings on the [Sales Orders](#) form, if a line quantity is negative, the system changes the values in the **Qty. on Shipments**, **Open Qty.**, **Ext. Price**, **Discount Amount**, **Amount** and **Unbilled Amount** columns to also be negative.

A user can click any line on the **Details** tab and click **Line Details** on the table toolbar to open the **Line Details** dialog box and view the line splits. If a negative quantity has been specified for a sales order line, the line quantity in the dialog box remains positive, as shown in the following screenshot.

Sales Orders

RM SO006768 - ABC Studios Inc

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

CREATE RECEIPT CREATE SHIPMENT

* Order Type: RM * Customer: ABCSTUDIOS - ABC Studios Inc Ordered Qty.: 0.00

Order Nbr.: SO006768 * Location: MAIN - Primary Location Discount Total: 0.00

Status: Open Contact: Travis Harper VAT Exempt T... 0.00

* Date: 11/23/2022 Currency: USD 1.00 VIEW BASE VAT Taxable T... 0.00

* Requested On: 11/23/2022 * Project: X - Non-Project Code. Tax Total: 0.00

Customer Ord... Order Total: 0.00

External Refer... Description: Return of laptops

DETAILS TAXES COMMISSIONS FINANCIAL SHIPPING ADDRESSES DISCOUNTS SHIPMENTS PAYMENTS RELATIONS TOTALS

ADD ITEMS ADD MATRIX ITEMS ADD INVOICE LINE DETAILS PO LINK ITEM AVAILABILITY

Branch	Warehouse	Invoice Nbr.	Operation	* Inventory ID	Line Description	* UOM	Quantity	Related Items
PRODWHOLE	WHOLESALE		Receipt	AACOMPUT01	Acer Laptop Computer	EA	-5.00	
PRODWHOLE	WHOLESALE		Issue	AACOMPUT01	Acer Laptop Computer	EA	5.00	

On Hand 205.00 EA, Available 200.00 EA, Available for Shipping 205.00 EA, Allocated 0.00 EA

Line Details

Active

Ship On	Allocated	Alloc. Warehouse	Compl	* Lot/Serial Nbr.	Quantity	Qty. On Shipmen	Qty. Received	UOM	Mark for PO	Relat Docu
11/23/2022		WHOLESALE			5.00	0.00	0.00	EA		

OK

On Hand 200.00 EA, Available 200.00 EA, Available for Shipping 200.00 EA, Allocated 0.00 EA

Figure: Quantity in the Line Details dialog box

Negative Quantities in the Sales Order Report

In the [Sales Order](#) (SO641010) report, which shows a ready-to-print version of a sales order that has been defined on the [Sales Orders](#) (SO301000) form and whose order type has the applicable settings described in the previous sections, a minus sign is shown in the **Qty.** and **Extended Price** columns for an order line with a negative quantity (see the following screenshot).



Products Wholesale
11235 SE 6th St.
Suite 140
Bellevue, WA, 98004
Phone: 206-555-1212
Web: www.revisiontwo.com

RMA Order

Order No.: SO006768
Order Date: 11/23/2022
Delivery Date: 11/23/2022
Customer ID: ABCSTUDIOS
Currency: USD
For: Travis Harper

FOR:	SHIP TO:	BILL TO:
ABC Studios Inc 77 W 66th St # 13 New York NY 10023 United States of America	ABC Studios Inc 77 W 66th St # 13 New York NY 10023 United States of America Attn: Receiving	ABC Studios Inc 77 W 66th St # 13 New York NY 10023 United States of America Attn: Liz Lemon

CUSTOMER P.O. NO.	TERMS	CONTACT
	30 Days	Maxwell Baker, mbaker@revisiontwo.com
FOB POINT	SHIPPING TERMS	SHIP VIA

NO.	ITEM	QTY. UOM	PRICE	DISC.	EXTENDED PRICE
1	AACOMPUT01: Acer Laptop Computer	-5.00 EA	500.00	0%	-2,500.00

Figure: Negative quantities in the Sales Order printed form

Copying of Orders Whose Type Has Active Receipt and Issue Operations

In Acumatica ERP 2023 R1, on the [Sales Orders](#) (SO301000) form, suppose that a user wants to copy an order with the *RMA Order*, *Mixed Order*, or *Invoice* automation behavior and the active *Issue* and *Receipt* operations to create another order with either automation behavior and the same active operations. The user copies this order by clicking **Copy Order** on the More menu. The system does the following for each line of the new order on the **Details** tab:

- Inserts the line quantity from the copied order
- Determines the operation type of the line based on the inserted line quantity (positive or negative) and inserts this type

Important: Improved Data Entry Validation

The ability to enter negative quantities in Acumatica ERP 2023 R1 includes enhanced data entry validation in sales order lines on the **Details** tab of the [Sales Orders](#) (SO301000) form. This validation affects the values a user can enter in the **Unit Price** and **Ext. Price** columns of a line as follows:

- If the **Qty.** value of the line is positive, the user can enter only 0 or a positive **Unit Price** or **Ext. Price** value. The user cannot enter a value preceded by the minus sign.

- If the **Qty.** value of the line is negative, the user can specify only 0 or a negative **Ext. Price** value. The user must precede the value with the minus sign.

Additional Information

For more information about predefined order types, see [Sales Order Types: General Information](#).

Inventory and Order Management: Predefined User Roles

In Acumatica ERP 2023 R1, predefined user roles have been added that provide access to the forms needed in the everyday work of employees related to the inventory and order management. Implementation managers can now use these predefined user roles instead of creating and setting up the roles from the ground up. The managers can also modify the role permissions to meet the organization's access policies. In smaller organizations, the managers can apply multiple roles to the same user who takes over multiple duties.

In the following table, the details of the predefined user roles are provided.

Role name	Description	Access Rights
<i>SO Admin</i>	A person who performs the setup of the sales order functionality and configures the sales processes.	<ul style="list-style-type: none"> • Full access to the sales orders functionality related to order fulfillment and sales orders settings • Full access to accounts receivable forms required for processing and review of sales orders such as Sales Prices (AR202000), Sales Price Worksheets (AR202010), and Discounts (AR209500) forms • Full access to the inventory functionality and settings affecting sales orders • Read-only access to purchase orders and receipts to view info related to sales orders that require purchasing • No access to forms related to automated warehouse operations
<i>SO Manager</i>	A person who creates sales orders, manages customer contracts (such as blanket sales orders), views account receivables invoices and payments, negotiates customer terms, manages approvals, and oversees the sales operations staff and their activities.	<ul style="list-style-type: none"> • Full access to the forms related to order fulfillment • Read-only access to forms with the sales orders settings • Full access to accounts receivable forms required for processing and review of sales orders such as Sales Prices (AR202000), Sales Price Worksheets (AR202010), and Discounts (AR209500) forms • Full access to inventory functionality affecting sales orders • Read-only access to purchase orders and receipts (to view info related to sales orders that require purchasing) • No access to forms related to automated warehouse operations

Role name	Description	Access Rights
<i>SO Clerk</i>	A person who enters data of sales orders, creates customer returns, prints and sends order confirmations, and manages customer inquiries.	<ul style="list-style-type: none"> • Limited access to sales orders functionality such as data entry and internal reporting • No access to the Sales Orders Preferences (SO101000) form • Read-only access to Sales Prices (AR202000), Sales Price Worksheets (AR202010), and Discounts (AR209500) forms and to inventory settings, order type settings, shipping-related settings, purchase order inquiries, and reports • No access to forms related to automated warehouse operations
<i>SO Viewer</i>	A person who can view the progress of the sales orders processing but cannot change them.	<ul style="list-style-type: none"> • Read-only access to the forms related to sales orders fulfillment • No access to the Sales Orders Preferences (SO101000) form, financial forms, automated warehouse operations forms
<i>PO Admin</i>	A person who performs the setup of the purchase orders functionality and configures the processes of purchasing.	<ul style="list-style-type: none"> • Full access to the purchase orders functionality related to the order fulfillment and purchase order settings • Full access to accounts payable forms required for processing and review of purchase orders such as Vendor Prices (AP202000), Vendor Price Worksheets (AP202010), and Vendor Discounts (AP205000) • Limited access to inventory settings required for purchase orders and replenishment, inventory inquiries, and reports • No access to forms related to automated warehouse operations

Role name	Description	Access Rights
<i>PO Manager</i>	A person who creates purchase orders and requisitions, views accounts payable bills and payments, negotiates vendor credit terms, manages vendor returns, manages approvals, and oversees the purchasing staff and their activities.	<ul style="list-style-type: none"> • Full access to the forms related to purchase order fulfillment and replenishment planning • Read-only access to the forms with the purchase orders settings • Full access to accounts payable forms required for processing and review of purchase orders such as Vendor Prices (AP202000), Vendor Price Worksheets (AP202010), and Vendor Discounts (AP205000) • Limited access to inventory settings required for all procurement processes, sales order inquiries, inventory inquiries and reports • No access to forms related to automated warehouse operations
<i>PO Buyer</i>	A person who procures inventory to replenish the warehouse stock levels or to fulfill orders (planning of purchases, creation of purchase orders, linking of purchase orders to fulfill sales orders), reviews seasonality and replenishment settings for optimization and procurement.	<ul style="list-style-type: none"> • Full access to the forms related to purchase order fulfillment and replenishment planning • Read-only access to the forms with settings related to shipping and transportation of items to the warehouse such as Landed Cost Codes (PO202000), FOB Points (CS208500), Ship via Codes (CS207500), and Carriers (CS207700) • No access to the Purchase Requisitions Preferences (RQ101000) and Purchase Orders Preferences (PO101000) forms • Full access to accounts payable forms required for processing and review of purchase orders such as Vendor Prices (AP202000), Vendor Price Worksheets (AP202010), and Vendor Discounts (AP205000) • Limited access to inventory settings required for replenishment and purchase orders, sales order inquiries, inventory inquiries, and reports • No access to forms related to automated warehouse operations

Role name	Description	Access Rights
<i>PO Clerk</i>	A person who enters data of purchase orders, creates vendor returns, and views inquiries and reports.	<ul style="list-style-type: none"> • Limited access to the purchase order functionality such as data entry forms and internal reporting • No access to the forms with the purchase orders settings • Read-only access to accounts payable profile settings such as Vendor Prices (AP202000), Vendor Price Worksheets (AP202010), and Vendor Discounts (AP205000) • Limited access to inventory settings required for purchase orders, sales order inquiries, and reports • No access to forms related to automated warehouse operations
<i>PO Viewer</i>	A person who can view the progress of the purchase orders processing but cannot change them.	<ul style="list-style-type: none"> • Read-only access to the forms related to order fulfillment • No access to forms with the purchase orders settings, financial forms, and automated warehouse operations forms
<i>IN Admin</i>	A person who performs the setup of the inventory functionality and configures the inventory processes.	<ul style="list-style-type: none"> • Full access to the inventory management functionality and settings • Full access to automated inventory operations for sales and purchases • Limited access to the purchasing and sales functionality required for the inventory management • Limited access to the purchasing and sales settings required for the inventory management
<i>IN Manager</i>	A person who analyzes and manages warehouse activities and performance, takes responsibility for the physical movement of goods to and from the warehouse as well as inventory optimization and efficiency within the warehouse, and oversees the warehouse staff and their activities.	<ul style="list-style-type: none"> • Full access to the inventory management functionality and settings • Limited access to the purchasing and sales functionality required for the inventory management • Read-only access to the purchasing and sales settings required for the inventory management • Full access to automated inventory operations for sales and purchases

Role name	Description	Access Rights
<i>IN Receiver</i>	A person who receives purchases, inbound transfers, and customer returns, puts away received goods into designated warehouse locations.	<ul style="list-style-type: none"> • Limited access to inventory functionality such as data entry, scanning of receipts, and internal reporting • No access to the forms with the inventory settings and settings of purchases and sales • Full access to the automated receiving and putting away functionality of the automated warehouse operations • No access to the automated picking and packing functionality of the automated warehouse operations • No access to financial information including pricing or inventory costs
<i>IN Shipper</i>	A person who picks, packs, and ships customer sales orders, outbound transfers, and vendor returns, and confirms shipments.	<ul style="list-style-type: none"> • Limited access to inventory functionality such as data entry, scanning of outbound shipments, and internal reporting • No access to the forms with the inventory settings and settings of purchases and sales • Full access to the automated picking and packing functionality of the automated warehouse operations • No access to the automated receiving and putting away functionality of the automated warehouse operations • No access to financial information, including pricing or inventory costs
<i>IN Clerk</i>	A person who performs cycle counts and inventory adjustments and restocks the inventory within the same warehouse according to the warehouse manager's plan.	<ul style="list-style-type: none"> • Limited access to the inventory functionality: data entry, scanning of physical inventory counts, and movement of goods to restock warehouse inventory locations • Read-only access to the forms with the inventory settings • No access to the inventory, purchasing, and sales settings required for the inventory management • No access to the automated warehouse operations and financial information, including pricing or inventory costs
<i>IN Viewer</i>	A person who can view the documents related to the warehouse processes and inventory settings but cannot change orders and settings.	<ul style="list-style-type: none"> • Read-only access to the forms related to inventory • No access to forms with the forms with settings, financial forms, automated warehouse operations forms

Role name	Description	Access Rights
<i>Customer Data Manager</i>	A person who is responsible for entering master data related to customer profiles.	<ul style="list-style-type: none"> Full access to customer's data entry and maintenance forms such as Customers (AR303000) and Customer Classes (AR201000) Read-only access to accounts receivable preferences No access to any processing forms, forms with general settings, reports, or inquiries
<i>Vendor Data Manager</i>	A person who is responsible for entering master data related to vendor profiles.	<ul style="list-style-type: none"> Full access to vendor's data entry and maintenance forms such as Vendors (AP303000) and Vendor Classes (AP201000) Read-only access to accounts payable preferences No access to any processing forms, forms with general settings, reports, or inquiries
<i>Inventory Data Manager</i>	A person who is responsible for entering master data related to inventory item profiles.	<ul style="list-style-type: none"> Full access to maintenance forms such as Non-Stock Items (IN202000), Stock Items (IN202500), and Item Classes (IN201000) forms No access to any processing forms, forms with general settings, reports, or inquiries

The following reports and form show details about access to forms:

- [Access Rights by Role](#) (SM651500)
- [Access Rights by Screen](#) (SM651700)
- [Access Rights by User](#) (SM201055)

On the following forms, the user can modify access rights for the user roles:

- [Access Rights by Screen](#) (SM201020)
- [Access Rights by Role](#) (SM651500)

Additional Information

For more information about user roles in the system, see [User Roles: General Information](#).

Inventory and Order Management: Sales Orders Based on the Mixed Order Automation Behavior

In Acumatica ERP 2023 R1, the new *Mixed Order* automation behavior, which determines how a sales order is processed, is introduced. By using a mixed order, a user can process both a sale and a return in the same order on the [Sales Orders](#) (SO301000) form as well as customer payments and refunds related to this order. A mixed order may be used if a customer needs to buy and return products or services (or replace the returned products) at the same time at a counter or through a point of sale (POS) system operated by a cashier. The *Mixed Order* automation behavior does not support shipments because it is designed for counter sales.

Order Type with the Mixed Order Automation Behavior

In previous versions of Acumatica ERP, if a user needed to process a customer sale and return with customer payments and refunds, the user had to create multiple documents of separate order types.

Starting in Acumatica ERP 2023 R1, a user can process an order with a positive or negative balance on the [Sales Orders](#) (SO301000) form. A user can now add lines with a positive quantity and lines with a negative quantity to an order and process either a customer payment or a customer refund based on the order's positive or negative balance. The *Mixed Order* automation behavior has been implemented to provide this simpler processing. The new *MO* predefined order type has been created on the [Order Types](#) (SO201000) form (see Item 1 in the following screenshot).

Order Types
MO - Mixed Order

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

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1 * Order Type: MO ☐ Active

Description: Mixed Order

Order Template: MO - Mixed Order

GENERAL TEMPLATE

2 Automation Behavior: Mixed Order

3 Default Operation: Issue

4 AR Document Type: Invoice/Credit Memo

5 ☐ Process Shipments

☐ Require Lot/Serial Entry

☐ Require Stock Allocation

6 ☐ Allow Quick Process

Operations

Operation	Active	Inventory Transaction Type	* Order Plan Type	* Shipment Plan Type	Require Reason Code
> Issue	<input checked="" type="checkbox"/>	Invoice	SO Shipped		<input type="checkbox"/>
Receipt	<input checked="" type="checkbox"/>	Credit Memo	SO Shipped		<input type="checkbox"/>

Figure: Settings of the new order type

On the **Template** tab, the *MO* type has both the *Issue* operation and the *Receipt* operation listed and active (see Item 7 in the previous screenshot). The following settings are also specified on the tab:

- **Automation Behavior:** *Mixed Order* (Item 2)

- **Default Operation:** *Issue* (Item 3)
- **AR Document Type:** *Invoice/Credit Memo* (Item 4)

The **Process Shipment** check box is cleared on the tab and unavailable for selection (Item 5). This indicates that for an order of the *MO* type, no shipment can be created during the processing.

Also on the **Template** tab, the **Allow Quick Process** check box is available for selection (see Item 6 in the screenshot above).



A system administrator can create a custom order type with the *Mixed Order* automation behavior and select either of the following options in the **AR Document Type** box:

- *Invoice/Credit Memo* if the company issues invoices for its goods sold or services rendered
- *Cash Sale/Cash Return* if the company receives cash for its goods or services

Preparation of a Mixed Order

In Acumatica ERP 2023 R1, a user can prepare an order of the *MO* type, which has both a sale and a return. For this mixed order, each new line that the user adds on the **Details** tab of the *Sales Orders* (SO301000) form has the *Issue* default operation in the **Operation** column. Depending on whether the value in the **Quantity** column for this line is positive or negative, the value in the **Operation** column is affected as follows:

- If the user specifies a positive quantity for the line (that is, the quantity should be issued for sale), the *Issue* operation remains unchanged. The amount in a line with the *Issue* operation increases the balance of the order.
- If the user specifies a negative quantity for the line (that is, the quantity should be returned by a customer), the operation is automatically changed from *Issue* to *Receipt*. The amount in a line with the *Receipt* operation decreases the balance of the order.

Preparation of Customer Payments and Refunds for a Mixed Order

If a mixed order has the *Open* status, a user can create a payment or refund by using the **Payments** tab of the *Sales Orders* (SO301000) form as a starting point as follows:

- If the **Order Total** value is positive, the user can click **Create Payment**, and a payment will be created.
- If the **Order Total** value is negative, the user can click **Create Refund**, and a refund will be created.

A user can delete an unreleased payment or unreleased refund from the system. On the table toolbar of the **Payments** tab, the **Delete Payment** (see the following screenshot) and **Delete Refund** (see the second screenshot below) buttons have been added. A user clicks the applicable payment or refund on the tab to select it and then clicks the applicable button, which deletes the payment or the refund, respectively, from the current tab and from the system.



A user cannot delete a credit card payment or refund by clicking these buttons. A credit card payment or refund can only be voided.

Sales Orders
MO AR010731 - ABC Holdings Inc

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

PREPARE INVOICE HOLD

Order Type: MO Customer: ABCHOLDING - ABC Holdings Inc Ordered Qty: 10.00
 Order Nbr.: AR010731 Location: MAIN - Primary Location Discount Total: 0.00
 Status: Open Contact: VAT Exempt T...: 0.00
 Date: 1/11/2023 Currency: USD 1.00 VIEW BASE VAT Taxable T...: 0.00
 Requested On: 1/11/2023 Project: X - Non-Project Code Tax Total: 0.00
 Customer Ord... Order Total: 190.70
 External Refer... Description:

DETAILS TAXES COMMISSIONS FINANCIAL SHIPPING ADDRESSES DISCOUNTS SHIPMENTS **PAYMENTS** RELATIONS TOTALS

CREATE PAYMENT **DELETE PAYMENT** VOID CARD PAYMENT CREATE REFUND Active

Doc. Type	Reference Nbr.	Applied To Order	Transferred to Invoice	Balance	Status	Payment Ref.	Payment Method
Payment	003939	190.70	0.00	0.00	Balanced	PMT03608	CHECK

Not Released: 190.70
 Released: 0.00
 Total Paid: 190.70
 Total Transferr...: 0.00
 Unpaid Balance: 0.00
 Unrefunded B...: 0.00
 Unbilled Balan...: 190.70

Figure: The Delete Payment button on the Sales Orders form

Sales Orders
MO AR010732 - USA Bartending School

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

PREPARE INVOICE HOLD

Order Type: MO Customer: ABARTENDE - USA Bartending Schor Ordered Qty: 2.00
 Order Nbr.: AR010732 Location: MAIN - Primary Location Discount Total: 0.00
 Status: Open Contact: Fadi Kabuk VAT Exempt T...: 0.00
 Date: 1/11/2023 Currency: USD 1.00 VIEW BASE VAT Taxable T...: 0.00
 Requested On: 1/11/2023 Project: X - Non-Project Code Tax Total: 0.00
 Customer Ord... Order Total: -1,375.00
 External Refer... Description:

DETAILS TAXES COMMISSIONS FINANCIAL SHIPPING ADDRESSES DISCOUNTS SHIPMENTS **PAYMENTS** RELATIONS TOTALS

CREATE PAYMENT VOID CARD PAYMENT **DELETE REFUND** Active

Doc. Type	Reference Nbr.	Applied To Order	Transferred to Invoice	Balance	Status	Payment Ref.	Payment Method	Cash Account
Refund	003940	1,375.00	0.00	0.00	Balanced	PMT03609	CHECK	10200

Not Released: 1,375.00
 Released: 0.00
 Total Paid: 1,375.00
 Total Transferr...: 0.00
 Unpaid Balance: 0.00
 Unrefunded B...: 0.00
 Unbilled Balan...: -1,375.00

Figure: The Delete Refund button on the Sales Orders form

Also, if a payment was made by credit card and the payment has the *Open* status, a user can void the payment by clicking the **Void Card Payment** button on the **Payments** tab of the *Sales Orders* form.

Preparation of Invoices and Credit Memos for a Mixed Order

To prepare an invoice for a mixed order, a user can click **Prepare Invoice** on the form toolbar of the *Sales Orders* (SO301000) form. Depending on the order's balance, the system will create an invoice on the *Invoices* (SO303000) form as follows:

- An invoice of the *Invoice* or *Cash Sale* type (see the following note) if the **Order Total** value is positive or zero
- An invoice of the *Credit Memo* or *Cash Return* type (see the following note) if the **Order Total** value is negative



The type of document created depends on whether the **AR Document Type** setting on the **Template** tab of the *Order Types* (SO201000) form contains *Invoice/Credit Memo* or *Cash Sale/Cash Return*.

Limitations for Mixed Orders and the Related Invoices

The following limitations apply to the processing of mixed orders and invoices prepared for these orders:

- One invoice can be created for one mixed order. If invoices are created from the [Process Orders](#) (SO501000) form through the *Prepare Invoice* action, a separate invoice will be created for each order.
- An invoice can be created only for a full quantity of items in a mixed order. A user cannot create an invoice for a partial quantity of items in the order or order line.
- A user cannot do the following on the **Details** tab of the [Invoices](#) (SO303000) form:
 - Add a mixed order to the invoice by using the **Add Order** dialog box
 - Add an order line of a mixed order by using the **Add SO Line** dialog box

Payment and Refund Limitations for Mixed Orders and Their Invoices

The processing of customer payments and refunds related to mixed orders and their invoices has limitations. On the **Payments** tab of the [Sales Orders](#) (SO301000) form and on the **Applications** tab of the [Invoices](#) (SO303000) form, a user cannot do the following:

- Add an application for an existing payment or for an existing refund.
- Remove the link to a payment application or refund application from the order or invoice.
- Change the amount of a payment application or refund application. The application amount can be changed only on the [Payments and Applications](#) (AR302000) form.

Taxes and Discounts in Mixed Orders

Taxes and discounts in sales orders of a type with the *Mixed Order* automation behavior are calculated the same way they are calculated in return orders of a type with the *RMA Order* automation behavior.

Additional Information

For more information about the predefined *MO* order type, see the *Order Type for Processing Both a Sale and a Customer Return* section in [Sales Order Types: General Information](#).

Inventory and Order Management: Support of Multiple Totes for a Pick List

In previous versions of Acumatica ERP, users could not assign multiple totes to the same pick list when they picked the items on the *Pick, Pack, and Ship* (SO302020) form. This limitation resulted in numerous workarounds if the quantity of items did not fit in a single tote.

In Acumatica ERP 2023 R1, the system can be configured to allow users to add totes to the pick list on the fly on the *Pick, Pack, and Ship* form.

Adding of Totes on the Fly

The **Add Totes to Shipments on the Fly** check box has been added to the **Warehouse Management** tab (**Fulfillment Settings** section) of the *Sales Orders Preferences* (SO101000) form (shown in the following screenshot). If an implementation manager selects this check box, pickers have the ability to assign multiple totes to a shipment or to multiple shipments in a pick list when they pick the items for the pick lists of the *Single-Shipment* and *Wave* type on the *Pick, Pack, and Ship* (SO302020) form.

Sales Orders Preferences

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GENERAL MAILING & PRINTING **WAREHOUSE MANAGEMENT**

These settings are specific to the current branch.

FULFILLMENT WORKFLOW

- ☒ Display the Pick Tab
- ☒ Display the Pack Tab
- ☐ Display the Ship Tab
- ☒ Display the Return Tab
- ☒ Display the Scan Log Tab

FULFILLMENT SETTINGS

Short Shipment Confirmation: Forbid

Order Shipment Lines by Locati... Pick Priority

- ☐ Use Default Quantity
- ☐ Use Explicit Line Confirmation
- ☐ Use Default Location
- ☐ Confirm Weight for Each Package
- ☐ Request Location for Each Item
- ☐ Confirm Tote Selection on Wave Picking
- ☒ **Add Totes to Shipments on the Fly**
- ☒ Print Packing Slips with Pick Lists

Figure: The Add Totes to Shipments on the Fly check box

If the picked goods do not fit the tote that was initially assigned to the pick list, a picker can click the new **Add Tote** button on the form toolbar of the *Pick, Pack, and Ship* form (as shown in the following screenshot). The button becomes available only if at least one item has been picked to an already-assigned tote. After the picker adds a new tote to the pick list, for each newly scanned item, the system prompts the user to scan the barcode of the tote to which they want to pick the item.

Pick, Pack, and Ship FILES CUSTOMIZATION

RESET USER SETTINGS REMOVE GET QTY CONFIRM PICK LIST NEXT LIST FINISH AND NEXT ADD TOTE CONFIRM LINE QUANTITY

Scan:

Shipment Nbr.: 000029

Current Location: L3R2S1 - Line 3, rack 2, shelf 1

The Paperless Pick mode is in use.
The APJAM08 item is selected.
Scan the barcode of the tote to which you want to add the items.

PICK SCAN LOG

PROCEED PICKING

Matched	Warehouse	Location	Inventory ID	Picked Quantity	Quantity	UOM	Quantity Confirmed	Tote ID
<input checked="" type="checkbox"/>	WHOLESALE	L3R2S1	APJAM08	0.00	10.00	PIECE	<input type="checkbox"/>	T2
<input type="checkbox"/>	WHOLESALE	L2R1S3	ORJAM32	5.00	5.00	PIECE	<input type="checkbox"/>	T2
<input type="checkbox"/>	WHOLESALE	L2R1S3	ORJAM32	3.00	3.00	PIECE	<input type="checkbox"/>	T1

Figure: The Add Tote button

Inventory and Order Management: Other Improvements

In Acumatica ERP 2023 R1, multiple improvements to functionality of the inventory and order management have been introduced, as described below.

Calculation of the Commissionable Amount in Sales Orders

Starting in Acumatica ERP 2023 R1, improvements have been made to the calculation of the commissionable amount in sales orders that are created on the [Sales Orders](#) (SO301000) form. If a commissionable item is returned by a customer, the item's commissionable amount is appropriately subtracted from the commission, so that commission is not being given for an item that the customer returned.

If a sales order line on the **Details** tab is subject to commission (that is, the **Commissionable** check box is selected) and has the *Receipt* operation type, the amount of the line decreases the **Commissionable Amount** value on the **Commissions** tab. For example, for a sales order that has lines with the *Receipt* operation only, the commissionable amount will be negative.

New Alternate Type in Cross-References for Stock and Non-Stock Items

In Acumatica ERP 2023 R1, the new *GTIN/EAN/UPC/ISBN* option has been added to the **Alternate Type** column on the **Cross-Reference** tab of the [Stock Items](#) (IN202500) and [Non-Stock Items](#) (IN202000) forms. (The following screenshot shows the option in the column on the [Stock Items](#) form.)

Stock Items

CINNAMON - Cinnamon powder, package of 1 lb

NOTES ACTIVITIES

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* Inventory ID:	CINNAMON - Cinnamon powder, pack	Product Workgroup:	
Item Status:	Active	Product Manager:	
Description:	Cinnamon powder, package of 1 lb		

GENERAL PRICE/COST WAREHOUSES VENDORS ATTRIBUTES PACKAGING **CROSS-REFERENCE** RELATED ITEMS

Alternate Type	* Vendor/Customer	* Alternate ID	UOM	Description
GTIN/EAN/UPC/ISBN		CNM1LB	LB	Cinnamon, 1 lb package
Vendor Part Number	TEACOMPANY	C15267	LB	Cinnamon
Barcode		CNMN	LB	

Figure: The GTIN/EAN/UPC/ISBN alternate type of cross-reference

The *GTIN/EAN/UPC/ISBN* alternate type behaves in the same way as the *Barcode* type does. That is, it can be used in the same processes (such as automated warehouse operations and addition of an item by barcode). The new alternate type has been introduced for better visibility of the barcodes of the GTIN, EAN, UPC, and ISBN types assigned to an item and for future integrations and enhancements related to these types.

Localization: Canadian T5018 History and Validation Report

The Canadian T5018 functionality gives users the ability to generate a T5018 XML file to be electronically submitted to CRA (Canada Revenue Agency). However, the T5018 XML files are generated in a non-human readable form. Starting in Acumatica ERP 2023 R1, users will be able to review the T5018 data they submit to CRA in a human-readable form and also view the previous years' submissions.

The following sections describe the UI changes that have been implemented in the system to support this functionality.

Changes to the Companies Form

On the [Companies](#) (CS101500) form, the **Canadian Tax Reporting** tab has been added, as shown in the following screenshot.

The screenshot shows the 'Companies' form (CS101500) with the 'PRODUCTS - Revision Two Products' header. The 'CANADIAN TAX REPORTING' tab is highlighted with a red box. The form includes fields for Company ID, Company Name, Company Type, and Status. Below the tabs, the 'T5018 SETTINGS' section contains fields for Year Type, Program Number, and Transmitter Number.

Figure: The Canadian Tax Reporting tab on the Companies form

The tab appears on the form if the *Canadian Localization* feature is enabled on the [Enable/Disable Features](#) (CS100000) form and *Canada* is selected in the **Localization** box (**Company Details** tab) on the [Companies](#) form.

The tab contains the following boxes:

- **Year Type:** The type of year for T5018 reporting—*Calendar Year* or *Fiscal Year*. By default, *Fiscal Year* is selected. If no T5018 has been prepared for the selected company, the user can change the year type. If T5018 data has already been prepared, on the user's attempt to change this value, the system displays an error message.
- **Program Number:** The recipient's program account number that will be used as *Account Number* in a T5018 submission file in the *T5018 Summary* section. This value consists of 15 alphanumeric characters.
- **Transmitter Number:** The transmitter number that will be used in a T5018 submission file in the *T619* section. This value consists of 8 alphanumeric characters.

Changes to the Create T5018 E-File Form

On the [Create T5018 E-File](#) (AP507600) form, the following UI changes, shown also in the screenshot below, have been introduced:

1. The **Create T5018 Validation Report** button (shown in Item 1 in the following screenshot) has been added to the form toolbar. By clicking this button, the user can review the T5018 data prepared on the form, which the system opens in the [T5018 Preview Report](#) (AP607600) form.

- The **Create T5018 E-File** button (Item 2) has been added to the form toolbar. By clicking this button, the user creates an electronic T5018 e-file. The system generates an XML file with information for all vendors displayed on the **Details** tab. The generated file is attached to the form and the user can review it by clicking **Files** on the form title bar.

The button is available only if a specific revision number is selected in the **Revision** box of the Selection area.

- The Selection area of the form (Item 3) has been redesigned. The following UI elements have been added to the Selection area:
 - The **T5018 Tax Year** box. By default, the box displays the year previous to the year of the current business date. If the year type selected on the [Companies](#) (CS101500) form for the company is *Calendar Year*, the previous calendar year is specified. If the year type is *Fiscal Year*, the system displays the financial year whose end date is closest to the current business date, but is earlier than it. The user can select a financial year from the company calendar of the company selected in the **Transmitter** box.
 - The **Revision** box. A revision is a set of data prepared on the current form, which will be exported as an XML file or displayed on the *T5018 Preview Report*. Every time the user saves new data, the system creates a new revision. Each new revision contains data from the previous revision and all new transactions that were added in the system after the previous revision was created.
 - The **E-File Submitted to CRA** check box. This check box specifies, if selected, that the e-file with the T5018 data of the selected revision has been submitted to CRA.
 - The **Previous Submitted Revision** box. This read-only box displays the ID of the latest revision before the currently selected one, which has the **E-File Submitted to CRA** check box selected. This value shows the revision that will be used as *Original* submission if *Amendment* is selected in the **Filing Type** box.
- The **Details** tab (Item 4) has been added to the form. This tab contains a table with information about all vendors.
- The **Summary** tab (Item 5) has been added to the form. This tab contains UI elements that were previously available in the Summary area and multiple new boxes. See below for detailed information about the **Summary** tab.

The following screenshot illustrates the UI changes on the [Create T5018 E-File](#) form.

Create T5018 E-File

NOTES FILES CUSTOMIZATION TOOLS

CREATE T5018 VALIDATION REPORT CREATE T5018 E-FILE

* Transmitter: PRODUCTS - Revision Two I From: 1/1/2022

* T5018 Tax Year: 2022 To: 12/31/2022

* Revision: 1 Previous Submitte...

☐ E-File Submitted to CRA

Filing Type: Original

Threshold Amount: 0.00

DETAILS SUMMARY

Vendor	Vendor Name	Payer	Amount	Tax Registration ID
> FOODETISUP	Etik Food Supplies	Revision Two Products	12,633.00	213456789RT1234

Figure: UI changes on the Create T5018 E-file form

The boxes that were previously available in the Selection area have been moved to the **Summary** tab. The following boxes have been added to the **Summary** tab:

- The **Transmitter Number** box (also shown in Item 1 of the following screenshot). This is a required box. The default value is copied from the **Transmitter Number** box on the **Canadian Tax Reporting** tab of the [Companies](#) (CS101500) form. The value is up to 8 alphanumeric characters. If the **Transmitter Number** setting for the company on the [Companies](#) form is empty, the current box is filled in with MM555555. The value entered here will be used for the *Transmitter Number* element in the T619 section of the T5018 file.
- Boxes in the **Company** section (Item 2). By default, the boxes in this section display the information about the main address of the company selected in the **Transmitter** box in the Summary area of the [Create T5018 E-File](#) form.
- Boxes in the **Contact** section (Item 3). By default, the boxes in this section display the information about the main contact of the company selected in the **Transmitter** box in the Summary area of the [Create T5018 E-File](#) form.

The following screenshot illustrates the **Summary** tab of the [Create T5018 E-File](#) form.

Create T5018 E-File

NOTES FILES CUSTOMIZATION TOOLS

CREATE T5018 VALIDATION REPORT CREATE T5018 E-FILE

* Transmitter:	PRODUCTS - Revision Two I	From:	1/1/2022
* T5018 Tax Year:	2022	To:	12/31/2022
* Revision:	1	Previous Submitte...	
<input type="checkbox"/> E-File Submitted to CRA			
Filing Type:	Original		
Threshold Amount:	0.00		

DETAILS SUMMARY

SETTINGS

* Language: English

* Program Number: 123456789RZ0001

* Transmitter Number: MM555555

COMPANY

* Company Name: Revision Two Products

Address Line 1: 11235 SE 6th St.

Address Line 2: Suite 140

City: Bellevue

Province: WA

Country: USA

Postal Code: 98004

CONTACT

* Name: Maxwell Baker

* Contact Area Code: 206

* Phone: 555-1212

Extension Number:

* Email: admin@revisiontwo.com

Second Email:

Figure: The Summary tab of the Create T5018 E-File form

Additionally, on the [Create T5018 E-File](#) form, under the **Tools** menu button, the **Audit History** command has been added, as shown in the following screenshot.

The screenshot shows the 'Create T5018 E-File' form. The 'TOOLS' menu is open, and the 'Audit History...' option is highlighted. The form contains the following fields:

- * Transmitter: PRODUCTS - Revision Two I
- * T5018 Tax Year: 2022
- * Revision: 2
- From: 1/1/2022
- To: 12/31/2022
- Previous Submitte...
- ☐ E-File Submitted to CRA
- Filing Type: Original
- Threshold Amount: 0.00

At the bottom, there is a table with the following data:

Vendor	Vendor Name	Payer	Amount	Tax Registration ID
> FOODETISUP	Etik Food Supplies	Revision Two Products	12,633.00	213456789RT1234

Figure: The Audit History command on the Create T5018 E-File form

The user can click this command to activate audit history for specific records on the [Create T5018 E-File](#) form.

T5018 Preview Report

If the user clicks **Create T5018 Validation Report** on the form toolbar of the [Create T5018 E-File](#) (AP507600) form, the systems runs the [T5018 Preview Report](#) (AP607600), as shown in the following screenshot.

T5018 Preview Report

T5018 Year: 2022 Payer Name: Revision Two Prod
 Start Date: 1/1/2022 Payer's Program Account Number: 123456789RZ0001
 End Date: 12/31/2022
 Revision: 1

Vendor	Vendor Name	Address	SIN Number	Program Account Number	Payments
FOODETISUP	Etik Food Supplies	9-9345 154 Street	Red Deer	213456789RT1234	12,633.00

Figure: The generated T5018 Preview Report

The report is also available from the **Payables** workspace under the **Reports** section.

The [T5018 Preview Report](#) contains all the boxes required in the *T5018 Statement of Contract Payments* form. Users can run this report to preview the T5018 information before generating the T5018 e-file and submitting this information to CRA.

Upgrade Notes

During an upgrade to Acumatica ERP 2023 R1, for all existing companies that have *Canada* selected in the **Localization** box on the [Companies](#) (CS101500) form, the *Fiscal Year* option will be inserted in the **Year Type** box on the **Canadian Tax Reporting** tab of the [Companies](#) form.

Additional Information

For details on T5018 configuration and electronic filing of the T5018 form, see [Configuring T5018 Reporting](#) and [Filing the T5018 Form Electronically](#).

For a detailed instruction on how to file a T5018 form, see [To Generate the T5018 Form](#).

Localization: Localized Versions of Reports

Starting in Acumatica ERP 2023 R1, localized versions of reports can be launched if the *Canadian Localization* or *UK Localization* feature is enabled on the [Enable/Disable Features](#) (CS100000) form.

For all the reports that have localized versions, the **Localization** box has been added to the Template area of the report form, as shown in the following screenshot.

The screenshot shows the 'Service Order' report form. At the top right is a 'TOOLS' dropdown. Below it are buttons: 'RUN REPORT', 'SAVE TEMPLATE', 'REMOVE TEMPLATE', 'SCHEDULE TEMPLATE', and 'EDIT REPORT'. The 'Template' section contains a dropdown menu, checkboxes for 'Default' and 'Shared', and a 'Localization' dropdown menu which is highlighted with a red box and shows 'Canada' selected. Below this are tabs: 'REPORT PARAMETERS', 'ADDITIONAL SORT AND FILTERS', 'PRINT AND EMAIL SETTINGS', and 'REPORT VERSIONS'. The 'REPORT PARAMETERS' tab is active, showing fields for '* Service Order Type:' (INST - Installation) and '* Service Order Number:' (006291).

Figure: The Localization box on the report form

The **Localization** box is displayed if the following conditions are met:

- The *Canadian Localization* or *UK Localization* feature is enabled on the [Enable/Disable Features](#) (CS100000) form
- A localized version of the report exists in the system

If the company in which the user is signed in has a localization selected on the [Companies](#) (CS101500) form, that is an option other than *None* is selected in the **Localization** box on the **Company Details** tab (**Configuration Settings** section), this setting will be selected by default in the **Localization** box on a report form. Otherwise, the default setting in the **Localization** box on the report form will be *None*.



To determine if a localized version of a report exists, the system checks the `Site\ReportsDefault` directory, the database, the `ReportsCustomized` folder, and the `ReportsDefault` folder.

For example, the *Canadian Localization* feature is enabled and there is a Canadian version of the FS641000.rpx report available in the `Site\ReportsDefault` folder—FS641000.CA.rpx. Therefore, if a user runs the [Service Order](#) (FS641000) report, the **Localization** box in the Template area of this report form will have the *Canada* and *None* options available for selection.

Manufacturing: Deallocation of Unused Materials for Production Orders

In previous versions of Acumatica ERP Manufacturing Edition, when a user manually set the status of a production order to *Completed*, the materials would still be allocated for the production order—that is, item plans for the material allocation would exist on the [Inventory Allocation Details](#) (IN402000) form. This situation could happen if the required quantity of materials for a production order has been overestimated. The only way to remove the material allocation was to close the production order, which was not applicable in some cases. Open item plans for materials from completed production orders would affect material requirements planning in the way that the system would continue to regard these materials as being required for the production orders.

Version 2023 R1 introduces the ability to manually deallocate materials for production orders that have the *Completed* status. Also, if a production manager realizes that they need to issue more materials after the production order has been completed, the manager now can reopen the order and allocate the needed materials.

Deallocation of Materials

When a production manager needs to deallocate materials for a production order that has the *Completed* status, the manager opens the order on the [Production Order Details](#) (AM209000) or [Production Order Maintenance](#) (AM201500) form. On the More menu, the manager clicks the new **Set Materials Status to Completed** command under **Materials** (see the following screenshot). As a result, the system does the following:

- Closes any opened item plans for the materials of the production order on the [Inventory Allocation Details](#) (IN402000) form
- Changes the status of the materials to *Completed*

The screenshot displays the 'Production Order Details' form for production order RO AM000038. The 'More' menu is open, showing various actions. Under the 'Materials' section, the command 'Set Materials Status to Completed' is highlighted with a red box. The background shows the 'MATERIALS' tab with a table of allocated materials.

Inventory ID	Description	Qty Required	*UOM	Unit Cost	Material Status	Backflush	Warehouse Override	*Warehouse	Location	Scrap Factor
MGPCB	Printed Circuit Board	1.00	EA	1.00	Completed	<input type="checkbox"/>	<input type="checkbox"/>	WHOLESALE		0.00000
MGFILTER	Internal Purifying Filter	1.00	EA	30.00	In Process	<input type="checkbox"/>	<input type="checkbox"/>	WHOLESALE		0.00000
MGH20RESV	Water Reservoir	1.00	EA	8.00	In Process	<input type="checkbox"/>	<input type="checkbox"/>	WHOLESALE		0.00000
MGHOUSING	Housing	1.00	EA	10.00	In Process	<input type="checkbox"/>	<input type="checkbox"/>	WHOLESALE		0.00000

On Hand 1,027.00 EA, Available 871.00 EA, Available for Shipping 871.00 EA, Allocated 0.00 EA

Figure: The new command on the Production Order Details form

Allocation of Materials

If a production manager needs to issue a greater quantity of materials that were not issued in full but were assigned the *Completed* status and the production order containing the materials has already been completed, the manager opens the production order on the [Production Order Details](#) (AM209000) or [Production Order Maintenance](#) (AM201500) form. Then on the More menu, the manager clicks the new **Set Materials Status to Open** command under **Materials** (see the following screenshot). As a result, the system does the following:

- Creates item plans for the remaining material quantities on the [Inventory Allocation Details](#) (IN402000) form.
- Changes the material status from *Completed* to one of the following statuses:
 - If the remaining quantity of the material is zero, the material status remains *Completed*.
 - If the remaining quantity of the material is not zero and the actual quantity is not zero, then the status is changed to *In Process*.
 - If the remaining quantity for the material is not zero and the actual quantity is zero, then the status is changed to *Released*.



The remaining quantity of each material is displayed in the **Qty Remaining** column and the actual quantity is displayed in the **Qty Actual** column of the **Materials** table on the [Production Order Details](#) form.

The screenshot shows the 'Production Order Details' form for RO AM000038. The 'More' menu is open, displaying various options. Under the 'Materials' section, the 'Set Materials Status to Open' command is highlighted with a red box. The background shows the 'MATERIALS' table with columns for Inventory ID, Description, Qty Required, UOM, Unit Cost, Material Status, Backflush, Warehouse Override, Warehouse, Location, and Scrap Factor. The table lists four materials: MGRESVINLT, MGPCB, MGFILTER, and MGH20RESV, all with a status of 'Completed'.

Inventory ID	Description	Qty Required	UOM	Unit Cost	Material Status	Backflush	Warehouse Override	Warehouse	Location	Scrap Factor
MGRESVINLT	Reservoir Inlet	1.00	EA	30.00	Completed	<input type="checkbox"/>	<input type="checkbox"/>	WHOLESALE		0.00000
MGPCB	Printed Circuit Board	1.00	EA	1.00	Completed	<input type="checkbox"/>	<input type="checkbox"/>	WHOLESALE		0.00000
MGFILTER	Internal Purifying Filter	1.00	EA	30.00	Completed	<input type="checkbox"/>	<input type="checkbox"/>	WHOLESALE		0.00000
MGH20RESV	Water Reservoir	1.00	EA	8.00	Completed	<input type="checkbox"/>	<input type="checkbox"/>	WHOLESALE		0.00000

Figure: The new command on the Production Order Details form

Status for Material Allocation in Production Orders

To support the functionality of manual material allocation and deallocation, the status of materials for a particular production operation has been introduced. The status indicates whether the materials have been issued for the operation and whether the materials have been allocated for the production order—that is, item plans for the materials exist on the [Inventory Allocation Details](#) (IN402000) form.

A production manager can view the material status for each operation in the **Material Status** column of the **Materials** tab on the *Production Order Details* (AM209000) form, shown in the following screenshot.

Production Order Details
RO AM000037 - Production of 3 widgets

NOTES ACTIVITIES FILES NOTIFICATIONS CUSTOMIZATION TOOLS

Order Type: RO - Regular Orders Inventory ID: MGWIDGET - Assembled widget
Production Nbr.: AM000037 - Production of 3 v Warehouse: WHOLESALE - Wholesale Warehouse
Order Date: 1/12/2023 Status: Released
Branch: PRODWHOLE - Products Wholesale

CREATE PURCHASE ORDER CREATE VENDOR SHIPMENT

Operation ID	Work Center	Operation Description	Setup Time	Run Units	Run Time	Machine Units	Machine Time	Queue Time	Finish Time	Move Time
0010	WC10	Assembly	00:00	1.00	00:30	0.00	01:00	00:00	00:00	00:00
0020	WC100	Inspection	00:00	1.00	00:15	0.00	01:00	00:00	00:00	00:00

MATERIALS STEPS TOOLS OVERHEAD TOTALS OUTSIDE PROCESS

RESET LINES LINE DETAILS ALLOC. DETAILS PO LINK

Inventory ID	Description	Qty Required	UOM	Unit Cost	Material Status	Backflush	Warehouse Override	Warehouse	Location
WIDGET01	Widget 01 - High volume, low...	10.00	EA	0.86	Released	<input type="checkbox"/>	<input type="checkbox"/>	WHOLESALE	
WIDGET03	Widget 03 - Standard cost item	2.00	EA	35.00	Released	<input type="checkbox"/>	<input type="checkbox"/>	WHOLESALE	

Figure: The Material Status column on the Production Order Details form

The material statuses are described in the following table.

Material Status	Description
<i>Planned</i>	The material has not been issued yet, and the production order that contains the material has the <i>Planned</i> status. The item plan for the material has been created.
<i>Released</i>	The material has not been issued yet, and the production order that contains the material has the <i>Released</i> status. The item plan for the material has been created.
<i>In Process</i>	The material has been partially issued. The item plan for the remaining material quantity has been created.
<i>Completed</i>	The material has been issued in full. No item plans exist for the material.
<i>Closed</i>	The production order that contains the material has the <i>Closed</i> status. No item plans exist for the material.
<i>Canceled</i>	The production order that contains the material has the <i>Canceled</i> status. No item plans exist for the material.

UI Enhancements

The More menu on the [Production Order Details](#) (AM209000) form and [Production Order Maintenance](#) (AM201500) form has been redesigned as follows to group commands in a more convenient way (see the following screenshots):

- The **Replenishment** category has been added, with the **Create Purchase Orders** and **Create Production Orders** commands within it.
- The **Materials** category has been added, with the **Critical Material**, **Late Assignment**, **Set Materials Status to Open**, and **Set Materials Status to Completed** commands within it.

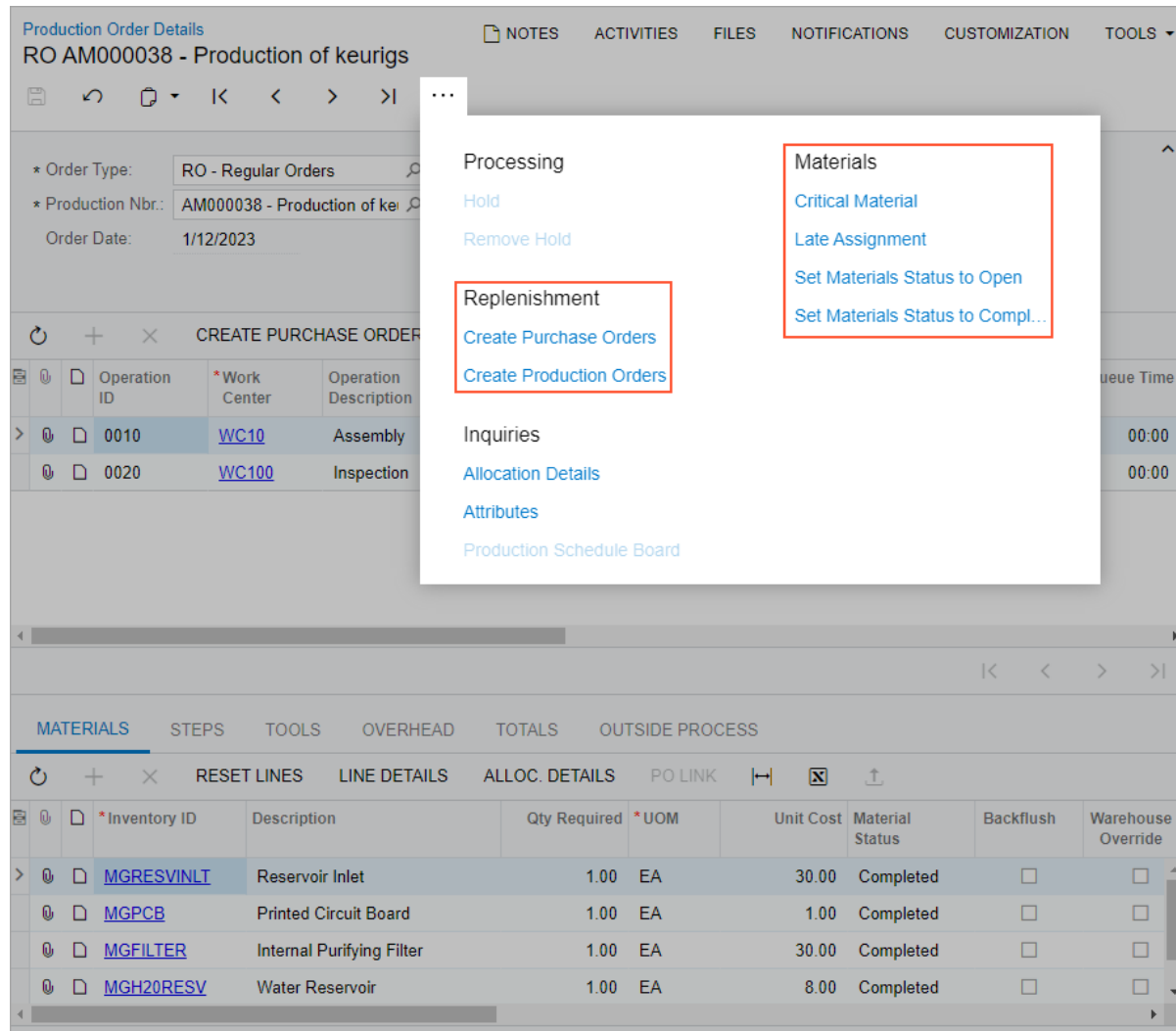


Figure: The More menu on the Production Order Details form

Production Order Maintenance
RO AM000038 - Production of keurigs

NOTES ACTIVITIES FILES NOTIFICATIONS CUSTOMIZATION TOOLS

PRODUCTION DETAIL

Order Type: RO - Regular Orders Order Date: 1/12/2023
 Production Nbr.: AM000038 - Production of keurigs Status: Completed
 Inventory ID: AMKEURIG45 - Keurig Model 450 Product Workgroup:
 Warehouse: WHOLESALE - Wholesale Warehouse Product Manager:
 Location: R1S1 - Row 1 Shelf 1
 Description: Production of keurigs

GENERAL REFERENCES EVENTS ATTRIBUTES TOTALS LINE DETAILS

Qty. to Produce: 3.00 Schedule Status: Unscheduled
 UOM: EA Scheduling Method: Start On
 Qty. Complete: 2.00 Constraint: 1/12/2023
 Qty. Scrapped: 0.00 Start Date: 1/12/2023
 Qty. Remaining: 1.00 End Date: 1/12/2023

☐ Use Fixed Mfg Lead Times for Order Date
☐ Use Order Start Date for MRP
☐ Exclude from MRP

Dispatch Priority: 5
 Costing Method: Actual
☐ Scrap Override

Scrap Warehouse: RETAIL - Retail Warehouse
 Scrap Location: RETURNS - Returns area
☒ Allow Preassigning Lot/Serial Numbers
 Require Parent Lot/Serial... Never

Processing
 Hold
 Remove Hold
 Plan Order
 Release Order
 Complete Order
 Cancel Order
 Close Order

Transactions
 Release Materials
 Create Labor Transaction
 Create Move Transaction
 Disassemble

Replenishment
 Create Purchase Orders
 Create Production Orders

Inquiries
 Allocation Details
 Production Transactions
 Attributes
 View Schedule
 Production Schedule Board

Reports
 Production Ticket

Materials
 Critical Material
 Late Assignment
 Set Materials Status to Open
 Set Materials Status to Compl...

Scheduling
 Schedule
 Firm
 Undo Firm

Other
 ★ Production Detail
 Update Planned Costs
 Generate Orders for Subasse...

Figure: The More menu of the Production Order Maintenance form

Additional Information

For information about allocation of items to be produced and materials, see [Production Processing: Item Availability and Allocation](#).

Manufacturing: Enhanced Review of MRP History

In previous versions of Acumatica ERP Manufacturing Edition, a planning manager could only view the audit history for the most recent run of material requirements planning (MRP) by using the [Regenerate MRP](#) (AM505000) form.

In Version 2023 R1, two new inquiry forms, [MRP History](#) (AM000016) and [MRP Audit History](#) (AM000017), have been implemented for the planning manager to view the history and details of previous MRP runs. These inquiry forms help the planning manager analyze the performance of MRP regeneration and identify if the process duration increased due to the number of records processed or if other factors caused perceived performance degradation, such as errors or setup issues.

New Inquiry Forms for MRP History Review

On the *MRP History* form, shown in the following screenshot, the planning manager can compare the numbers of records that the system processed during multiple previous MRP runs, including all records, generated exception messages, inventory items, and created planning orders. This comparison may help the planning manager to discover if the increase in the number of records caused the increase in the time of MRP generation.

Start Date	End Date	Start Time	End Time	Duration	Has Errors	Created By	MRP Detail Count	MRP First Pass Detail Count	MRP Detail Plan Count	MRP Exceptions Count	MRP Inventory Count	MRP Plan Count
1/17/2023	1/17/2023	12:08 AM	12:09 AM	0 h 01 m	<input type="checkbox"/>	admin	42	365	329	48	184	147
1/17/2023	1/17/2023	12:05 AM	12:05 AM	0 h 01 m	<input type="checkbox"/>	admin	42	362	326	45	184	147
1/17/2023	1/17/2023	12:02 AM	12:02 AM	0 h 01 m	<input type="checkbox"/>	admin	42	362	326	45	184	147

Figure: The MRP History form

On the *MRP Audit History* form, shown in the following screenshot, the planning manager can view details for all MRP runs. The manager can specify a date range to view only messages created within this range.

MRP Audit History

CUSTOMIZATION

TOOLS

Start Date:

1/2/2023 12

End Date:

1/18/2023 1

Drag column header here to configure filter

	Created At	Created At (Time)	Message Type	Message	Has Errors	Created By
>	1/17/2023	12:08 AM	Started	MRP Engine Starting	<input type="checkbox"/>	admin
	1/17/2023	12:08 AM	Information	No changes in low levels have been found. The max level is 3.	<input type="checkbox"/>	admin
	1/17/2023	12:08 AM	Information	Processing First Pass	<input type="checkbox"/>	admin
	1/17/2023	12:09 AM	Information	First Pass Completed	<input type="checkbox"/>	admin
	1/17/2023	12:09 AM	Information	Processing Items at Level 0	<input type="checkbox"/>	admin
	1/17/2023	12:09 AM	Information	Level 0: Adjustments Complete	<input type="checkbox"/>	admin
	1/17/2023	12:09 AM	Information	Level 0: Blowdown complete. 37 records have been processed.	<input type="checkbox"/>	admin
	1/17/2023	12:09 AM	Information	Processing Items at Level 1	<input type="checkbox"/>	admin
	1/17/2023	12:09 AM	Information	Level 1: Adjustments Complete	<input type="checkbox"/>	admin
	1/17/2023	12:09 AM	Information	Level 1: Blowdown complete. 5 records have been processed.	<input type="checkbox"/>	admin
	1/17/2023	12:09 AM	Information	Processing Items at Level 2	<input type="checkbox"/>	admin
	1/17/2023	12:09 AM	Information	Level 2: Adjustments Complete	<input type="checkbox"/>	admin
	1/17/2023	12:09 AM	Information	Processing Items at Level 3	<input type="checkbox"/>	admin
	1/17/2023	12:09 AM	Information	Level 3: Adjustments Complete	<input type="checkbox"/>	admin

1-14 of 57 records

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Figure: The MRP Audit History form

If the manager wants to view only the messages of a particular MRP run, the manager clicks the link in the **Start Date** column of the needed row on the *MRP History* form. The system opens the *MRP Audit History* form with the audit history displayed on a separate tab.

The planning manager can also open the *MRP History* form from the *Regenerate MRP* (AM505000) form by clicking the new **History** button on the form toolbar (see in the following screenshot).

Regenerate MRP

CUSTOMIZATION TOOLS ▾

PROCESS

↺ ▾

HISTORY

Last Completed At:

1/17/2023 12:05 AM

Last Completed By:

admin

↺

↻

⌂

Created At	Message
> 1/17/2023 12:08 AM	MRP Engine Starting
1/17/2023 12:08 AM	No changes in low levels have been found. The max level is 3.
1/17/2023 12:08 AM	Processing First Pass
1/17/2023 12:09 AM	First Pass Completed
1/17/2023 12:09 AM	Processing Items at Level 0
1/17/2023 12:09 AM	Level 0: Adjustments Complete
1/17/2023 12:09 AM	Level 0: Blowdown complete. 37 records have been processed.
1/17/2023 12:09 AM	Processing Items at Level 1
1/17/2023 12:09 AM	Level 1: Adjustments Complete
1/17/2023 12:09 AM	Level 1: Blowdown complete. 5 records have been processed.
1/17/2023 12:09 AM	Processing Items at Level 2
1/17/2023 12:09 AM	Level 2: Adjustments Complete
1/17/2023 12:09 AM	Processing Items at Level 3
1/17/2023 12:09 AM	Level 3: Adjustments Complete
1/17/2023 12:09 AM	Checking for Exceptions
1/17/2023 12:09 AM	Checking for exception complete
1/17/2023 12:09 AM	Creating the MRP plan
1/17/2023 12:09 AM	Cleanup
1/17/2023 12:09 AM	Completed [00:00:02.921]

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Figure: The new History button on the Regenerate MRP form

Additional Information

For information about material requirements planning, see [Material Requirements Planning: General Information](#).

Manufacturing: New Workflow Support on the Production Order Maintenance and Production Order Details Forms

In Acumatica ERP Manufacturing Edition 2023 R1, the processing of production orders has been redesigned to use the improved workflow engine, which replaces the legacy workflow engine. The UI on the [Production Order Maintenance](#) (AM201500) and [Production Order Details](#) (AM209000) forms has been enhanced to support the functionality of the current workflow engine.



Because the replacement of the workflow engine entails changes to data access classes (DACs) and business logic, it may affect custom generic inquiries, customization projects, import and export scenarios, and API integrations. For the complete list of changes, see [Release Notes for Developers](#) for Version 2021 R1.

Changes in Production Order Workflow

On the [Production Order Maintenance](#) (AM201500) and [Production Order Details](#) (AM209000) forms, the **Hold** check box has been removed from the Summary area. Its functionality has been replaced by the *On Hold* status and the **Hold** and **Remove Hold** commands, which are displayed on the More menu of each form under the **Processing** category (see the following screenshots).

Production Order Maintenance

RO AM000032 - Build Keurig Model 450

NOTES ACTIVITIES FILES NOTIFICATIONS CUSTOMIZATION TOOLS

REMOVE HOLD

* Order Type: RO - Regular Orders

* Production Nbr.: AM000032 - Build Keurig Model 450

* Inventory ID: AMKEURIG45 - Keurig Model 450

* Warehouse: WHOLESALE - Wholesale Warehouse

* Location: R1S1 - Row 1 Shelf 1

Description: Build Keurig Model 450

GENERAL REFERENCES EVENTS ATTRIBUTES

Qty. to Produce: 50.00

* UOM: EA

Qty. Complete: 0.00

Qty. Scrapped: 0.00

Qty. Remaining: 50.00

Schedule Status:

Scheduling Method:

Constraint:

Start Date:

End Date:

Dispatch Priority:

Costing Method:

Scrap Warehouse:

Scrap Location:

RETURN - Returns area

☒ Allow Preassigning Lot/Serial Numbers

Require Parent Lot/Seri... Never

Processing

Hold

Remove Hold

Plan Order

Release Order

Complete Order

Cancel Order

Close Order

Transaction

Release Materials

Create Labor Transaction

Create Move Transaction

Late Assignment

Disassemble

Replenishment

Create Purchase Orders

Create Production Orders

Other

Production Detail

Critical Material

Update Planned Costs

Generate Orders for Subasse...

Inquiries

Allocation Details

Production Transactions

Attributes

View Schedule

Production Schedule Board

Reports

Production Ticket

Scheduling

Schedule

Firm

Undo Firm

Figure: The More menu of the Production Order Maintenance form

The screenshot displays the 'Production Order Details' form for 'RO AM000003 - Assemble Printed Circuit Board'. The form includes a toolbar with a 'HOLD' button and a 'More' menu (three dots). The 'More' menu is open, showing a list of actions. The 'Hold' option is highlighted with a green dot, and the 'Remove Hold' option is highlighted with a red box. Other options in the menu include 'Processing', 'Other', 'Critical Material', 'Inquiries', 'Allocation Details', 'Attributes', 'Production Schedule Board', 'Transaction', 'Late Assignment', 'Replenishment', 'Create Purchase Orders', and 'Create Production Orders'.

Inventory ID	Description	Qty Required	*UOM	Unit Cost	Backflush	Warehouse Override	*Warehouse	Location	Scrap Factor
MGCIRBOARD	Circuit Board	1.00	EA	50.00	<input type="checkbox"/>	<input type="checkbox"/>	WHOLESALE		0.000000
MGRESISTOR	Resistor	4.00	EA	4.00	<input type="checkbox"/>	<input type="checkbox"/>	WHOLESALE		0.000000

On Hand 190.00 EA, Available 140.00 EA, Available for Shipping 140.00 EA, Allocated 15.00 EA

Figure: The More menu of the Production Order Details form

The **Hold** command is available on either of the forms when a production order with the *Planned*, *Released*, or *In Process* status is opened. The **Remove Hold** command is available only for a production order with the new *On Hold* status.

To make changes to a production order, a production manager does the following on the *Production Order Maintenance* or *Production Order Details* form (depending on the changes):

1. Opens the production order.
2. Clicks **Hold** on the More menu. The system changes the order's status to *On Hold*, which means that production transactions cannot be created for this order.
3. Makes the needed changes.
4. Clicks **Remove Hold**. The system changes the order's status to the one that the order had before it was put on hold.

Other UI Enhancements

On the *Production Order Details* (AM209000) form, the **Hold** button (which is equivalent to the **Hold** command) is displayed directly on the form toolbar for a production order that has any of the following statuses: *Planned*, *Released*, or *In Process*. For a production order with the *On Hold* status, the **Remove Hold** button (which is equivalent to the **Remove Hold** command) is displayed on the form toolbar.

On the *Production Order Maintenance* (AM201500) form, buttons representing the commands that are most relevant to the current status of the production order opened on the form are displayed directly on the form toolbar. See the following screenshot, which shows the **Remove Hold** button for a production order with the *On Hold* status..

Production Order Maintenance

RO AM000032 - Build Keurig Model 450

NOTES ACTIVITIES FILES NOTIFICATIONS CUSTOMIZATION TOOLS

REMOVE HOLD

* Order Type: RO - Regular Orders * Order Date: 2/4/2022

* Production Nbr.: AM000032 - Build Keurig Model 450 Status: On Hold

* Inventory ID: AMKEURIG45 - Keurig Model 450

* Warehouse: WHOLESALE - Wholesale Warehouse

* Location: R1S1 - Row 1 Shelf 1

Description: Build Keurig Model 450

Product Workgroup:

Product Manager:

GENERAL REFERENCES EVENTS ATTRIBUTES TOTALS LINE DETAILS

Qty. to Produce: 50.00 Schedule Status: Scheduled

* UOM: EA Scheduling Method: Start On

Qty. Complete: 0.00 Constraint: 3/22/2022

Qty. Scrapped: 0.00 Start Date: 3/22/2022

Qty. Remaining: 50.00 End Date: 3/23/2022

☐ Use Fixed Mfg Lead Times for Order Dates

☐ Use Order Start Date for MRP

☐ Exclude from MRP

Dispatch Priority: 5

Costing Method: Actual

☐ Scrap Override

Scrap Warehouse: RETAIL - Retail Warehouse

Scrap Location: RETURNS - Returns area

☒ Allow Preassigning Lot/Serial Numbers

Require Parent Lot/Seri... Never

Figure: The Remove Hold button on the toolbar of the Production Order Maintenance form

The following table shows the commands that are also displayed as buttons on the form toolbar of the *Production Order Maintenance* form for each production order status.



The information in the following table describes the out-of-the-box installation of the system. If the workflow has been customized, different buttons may appear based on the status of the production order.

Status	Button or Buttons
<i>On Hold</i>	Remove Hold
<i>Planned</i>	<ul style="list-style-type: none"> Hold Release Order
<i>Released</i>	<ul style="list-style-type: none"> Hold Create Move Transaction

Status	Button or Buttons
<i>In Process</i>	<ul style="list-style-type: none"> • Hold • Create Move Transaction
<i>Completed</i>	No buttons equivalent to commands on the More menu
<i>Closed</i>	No buttons equivalent to commands on the More menu

Automation Changes

If the organization uses automation steps, import scenarios, or export scenarios for the [Production Order Maintenance](#) (AM201500) or [Production Order Details](#) (AM209000) form (or both forms), customizers will need to redesign the automation of the processes related to the applicable forms by using the new workflow engine.

Existing workflows can be customized in the Customization Project Editor (see [Workflow UI Guide](#)) or by extending graphs and workflows in the `PX.Objects.AM` namespace (see [Workflow API Guide](#)). Also, actions of the new workflows can be used through the contract-based API.

Manufacturing: Side Panel Support for Specific Forms

In Acumatica ERP Manufacturing Edition 2023 R1, a side panel has been added to multiple forms. A side panel is a navigation option where users can drill down to relevant details about any record they select on a form. A side panel may have only one tab with a form related to the selected record, or it may have multiple tabs. If the side panel has multiple tabs, a user views a tab by clicking its icon.

Forms with Side Panels

The following screenshot shows the side panel for the [Production Order Maintenance](#) (AM201500) form. Notice that for the selected production order, the side panel has icons. The user can click any icon to view the corresponding tab.

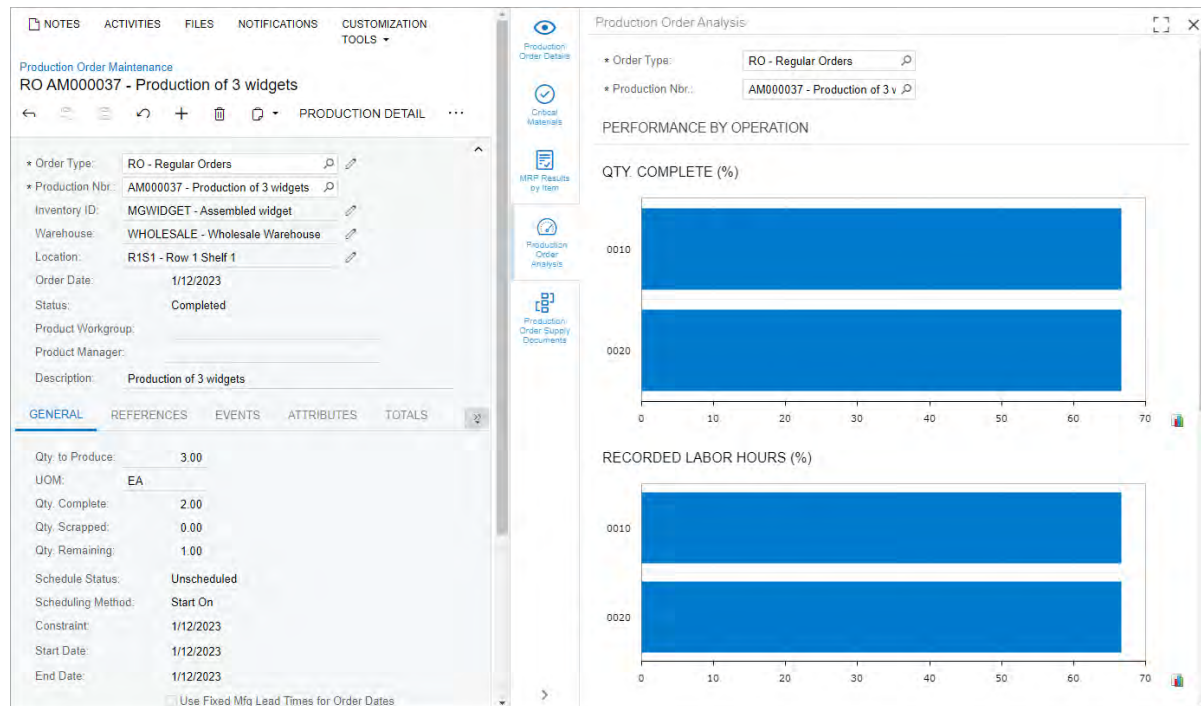


Figure: The side panel on the [Production Order Maintenance](#) form

The following table notes each form to which a side panel has been added, along with the tab or tabs on the side panel for this form. The tabs whose icons are displayed on the side panel may vary depending on the entity that is selected on the form; the **Description** column contains information about each tab.

Table: Forms with Side Panels

Form	Tab or Tabs of the Side Panel	Description
Production Order Details (AM209000)	Production Order Maintenance (AM201500)	Displays the form for the current production order.

Form	Tab or Tabs of the Side Panel	Description
	<i>Production Order Supply Documents (AM0026SP)</i>	<p>Displays the inquiry form that shows production orders for sub-assemblies and purchase orders that are linked to the current production order.</p> <p>This inquiry form is displayed only on the side panel and cannot be opened by using a search or workspaces.</p>
	<i>Vendor Shipments by Production Order (AM3100SP)</i>	<p>Displays the inquiry form that shows vendor shipments with lines related to the current production order.</p> <p>This inquiry form is displayed only on the side panel and cannot be opened by using a search or workspaces.</p>
	<i>Where Used in Production Orders (AM0027SP)</i>	<p>Displays the inquiry form that lists all production orders that use the same materials as the current production order uses.</p> <p>This inquiry form is displayed only on the side panel and cannot be opened by using a search or workspaces.</p>
<i>Production Order Maintenance</i>	<i>Production Order Details</i>	Displays the form for the selected production order.
	<i>Critical Materials (AM401000)</i>	Displays the form and populates the list of materials with the materials of the current production order that are not available in stock.
	MRP Results by Item	<p>Displays the <i>Detail Inquiry (AM404000)</i> form with the inventory item and warehouse copied from the current production order.</p> <p>This tab is displayed only when the <i>Material Requirements Planning</i> feature is enabled on the <i>Enable/Disable Features (CS100000)</i> form</p>

Form	Tab or Tabs of the Side Panel	Description
	Project Tasks (PM302000)	<p>Displays the form with the project and project task copied from the current production order.</p> <p>This tab is displayed only when the <i>Projects</i> feature is enabled on the Enable/Disable Features form and the project and project task are specified on the References tab of the Production Order Maintenance form.</p>
	<i>Production Order Supply Documents</i> (AM0026SP)	<p>Displays the inquiry form that shows production orders for sub-assemblies and purchase orders that are linked to the current production order.</p> <p>This inquiry form is displayed only on the side panel and cannot be opened by using a search or workspaces.</p>
	<i>Production Order Analysis</i> (AM0042DB)	<p>Displays the dashboard with the information related to operations of the current production order.</p> <p>This dashboard is displayed only on the side panel and cannot be opened by using a search or workspaces.</p>
Estimate Operation (AM304000)	Estimate (AM303000)	Displays the form for the estimate ID copied from the current estimate operation.
Bill of Material (AM208000)	BOM Attributes (AM208500)	Displays the form for the current BOM ID.
	<i>Show Engineering Change Request</i> (AM2100PL)	<p>Displays the list of engineering change requests (ECRs) for which both of the following are true:</p> <ul style="list-style-type: none"> • The ECR is linked to the current combination of the BOM ID and the revision. • The ECR has the <i>On Hold</i>, <i>Pending Approval</i>, or <i>Approved</i> status. <p>This tab is displayed only when the <i>Engineering Change Control</i> feature is enabled on the Enable/Disable Features form.</p>

Form	Tab or Tabs of the Side Panel	Description
	<i>Show Engineering Change Order (AM2150PL)</i>	<p>Displays the list of engineering change orders (ECOs) for which both of the following are true:</p> <ul style="list-style-type: none"> • The ECO is linked to the current combination of the BOM ID and the revision. • The ECO has the <i>On Hold</i>, <i>Pending Approval</i>, or <i>Approved</i> status. <p>This tab is displayed only when the <i>Engineering Change Control</i> feature is enabled on the Enable/Disable Features form.</p>
MRP Display (AM400000)	Detail Inquiry	Displays the form for the stock item copied from the highlighted row.
MRP Exceptions (AM403000)	Detail Inquiry	Displays the form for the stock item copied from the highlighted row.

Additional Information

For details about side panels, see [Side Panels on Forms](#).

Manufacturing: Other Enhancements

In Acumatica ERP Manufacturing Edition 2023 R1, multiple improvements to the UI and manufacturing management processes have been introduced, as described below.

Enhancements to the Where Used in BOM Form

On the [Where Used in BOM](#) (AM402000) form, the following enhancements have been introduced:

- In the Selection area, the following changes have been made:
 - The **Multi-Level** check box has been renamed to **Show Multilevel Results** for clarity (see Item 1 in the screenshot below). A production employee selects this check box if they want to display not only the immediate bill of material (BOM) that contains the component specified in the **Inventory ID** box of the Selection area but also bills of material of higher levels.
 - The **Warehouse** box has been renamed to **BOM Warehouse** for clarity (Item 2). If the production employee selects a warehouse in this box, the system displays in the table only parent BOMs assigned to this warehouse on the [Bill of Material](#) (AM208000) form.
 - The **Show Active BOMs Only** check box has been added (Item 3). A production employee can select this check box to view only active revisions of parent BOMs in the table.
- The following columns, which display information about the parent BOMs, have been added to the table or renamed (Item 4):
 - Parent Item Class:** The item class to which the item specified in the parent BOM belongs. In the previous versions of Acumatica ERP Manufacturing Edition, this column had the **Item Class** name. It was renamed because it duplicated the name of the column that displays the item class to which the component specified in the **Inventory ID** column belongs.
 - BOM Warehouse:** The warehouse specified in the parent BOM.
 - Revision Status:** The status of the parent BOM revision.
 - Revision Start Date:** The start date of the parent BOM revision.
 - Revision End Date:** The end date of the parent BOM revision.

Where Used in BOM

Inventory ID: ☒ **Show Multilevel Results** ☒ **Show Active BOMs Only**

Item Class:

REFRESH | ADJUST | EXPORT

Inventory ID	Level	Parent Inventory ID	Parent Item Class	BOM Warehouse	Revision Status	Revision Start Date	Revision End Date	Warehouse
MGCIRBOARD	1	MGPCB	MFGSUBASSY -	WHOLESALE	Active	8/11/2020		
MGCIRBOARD	2	AMKEURIG45	MFGFG -	WHOLESALE	Active	8/11/2020		WHOLESALE

Figure: The improvements to the Where Used in BOM form

Creation of Labor Transactions on the Production Order Maintenance Form

In previous versions of Acumatica ERP Manufacturing Edition, when a production employee wanted to create a labor transaction for a production order, the employee had to open the [Labor](#) (AM301000) form and specify the production order number and the operation number manually. Now on the [Production Order Maintenance](#) (AM201500) form, the employee can create a labor transaction by using the new **Create Labor Transaction** command on the More menu, shown in the following screenshot. When the employee clicks this command, the system creates a labor transaction for the first incomplete operation of the production order selected on the form and opens the transaction on the [Labor](#) form.

Additionally, in the More menu of the [Production Order Maintenance](#) form, the new **Transaction** category has been added (also shown in the screenshot). This category groups the commands that initiate the creation of production transactions or start other processes related to production transactions.

The screenshot displays the 'Production Order Maintenance' form for 'RO AM000039 - Production of 3 widgets'. The form includes fields for Order Type, Production Nbr., Inventory ID, Warehouse, Location, and Description. It also shows a 'More' menu with various options. The 'Create Labor Transaction' option is highlighted in the 'Transactions' category.

Order Type	Production Nbr.	Inventory ID	Warehouse	Location	Description
RO - Regular Orders	AM000039 - Production of 3 widgets	MGWIDGET - Assembled widget	WHOLESALE - Wholesale Warehouse	R1S1 - Row 1 Shelf 1	Production of 3 widgets

Order Date	Status	Product Workgroup	Product Manager
1/17/2023	Released		

Qty. to Produce	UOM	Qty. Complete	Qty. Scrapped	Qty. Remaining	Schedule Status	Scheduling Method	Constraint	Start Date	End Date
3.00	EA	0.00	0.00	3.00	Unscheduled	Start On	1/17/2023	1/17/2023	1/17/2023

Dispatch Priority	Costing Method	Scrap Warehouse	Scrap Location	Require Parent Lot/Serial Numbers
5	Actual	RETAIL - Retail Warehouse	RETURNS - Returns area	Never

More Menu Options:

- Processing
 - Hold
 - Remove Hold
 - Plan Order
 - Release Order
 - Complete Order
 - Cancel Order
 - Close Order
- Transactions
 - Release Materials
 - Create Labor Transaction
 - Create Move Transaction
 - Disassemble
 - Replenishment
 - Create Purchase Orders
 - Create Production Orders
 - Other
 - Production Detail
 - Update Planned Costs
 - Generate Orders for Subasse...
- Inquiries
 - Allocation Details
 - Production Transactions
 - Attributes
 - View Schedule
 - Production Schedule Board
- Reports
 - Production Ticket
- Materials
 - Critical Material
 - Late Assignment
 - Set Materials Status to Open
 - Set Materials Status to Compl...
- Scheduling
 - Schedule
 - Firm
 - Undo Firm

Figure: The More menu of the Production Order Maintenance form

Open Production Orders on the Production Order Maintenance List of Records

For user convenience, on the *Production Order Maintenance* (AM2015PL) list of records, the **Open** tab has been added (shown in the following screenshot). This tab displays production orders that have the *Planned*, *Released*, or *In Process* status.

Production Order Maintenance CUSTOMIZATION ▾ TOOLS ▾

Order Type: Warehouse:

ALL RECORDS **OPEN** PLANNED RELEASED IN PROCESS COMPLETED CLOSED CANCELLED

Drag column header here to configure filter

			Order Type	Production Nbr.	Inventory ID	Warehouse	Status	Start Date	End Date	Qty. to Produce
>			RO	AM000032	AMKEURIG45	WHOLESALE	Planned	3/22/2022	3/23/2022	50.00
			RO	AM000031	AMKEURIG45	WHOLESALE	Planned	2/15/2022	2/18/2022	100.00
			RO	AM000029	AMKEURIG45	WHOLESALE	Planned	2/10/2022	2/10/2022	3.00
			RO	AM000023	AMCTOBAT	WHOLESALE	Planned	2/9/2022	2/9/2022	25.00
			RO	AM000022	AMCTOBAT	WHOLESALE	Planned	2/4/2022	2/4/2022	50.00
			RO	AM000021	AMDOORSH01	WHOLESALE	Planned	2/4/2022	2/4/2022	200.00
			RO	AM000018	AMPIPECVR	WHOLESALE	Planned	2/11/2022	2/15/2022	100.00
			RO	AM000016	MGPCB	WHOLESALE	Planned	2/4/2022	2/4/2022	50.00
			RO	AM000013	MGBASE	WHOLESALE	Planned	2/4/2022	2/7/2022	100.00
			RO	AM000012	MGRESVINLT	WHOLESALE	Planned	2/7/2022	2/7/2022	10.00
			RO	AM000011	MGBASE	WHOLESALE	Planned	2/7/2022	2/8/2022	100.00
			RO	AM000008	AMTOOLOSP	WHOLESALE	Planned	2/4/2022	2/7/2022	100.00
			RO	AM000007	AMKEURIG45	WHOLESALE	Planned	2/10/2022	2/11/2022	30.00
			RO	AM000003	MGPCB	WHOLESALE	In Process	2/7/2022	2/7/2022	15.00

1-14 of 14 records

Figure: The new Open tab on the Production Order Maintenance list of records

Mobile: Deprecation of Business Card Recognition

In Acumatica ERP 2023 R2, the *Image Recognition for Business Cards* feature will be deprecated. This feature is used to create leads and contacts by scanning their business cards into the Acumatica mobile app. After the feature is deprecated, users will still be able to create leads and contacts manually or by using the Acumatica add-in for Outlook. Additionally, leads can be imported from a purchased list.



Acumatica ERP2023 R1 is the last release in which the *Image Recognition for Business Cards* feature is available.

To learn about the ways users can create leads, see the following topics:

- [Leads: To Create a Lead Manually](#)
- [Leads: To Import Leads from a Purchased List](#)
- [Leads: To Create a Lead by Using the Acumatica Add-In for Outlook](#)

To learn about the ways users can create contacts, see the following articles:

- [Contacts: To Create a Contact Manually](#)
- [Contacts: To Create a Contact by Using the Acumatica Mobile App](#)
- [Contacts: To Create a Contact by Using the Acumatica Add-In for Outlook](#)

Payroll: Canadian Payroll

In previous versions of Acumatica ERP, the payroll functionality was available only for United States-based companies. Starting in Acumatica ERP 2023 R1, payroll can be configured for use in a Canadian organization.

New Features

On the [Enable/Disable Features](#) (CS100000) form, the **US Payroll** and **Canadian Payroll** check boxes have been added under the **Payroll** group of features, as shown in the following screenshot. These check boxes can be used to enable the corresponding features.

Enable/Disable Features

↶ MODIFY ENABLE

Activation Status: Validated

- ☒ Finance
 - ☒ Standard Financials
 - ☒ Multibranch Support
 - ☒ Multicompany Support
 - ☐ Business Account Locations
 - ☐ Multicurrency Accounting
- ☒ Payroll
 - ☐ US Payroll
 - ☒ Canadian Payroll
- ☒ Platform
 - ☒ Monitoring & Automation
 - ☒ Approval Workflow
 - ☐ Field-Level Audit

Figure: New check boxes on the Enable/Disable Features form

The new check boxes become available for selection only after the **Payroll** check box is selected, and then either the **US Payroll** check box or the **Canadian Payroll** check box must be also selected before the set of features can be enabled. The **US Payroll** and **Canadian Payroll** check boxes cannot both be selected at the same time in the same tenant.

If the **US Payroll** check box is selected and the set of features are enabled, the U.S. payroll functionality is activated. In previous versions of Acumatica ERP, this functionality was enabled if the **Payroll** check box was selected.

If the *Canadian Payroll* feature is enabled, the Canadian edition of the payroll functionality becomes activated in the system and the tax engine downloads only Canada-specific information, such as taxes and reporting types.

The key differences that distinguish the Canadian payroll functionality from the U.S. payroll functionality are described in the sections below.

Country Selector

If the *Canadian Payroll* feature is enabled on the [Enable/Disable Features](#) form, an employee may have a payroll record only if *Canada* is selected in the **Country** box in the address information specified for each of the following entities:

- The employee record, on the [Employees](#) (EP203000) form, in the **Address Info** section of the **General** tab
- The branch to which the employee belongs, on the [Branches](#) (CS102000) form, in the **Main Address** section of the **Branch Details** tab

- The work locations of the employee, on the [Work Locations](#) (PR101040) form, in the **Main Address** section

Changes to the Earning Type Codes Form

On the [Earning Type Codes](#) (PR102000) form, the following changes have been introduced, as shown in the screenshot below:

- In the Summary area, the **Public Holiday** check box has been added. This check box is available only for the earnings of the *Time Off* earning type category. If this check box is selected, earnings of this type will be included in records of employment generated for employees whose employment has been terminated. For details, see the [Record of Employment](#) section below.
- On the **CAN Tax and Reporting** tab, the **Reporting Type** box has been renamed to **Federal Reporting Type**, and the **Quebec Reporting Type** box has been added for the reporting types specific to the province of Quebec.

Earning Type Codes
HL - Public Holidays

* Code:	HL	<input checked="" type="checkbox"/> Active
* Description:	Public Holidays	<input checked="" type="checkbox"/> Contributes to WCC Calculation
Earning Type Category:	Time Off	<input checked="" type="checkbox"/> Accrue Time Off
Multiplier:	1.00	<input checked="" type="checkbox"/> Public Holiday
* Regular Time Type Code:	RG - Regular Hours	

CAN TAX AND REPORTING PROJECT SETTINGS GL ACCOUNTS

* Wage Type:	125HSA
* Federal Reporting Type:	Box36
Quebec Reporting Type:	200

☐ Supplemental Income

Tax Code	Name	Taxability
----------	------	------------

Figure: New and updated settings on the Earning Type Codes form

Record of Employment

In Canada, an employer must submit a record of employment to the government authorities for each employee whose employment in the company has been terminated for some reason.

In Acumatica ERP, a payroll manager can create a record of employment by using the new [Record of Employment](#) (PR303000) form, either by navigating to the form directly or by clicking the **Create ROE** command on the More menu of the [Paychecks and Adjustments](#) (PR302000) form for the final paycheck that was created for the employee, as shown in the following screenshot.

Figure: The new command on the Paychecks and Adjustments form

The [Record of Employment](#) form, which is shown in the following screenshot, has been added. In the out-of-the-box system, the link to this form can be found in the **Payroll** workspace under the **Transactions** category.

Figure: Record of Employment form

The employee's branch and the final paycheck associated with the employee are used as the sources of the data that the system inserts on the [Record of Employment](#) form.

On the **Separation Payments** tab of the [Record of Employment](#) form, in the **Statutory Holidays Paid For (Block 17B)** table, the system lists the earnings included in the final paycheck and for which the **Public Holiday** check box is selected on the [Earning Type Codes](#) form.

When processing a record of employment (ROE), a user can perform the following actions:

- Export an ROE to an XML file and attach it to the document
- Mark an ROE as submitted after the document has been sent to the government authorities
- Reopen a generated ROE
- Delete an ROE that has the *Open* or *Exported* status
- Amend a submitted record of employment

On the **General** tab of the [Payroll Preferences](#) (PR101000) form, the **ROE Numbering Sequence** box has been added to the **Numbering Settings** group of elements, as shown in the following screenshot. In this box, an administrative user can specify a numbering sequence for records of employment.

The screenshot shows the 'Payroll Preferences' form with the 'GENERAL' tab selected. The 'NUMBERING SETTINGS' section contains the following fields:

- Batch Numbering Sequence: ALLOCATION - GL Allocation
- Transaction Numbering Sequence: ALLOCATION - GL Allocation
- Payroll Batch Numbering Sequence: ALLOCATION - GL Allocation
- ROE Numbering Sequence: APPAYMENT - AP Payment** (highlighted with a red box)
- Batch for Submission Numbering: ALLOCATION - GL Allocation

The 'ACCOUNT SETTINGS' section contains the following fields:

- Use Earnings Account from: Employee
- Use Deduction Liability Account from: Employee
- Use Benefit Expense Account from: Employee
- Use Benefit Liability Account from: Employee
- Use Tax Expense Account from: Employee
- Use Tax Liability Account from: Employee
- Use PTO Expense Account From: PTO Bank
- Use PTO Liability Account From: PTO Bank
- Use PTO Asset Account From: PTO Bank

The 'MISCELLANEOUS SETTINGS' section contains the following fields:

- Pay Rate Decimal Places: 2
- Allow Changing Pay Period Dates: ☐
- Regular Hours Earning Type for: RG - Regular Hours
- Holiday Earning Type for Quick: HL - Public Holidays
- Commission Earning Type: BN - Bonus
- Enable Piecework as an Earning Type: ☐
- Hold Paycheck on Entry: ☐

The 'POSTING SETTINGS' section contains the following fields:

- Project Cost Assignment: No Cost Assigned
- Time Posting Option: Do Not Post PM Transaction
- Update GL: ☒
- Post Summary on Updating GL: ☐

Figure: ROE Numbering Sequence on the Payroll Preferences form

Tax Forms

In Canada, an employer has to prepare T4 tax forms—and in Quebec, RL1 tax forms—and send them to the government on an annual basis. With these tax forms, the employer reports about the following:

- Salary, wages (including the notice about pay in lieu of termination), tips or gratuities, bonuses, vacation pay, employment commissions, gross and insurable earnings of self-employed fishers, and all other remuneration the employer paid to employees during the year
- Taxable benefits or allowances
- Retiring allowances
- Deductions withheld during the year
- Pension adjustment amounts for employees who accrued a benefit for the year under a registered pension plan (RPP) or deferred profit sharing plan (DPSP)

The tax forms are prepared for all employees who received remuneration from the employer during the year if the following conditions have been met:

- The employer had to deduct QPP contributions, EI premiums, PPIP premiums, or income tax from the remuneration.
- The remuneration exceeded the amount of \$500 CAD.

On the [Prepare Tax Forms](#) (PR502000) form, which is a new processing form, a payroll manager can do the following:

- Generate T4 and RL1 tax forms for every year for each relevant employee associated with any relevant legal entity available in the system.
- Preview generated documents.
- Generate corrected documents for selected employees.

Because tax forms are generated automatically based on the data stored in the system, a generated tax form cannot be corrected directly on the [Prepare Tax Forms](#) form. To correct a generated tax form, the user needs to update the relevant information in the system and then generate a correction document.

The form is shown in the following screenshot.

The screenshot shows the 'Prepare Tax Forms' interface. On the left, there's a table of employees with columns for Employee ID, Employee Name, Branch, Pay Group, Publish From, and Docum. The table lists several employees, including Maxwell Baker, Layla Beauvoir, Steve Church, Alberto Jimenez, John Kinne, Peter Lai, Joshua Mueller, and Grace Norman. On the right, a preview of a T4 Statement of Remuneration Paid is shown for Maxwell Baker, including fields for Year, Amount, and various tax-related details.

Figure: Prepare Tax Forms form

The table on the [Prepare Tax Forms](#) form displays a list of employees for whom tax forms of the selected type are required for the specified year. If a tax form has already been generated, the identifier of the employee's last published batch for submission is displayed in the **Published From** column, and all the batches for submission in which the employee is included are listed in the **Batch ID** column. The **Tax Form** pane displays a preview of the generated tax form for the employee that is selected in the table.

In the out-of-the-box system, a link to the [Prepare Tax Forms](#) form has been added to the **Payroll** workspace under the **Processes** category.

On the [Tax Form History](#) (PR3040PL) form, which is a new inquiry form that is shown in the following screenshot, the payroll manager can review existing batches for submission that have been generated through the [Prepare Tax Forms](#) form.

The screenshot shows the 'Tax Forms History' interface. It includes a table with columns for Batch ID, Form Name, Document Type, Year, Company/Branch, Number of Employees, and Created On. The table shows a single batch for 'T4 Statement of Remuneration' for the year 2019, with 8 employees and a creation date of 11/22/2022.

Figure: Tax Form History form

If the user clicks a link in the **Batch ID** column, the [Batch for Submission](#) (PR304000) form, which is a new form, opens populated with the data of the selected batch.

By using the [Batch for Submission](#) form, a payroll manager can do the following:

- Prepare the slips in XML format to submit them to the government authorities.
- Generate PDFs of the tax forms included in the batch.
- Publish or unpublish tax forms for selected employees. Marking a tax form as published indicates that it has been submitted to the government authorities.

The [Batch for Submission](#) form is shown in the following screenshot.

The screenshot shows the 'Batch for Submission' form on the left and a preview of a T4 Statement of Remuneration on the right.

Batch for Submission Form:

- Batch ID: 000001
- Form Name: T4 Statement of Remuneration
- Year: 2019
- Company/Branch: CAPITAL - Revision Two Capital
- Document Type: Original
- Downloaded At: [blank]
- Number of Em: 8
- Buttons: PUBLISH, UNPUBLISH, [icon]

Employee ID	Employee Name	Branch	Pay Group	Published
EP00000002	Maxwell Baker	PRODWHOLE	MONTHLY	<input checked="" type="checkbox"/>
EP00000003	Layla Beauvoir	PRODWHOLE	MONTHLY	<input type="checkbox"/>
EP00000016	Alberto Jimenez	PRODWHOLE	MONTHLY	<input type="checkbox"/>
EP00000021	John Kinne	PRODWHOLE	MONTHLY	<input type="checkbox"/>
EP00000010	Steve Church	PRODWHOLE	WEEKLY	<input type="checkbox"/>
EP00000022	Peter Lai	PRODWHOLE	MONTHLY	<input type="checkbox"/>
EP00000025	Joshua Mueller	PRODWHOLE	MONTHLY	<input type="checkbox"/>
EP00000026	Grace Norman	PRODWHOLE	MONTHLY	<input type="checkbox"/>

T4 Statement of Remuneration Preview:

Statement of R... 1 / 2 | - 82% + | [icon] [icon] [icon]

Canada Revenue Agency / Agence des Revenus du Canada

Year / Année: 2019

Employment name / Nom de l'employeur: Products Wholesale

Employment number / Numéro de l'employeur: 1760229

Employer's name and address / Nom et adresse de l'employeur: Baker, Maxwell, Toronto, ON, CA, M5B2H4

Employee's name and address / Nom et adresse de l'employé: [blank]

Other information / Autres renseignements: [blank]

Figure: Batch for Submission form

In the out-of-the-box system, a link to the [Tax Form History](#) form has been added to the **Payroll** workspace under the **Inquiries** category.

On the **General** tab of the [Payroll Preferences](#) (PR101000) form, the **Batch for Submission Numbering Sequence** box has been added to the **Numbering Settings** section, as shown in the following screenshot. In this box, an administrative user can specify a numbering sequence for batches for submission.

The screenshot shows the 'Payroll Preferences' form, General tab.

GENERAL TRANSACTION DATE EXCEPTIONS

NUMBERING SETTINGS

- Batch Numbering Sequence: ALLOCATION - GL Allocation
- Transaction Numbering Sequence: ALLOCATION - GL Allocation
- Payroll Batch Numbering Sequence: ALLOCATION - GL Allocation
- ROE Numbering Sequence: APPAYMENT - AP Payment
- Batch for Submission Numbering Sequence: **ALLOCATION - GL Allocation** (highlighted)

MISCELLANEOUS SETTINGS

- Pay Rate Decimal Places: 2
- Allow Changing Pay Period Dates: ☐
- Regular Hours Earning Type for: RG - Regular Hours
- Holiday Earning Type for Quick: HL - Public Holidays
- Commission Earning Type: BN - Bonus
- Enable Piecework as an Earning Type: ☐
- Hold Paycheck on Entry: ☐

POSTING SETTINGS

- Project Cost Assignment: No Cost Assigned
- Time Posting Option: Do Not Post PM Transaction
- Update GL: ☒
- Post Summary on Updating GL: ☐

ACCOUNT SETTINGS

- Use Earnings Account from: Employee
- Use Deduction Liability Account from: Employee
- Use Benefit Expense Account from: Employee
- Use Benefit Liability Account from: Employee
- Use Tax Expense Account from: Employee
- Use Tax Liability Account from: Employee
- Use PTO Expense Account from: PTO Bank
- Use PTO Liability Account from: PTO Bank
- Use PTO Asset Account from: PTO Bank

Figure: Batch for Submission Numbering Sequence box on the Payroll Preferences form

On the [My Payroll Documents](#) (PR405000) form, a new tab, **Annual Forms**, has been added, as shown in the following screenshot. On this tab, a user can review a list of their personal T4 and RL1 tax forms that are available for the years of their employment and download each of these tax forms in the PDF format.

My Payroll Documents

CUSTOMIZATION TOOLS

DOCUMENTS

Pay Stubs

Transaction Date	Type	Reference Nbr.	* Pay Group	Pay Period	Net Pay
> 1/1/2019	Regular	000003	MONTHLY	01-2019	9,945.00

Annual Forms

Form Name	Year	Company/Branch	Document Type
> T4 Statement of Remuneration Paid	2019	CAPITAL	Original

Figure: The Annual Forms tab of the My Payroll Documents form

Remittance Summary

In Canada, an organization needs to periodically fill in the PD7A report, which tells the government how much tax should be remitted to it. To be able to do this, a payroll administrator needs to know the CPP, EI, and Federal/Provincial tax amounts calculated for the last pay period, as well as the taxable gross and the total number of employees included in the last pay period.

The [Taxes by Paycheck](#) (PR641070) report has been enhanced with this remittance information, which is now shown in the **Grand Total** section, as illustrated in the following screenshot.

GRAND TOTAL				
Tax	Taxable Hours	Taxable Wages	Taxable Gross	Tax Amount
CAN FIT - CANADA FWT	414.40	18,429.86	18,429.86	4,735.34
CAN ER CPP - CANADIAN PENSION PLAN ER	414.40	18,429.86	18,429.86	894.15
CAN CPP - CANADIAN PENSION PLAN EE	414.40	18,429.86	18,429.86	894.15
CAN ER EI - CANADIAN EMPLOYMENT INS ER	414.40	18,429.86	18,429.86	418.01
CAN EI - CANADIAN EMPLOYMENT INSURANCE EE	414.40	18,429.86	18,429.86	298.58

CPP Contributions: 1788.30

EI Premiums: 716.59

Tax Deductions: 4735.34

Current Payment: 7240.23

Gross Payroll: 18429.86

Nbr. of Employees in last pay period: 2

Figure: Remittance summary in the Taxes by Paycheck report

New Settings of PTO Banks

On the [PTO Banks](#) (PR204000) form, the **Create GL Transactions on Accrual** check box has been added to the Summary area. If this check box is selected, the system keeps track of both the number of hours and the amount for the PTO bank. Also, the following changes occur on the **General Settings** tab:

- **Carryover Type** becomes automatically set to *Total* and non-editable.
- **Front Loading Amount** also becomes non-editable.
- The **Disbursing Rules** group of settings appears. It includes the **Default Disbursing Type** box, in which the *Current Rate* and *Average Rate* options are available for selection.

These settings are shown in the following screenshot.

PTO Banks

PTO - Personal Time

* Bank ID: PTO - Personal Time
☒ Active

Accrual Method: Percentage
 ☒ Allow Negative Balance

Default Accrual %: 0.000000
 ☐ Disburse Only from Carryover

Balance Limit: 0.00
 ☒ Create GL Transactions on Accrual

* Disbursing Earning Type: PT - Personal Time

Description: Personal Time

* Start Date: January 1

GENERAL SETTINGS GL ACCOUNTS

CARRYOVER RULES

Carryover Type: Total

Carryover Amount: 0.00

Pay Carryover After (Months): 0

FRONT LOADING RULES

Front Loading Amount: 0.00

SETTLEMENT RULES

On Settlement: Pay Balance

DISBURSING RULES

Default Disbursing Type:

Current Rate
 Current Rate
 Average Rate

Figure: New settings on the General Settings tab

Also, the selection of the **Create GL Transactions on Accrual** check box causes the new **GL Accounts** tab to appear (see the following screenshot), where a user can specify accounts to record expenses and liabilities related to paid time off.

PTO Banks

PTO - Personal Time

* Bank ID: PTO - Personal Time
☒ Active

Accrual Method: Percentage
 ☒ Allow Negative Balance

Default Accrual %: 0.000000
 ☐ Disburse Only from Carryover

Balance Limit: 0.00
 ☒ Create GL Transactions on Accrual

* Disbursing Earning Type: PT - Personal Time

Description: Personal Time

* Start Date: January 1

GENERAL SETTINGS **GL ACCOUNTS**

Expense Account:

Expense Sub.:

Liability Account:

Liability Sub.:

Asset Account:

Asset Sub.:

Figure: The GL Accounts tab

The **Disbursing Type** column has been added to the table on the **Paid Time Off** tab of both the [Employee Payroll Class](#) (PR202000) form and the [Employee Payroll Settings](#) (PR203000) form. On both forms, the column is hidden by default.

On the **Paid Time Off** tab of the [Paychecks and Adjustments](#) (PR302000) form, the **PTO Details** button has been added to the table toolbar. A user can click this button to open the **PTO Details** dialog box, which displays the details of the selected PTO bank.

On the **Paid Time Off** tab of the [Employee Payroll Settings](#) form, the **View Payable Hours** button has been added to the table toolbar. A user can click this button to open the **View Payable Hours** dialog box, where the user can review additional information about the selected PTO bank, such as the pay rate and the number of available payable hours.

On the **General** tab of the [Payroll Preferences](#) form, in the **Account Settings** section, new settings have been added, as shown in the following screenshot. These settings may be used for setting up the sources from which the system will select the GL accounts and subaccounts when transactions that involve paid time off are posted to the general ledger.

Payroll Preferences

GENERAL TRANSACTION DATE EXCEPTIONS

NUMBERING SETTINGS

- Batch Numbering Sequence: ALLOCATION - GL Allocation
- Transaction Numbering Sequence: ALLOCATION - GL Allocation
- Payroll Batch Numbering Sequence: ALLOCATION - GL Allocation
- ROE Numbering Sequence: APPAYMENT - AP Payment
- Batch for Submission Numbering: ALLOCATION - GL Allocation

MISCELLANEOUS SETTINGS

Pay Rate Decimal Places: 2

☐ Allow Changing Pay Period Dates

Regular Hours Earning Type for: RG - Regular Hours

Holiday Earning Type for Quick: HL - Public Holidays

Commission Earning Type: BN - Bonus

☐ Enable Piecework as an Earning Type

☐ Hold Paycheck on Entry

POSTING SETTINGS

Project Cost Assignment: No Cost Assigned

Time Posting Option: Do Not Post PM Transaction

☒ Update GL

☐ Post Summary on Updating GL

ACCOUNT SETTINGS

- Use Earnings Account from: Employee
- Use Deduction Liability Account from: Employee
- Use Benefit Expense Account from: Employee
- Use Benefit Liability Account from: Employee
- Use Tax Expense Account from: Employee
- Use Tax Liability Account from: Employee
- Use PTO Expense Account From: PTO Bank
- Use PTO Liability Account From: PTO Bank
- Use PTO Asset Account From: PTO Bank

Figure: New account settings on the Payroll Preferences form

Support of EFT

To support the creation of EFT files according to the Canadian standard, a new export scenario, *Export PR Payments to EFT*, has been added. An administrative user can select this export scenario in the **Export Scenario** box on the **Settings for Use in PR** tab of the [Payment Methods](#) (CA204000) form, as illustrated in the following screenshot, for a payment method used for direct deposit payments related to Canadian employees. This export scenario is available if the *Canadian Payroll* or *Canadian Localization* feature is enabled (or both features are enabled) on the [Enable/Disable Features](#) (CS100000) form.

Payment Methods

DIRDEPOSIT - Direct deposit

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* Payment Method ID:	DIRDEPOSIT 🔍	<input checked="" type="checkbox"/> Use in AP	<input type="checkbox"/> Set Payment Date to Bank Transaction Date
	<input checked="" type="checkbox"/> Active	<input type="checkbox"/> Use in AR	<input checked="" type="checkbox"/> Require Remittance Information for Cash Account
Means of Payment:	Direct Deposit ▾	<input checked="" type="checkbox"/> Use in PR	
* Description:	Direct deposit		

ALLOWED CASH ACCOUNTS SETTINGS FOR USE IN AP SETTINGS FOR USE IN PR REMITTANCE SETTINGS

PROCESSING EXPORT SETTINGS

☐ Print Checks * Export Scenario: Export PR Payments to EFT 🔍

☒ Create Batch Payments

Figure: New export scenario

Payroll: Enhancement to the Workers' Compensation by Code Report

The [Workers' Compensation by Code](#) (PR641040) report has been enhanced. Now the **Total Excess Payroll** amount is displayed in the **Grand Total** section of the report, as illustrated in the following screenshot. This amount is the difference between the gross pay and the maximum insurable wage.

GRAND TOTAL						Total Exempt Amount:		0.00
SUMMARY OF EMPLOYEE WAGES						Total WC Appl. Wages:		140,816.00
Employee ID	Employee Name	Gross Payroll	WC Not Appl. Payroll (State of WA)	WC Exempt Amt (State of WA)	WC Appl. Payroll (State of WA)	Total WC Premium Due:		1,600.00
EP00000001	Michael Andrews	41,666.66	0.00	0.00	41,666.66	Total Benefit Amount:		800.00
EP00000002	Maxwell Baker	33,383.34	50.00	0.00	33,333.34	Total Deduction Amount:		800.00
HANSONJOE	Joe Hanson	9,000.00	0.00	0.00	9,000.00	Total Excess Payroll:		140,816.00
GIMMETHANN	Hanna Gimmet	9,000.00	0.00	0.00	9,000.00			
SANCHEZALE	Alex Sanchez	9,600.00	0.00	0.00	9,600.00			
REINSTEINT	Terry Reinstein	6,000.00	0.00	0.00	6,000.00			
FARRALLPAT	Pat Farrall	6,000.00	0.00	0.00	6,000.00			
SANTANADIE	Diego Santana	7,000.00	0.00	0.00	7,000.00			
KINLEARJOR	Jordan Kinlear	9,616.00	0.00	0.00	9,616.00			
PANGERVICT	Victor Panger	9,600.00	0.00	0.00	9,600.00			

Figure: The new amount in the Workers' Compensation by Code report

Payroll: New Substitute Form for Payroll Batches

Starting in Acumatica ERP 2023 R1, a new substitute form, *Payroll Batches (PR3010PL)*, is available in the system if a feature in the *Payroll* group of features is enabled on the [Enable/Disable Features](#) (CS100000) form.

The *Payroll Batches (PR3010PL)* form, which is shown in the following screenshot, is a generic inquiry that opens when a user clicks the name of the [Payroll Batches](#) entry form in a workspace or the search results.

Payroll Batches CUSTOMIZATION ▾ TOOLS ▾

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ALL RECORDS CURRENT PAY PERIOD

Payroll Type	Batch ID	Status	Pay Group ID	Pay Period	Transaction Date	Period Start	Period End	Number of Employees	Number of Paychecks	Total Hour Qty	Total Earnings	Description	Created On
Regular	000080	Closed	MONTHLY	AA-2021	12/31/2021	1/1/2022	1/31/2022	3	3	504.00	46,250.00		2/4/2022
Regular	000079	Closed	MONTHLY	12-2021	12/1/2021	12/1/2021	12/31/2021	3	3	552.00	46,250.00		1/16/2022
Regular	000078	Closed	MONTHLY	11-2021	11/1/2021	11/1/2021	11/30/2021	3	3	528.00	46,250.00		12/2/2021
Regular	000077	Closed	MONTHLY	10-2021	10/1/2021	10/1/2021	10/31/2021	3	3	504.00	46,250.00		11/2/2021
Regular	000076	Closed	MONTHLY	09-2021	9/1/2021	9/1/2021	9/30/2021	3	3	528.00	46,250.00		10/3/2021
Regular	000075	Closed	MONTHLY	08-2021	7/30/2021	8/1/2021	8/31/2021	3	3	528.00	46,250.00		9/2/2021
Regular	000074	Closed	MONTHLY	07-2021	7/1/2021	7/1/2021	7/31/2021	3	3	528.00	46,250.00		8/1/2021
Regular	000073	Closed	MONTHLY	06-2021	6/1/2021	6/1/2021	6/30/2021	3	3	528.00	46,250.00		7/3/2021
Regular	000072	Closed	MONTHLY	05-2021	4/30/2021	5/1/2021	5/31/2021	3	3	504.00	46,250.00		6/1/2021
Regular	000071	Closed	MONTHLY	04-2021	4/1/2021	4/1/2021	4/30/2021	3	3	528.00	46,825.84		5/1/2021
Regular	000070	Closed	MONTHLY	03-2021	3/1/2021	3/1/2021	3/31/2021	3	3	552.00	48,556.56	March 2021 Monthly Pa...	4/2/2021
Regular	000069	Closed	MONTHLY	02-2021	2/1/2021	2/1/2021	2/28/2021	3	3	500.00	45,287.40		4/2/2021
Regular	000066	On Hold	CSTRWEEKLY	01-2021	1/7/2021	12/27/2020	1/2/2021	8	0	340.00	14,124.00	Construction Weekly Pa...	1/14/2021
								Sum: 510	Sum: 502	Sum: 31,402.07	Sum: 1,935,850.94		

1-13 of 80 records 1 of 7 pages

Figure: The new substitute form

The form has the following default filter tabs:

- **All Records:** Displays the complete list of payroll batches. The tab is opened by default when a user opens the form.
- **Current Pay Period:** Lists the payroll batches whose pay period has the nearest transaction date in the future.


Platform: Archiving Old Documents

From year to year, Acumatica ERP customers create and store more and more database records of transactional documents, such as sales orders, shipments, and invoices. One document is stored in multiple database tables, and the volume of each of these tables grows fast. (For example, the data of a sales order is stored in many database tables, including `SOOrder`, `SOLine`, `SOLineSplit`, `SOOrderDiscountDetail`, `SOTaxTran`, `SOAdjust`, and `SOAddress`.) The number of records in these tables may affect the performance of data-searching operations.

Document Archival Functionality

In Acumatica ERP 2023 R1, new functionality for archiving database records has been introduced. This functionality provides the ability to archive the documents that are older than the retention period specified on the new *Archival Policy* (*SM200400*) form and that are processed to completion (for example, a sales order that has the *Completed* status and all its lines are billed and closed or canceled).



The archival of documents improves the performance of daily use of Acumatica ERP because the archived records are not included in the results of database queries that are executed during regular user activity—that is, opening generic inquiries, lookup tables, tabs that load a list of records, and other operations. A user can still open the archived records in the system on their data entry forms by using a direct link from another document or by specifying the key values—that is, the order type and order number. In Acumatica ERP 2023 R1, the archiving can be configured for only two entities: sales orders and shipments.



The archiving mechanism is based on database partitioning. During the upgrade to Acumatica ERP 2023 R1, the system automatically creates new partitions for sales order- and shipment-related tables in the existing database. Note that partitioning on the upgrade cannot be configured, and it will remove any existing partitions of the database from the upgraded tables.

A system administrator can configure the archival of entities on the *Archival Policy* (*SM200400*) form (shown in the following screenshot). On this form, the administrator can add the entity that would be archived and the retention period for it. On this form, the administrator can also specify the duration of the archival process.

Archival Policy



Archiving Process Duration (Hours):








Table Name	Entity Name	Retention Period (Months)
SOOrder	Sales Order	12
> SOShipment	Shipment	24

Figure: The Archival Policy form

Once the system administrator has configured at least one entity that should be archived, they can open the new *Archive Documents* (*SM500400*) processing form (shown in the screenshot below) and review the list of dates and the number of documents that are ready to be archived on these dates. The archiving process may take a lot of time, and during this process, the performance of data entry forms can be affected. Setting the duration time of the archiving process on the *Archival Policy* form can help the system administrator adjust the process to the

company's working schedule (for example, the archival can be performed at night and last five hours). That is, the system administrator can specify a time when users are not likely to interact with the system.

Archive Documents

PROCESS

PROCESS ALL

Archiving Process Duration (Hours):

	Selected	Ready-to-Archive Date	All Documents	Shipment	Sales Order
	<input checked="" type="checkbox"/>	12/4/2023	6	3	3
	<input type="checkbox"/>	12/11/2023	50	25	25

Figure: The Archive Documents form

The results of the execution of the archival process can be reviewed on the new *Document Archival History* (SM400400) form (shown in the following screenshot), where the system shows the execution date, duration of the execution, number of the processed documents, and other execution details.

Document Archival History

EXECUTION DATE

From:

To:

All Records

	Execution Date	Duration	Executed By	All Documents
>	1/15/2023 4:18 PM	0:00:08	gibbs	6

	Ready-to-Archive Date	Duration	All Documents	Shipment	Sales Order
>	12/4/2023	0:00:08	6	3	3

Figure: The Document Archival History form

The ability to archive documents and extract these documents from the archive manually has been added to the [Sales Orders](#) (SO301000) and [Shipments](#) (SO302000) data entry forms. If the archival settings have been configured for the corresponding entity on the *Archival Policy* (SM200400) form, the new **Archive** (shown in the screenshot below) or **Extract** button becomes available on the form toolbar of the data entry form.

The new buttons are mutually exclusive. When the user clicks **Archive**, the system archives the document if it meets the archival criteria—that is, if the document is older than the retention period specified on the *Archival Policy* form and has been processed to completion. If the user opens an archived document, they can extract it from the archive by clicking **Extract** on the form toolbar.

Sales Orders

SO 000005 - GoodFood One Restaurant

NOTES ACTIVITIES FILES CUSTOMIZATION

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* Order Type:	SO	Customer:	GOODFOOD - GoodFood One Restaurant	Ordered Qty:	92.00
Order Nbr.:	000005	Location:	MAIN - Primary Location	Discount Total:	0.00
Status:	Completed	Contact:		Tax Total:	14.04
Date:	11/5/2022	Project:	X - Non-Project Code	Order Total:	230.04
Requested On:	11/5/2022	Description:	Sale of 52 pounds of apples and 40 pounds of oranges		
Customer Ord					
External Refer					

DETAILS TAXES FINANCIAL SHIPPING ADDRESSES SHIPMENTS PAYMENTS RELATIONS TOTALS

ADD ITEMS	ADD MATRIX ITEMS	ADD INVOICE	ADD BLANKET SO LINE	LINE DETAILS	PO LINK	ITEM AVAILABILITY		
Branch	Inventory ID	Free Item	Warehouse	Line Description	UOM	Quantity	Qty. On Shipments	Open Qty.
> HEADOFFICE	ORANGES	☐	WHOLESALE	Fresh oranges 1 lb	LB	40.00	40.00	0.00
> HEADOFFICE	APPLES	☐	WHOLESALE	Fresh apples 1 lb	LB	52.00	52.00	0.00

Figure: The Archive button on the Sales Orders form

The archived documents do not appear in the document lookup tables of data entry forms or in lists of records. Also, the user cannot open these documents by clicking buttons to navigate between records on the form toolbar of data entry forms.

If the user opens the archived document by using a direct link from another document or by specifying the key values on a data entry form, most of the boxes, buttons, and actions are disabled for this document. Archived sales orders can be copied, printed, and extracted from the archive. Archived shipments can only be extracted from the archive. The archived document is not operable, and the user can only view it for reference. To make the document operable again, the user needs to extract it from the archive.

By default, archived documents are excluded from the results of all generic inquiries and reports. The user can select the new **Show Archived Records** check box in the Summary area of an inquiry form or select the *Print or Only* option in the new **Archived Records** box on the **Print and Email Settings** tab of a report form to include archived documents in the results of the generic inquiry or report.



The inclusion of archived documents in the results of a generic inquiry or report can affect the performance of the selected operation.

The **ArchivedRecords** property has also been added to the **Behavior** section of the **Properties** pane in the Report Designer (shown in the following screenshot). In this box, the user can specify the default value for the **ArchivedRecords** box in a report of the Report Designer.

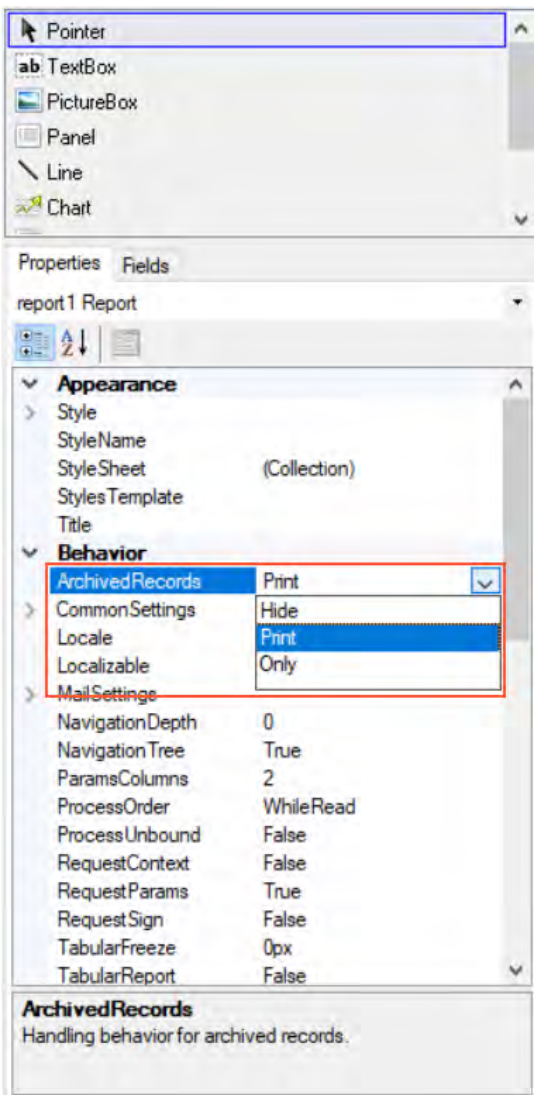


Figure: The ArchivedRecords property

Platform: Cloud Service Improvements

In Acumatica ERP 2023 R1, the cloud services have been enhanced as follows:

- The cloud service for mobile push notifications has been added. A system administrator can check the diagnostics for the service on the [Cloud Service Diagnostics](#) (SM205090) form.
- The user interface of the [Cloud Service Diagnostics](#) form has been improved. On the form, services and actions have been reorganized.

Platform: Deprecation of Automation Steps

In Acumatica ERP 2023 R1, the previously provided automation steps and automation definitions have been removed. Customizers used these on the [Automation Steps](#) (SM205000) and [Automation Definitions](#) (SM205010) forms, respectively.

For the following forms, automation steps are no longer available:

- [Production Order Maintenance](#) (AM201500)
- [Engineering Change Request](#) (AM210000)
- [Engineering Change Order](#) (AM215000)
- [Vendor Shipments](#) (AM310000)
- [Synchronize Cards](#) (CA206000)
- [Cash Transactions](#) (CA304000)
- [Marketing Campaigns](#) (CR202000)
- [Customer Contracts](#) (CT301000)
- [Fixed Assets](#) (FA303000)
- [Journal Transactions](#) (GL301000)
- [Wiki](#) (SM202005)
- [System Email Accounts](#) (SM204002)
- [Email Templates](#) (SM204003)
- [<Scenario Name>](#) (WZ201500)

In Acumatica ERP 2023 R1, although automation steps will not work for the forms listed above, they will still work for custom forms (that is, for forms created by customizers from scratch).

Starting in Acumatica ERP 2023 R2, the automation step functionality will be deprecated, and the [Automation Definitions](#) and [Automation Steps](#) forms will be unavailable.

Automation Changes

Customizations that use automation steps for the forms mentioned above will no longer work. Customizers will need to redesign the automation of the processes by using the workflow engine.

Existing workflows can be customized in the Customization Project Editor (see [Workflow UI Guide](#)) or by extending graphs and workflows (see [Workflow API Guide](#)).

Platform: Resetting Access Rights for Roles

In previous versions of Acumatica ERP, after a customizer published a customization project, the system reset the access rights for a screen to *Not Set* for roles that had the *Not Set* access rights in the customization project, as well as for roles that were not added to the customization project.

In Acumatica ERP 2023 R1, the customizer can select whether to reset the access rights for roles that are not added to the customization project.

To support this functionality, the following changes have been introduced on the [Access Rights](#) page of the Customization Project Editor:

- The Search box (see Item 1 in the following screenshot) and the **Last Modified On** column (Item 2) have been added to the **Add Access Rights for Screen** dialog box. (The customizer opens this dialog box by clicking **Add New Record** on the page toolbar.)

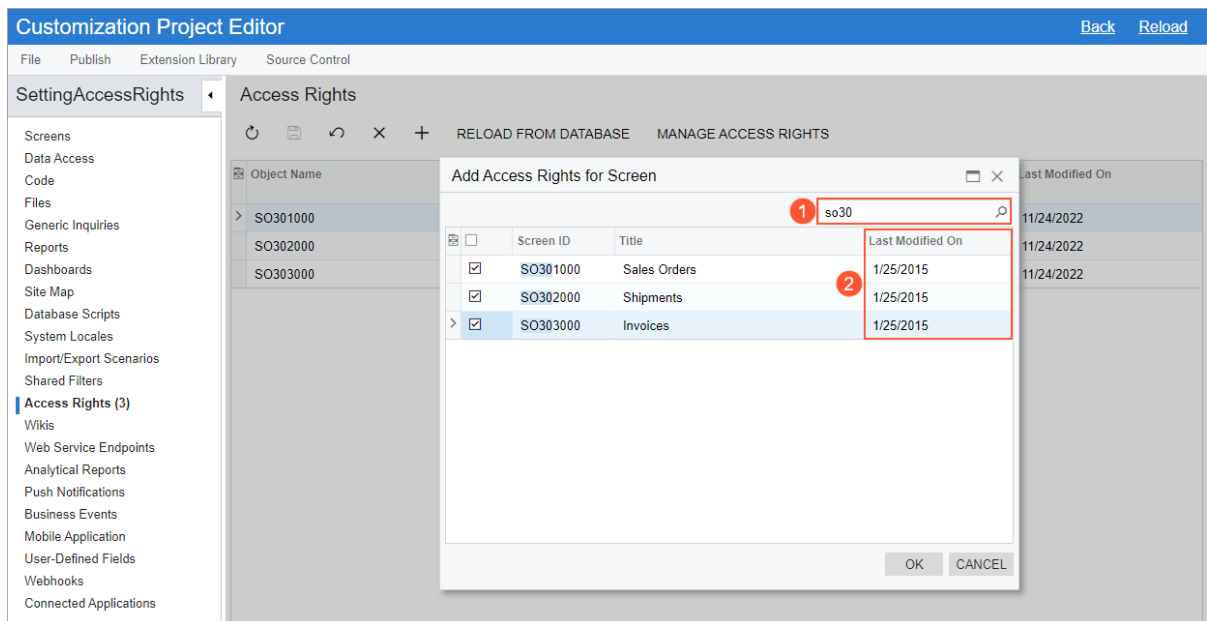


Figure: The updated Add Access Rights for Screen dialog box

- The **Reset Permissions** column with a check box has been added to the table on the page (see the following screenshot).

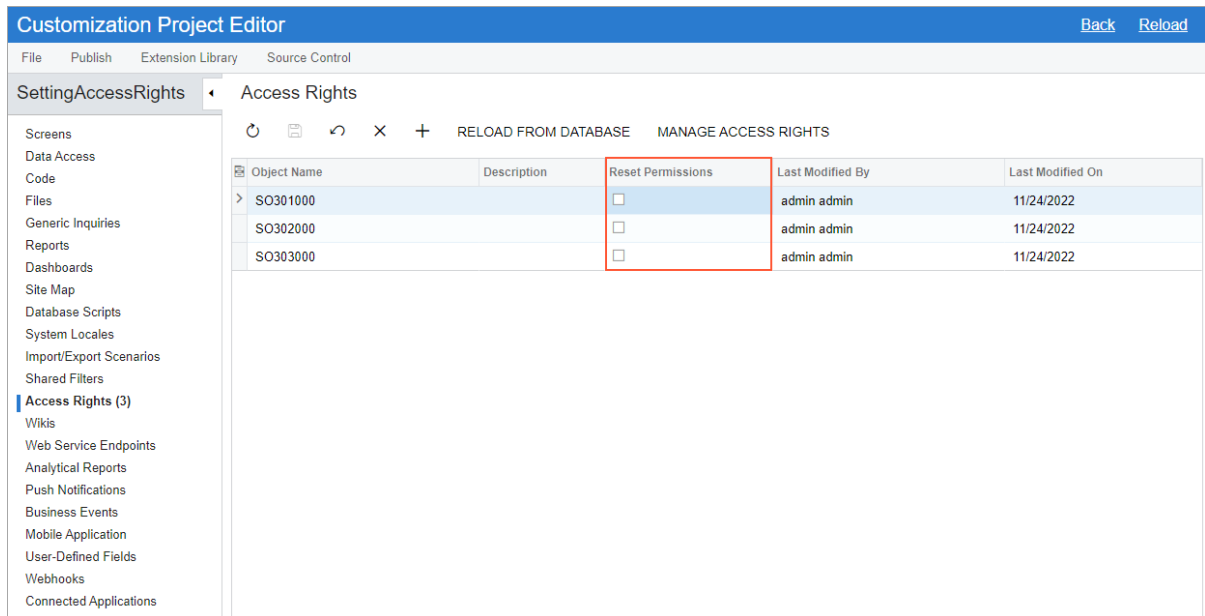


Figure: The Reset Permissions column

The following examples explain in detail how these changes are processed by the system.

Usage Example 1

Suppose that the customizer has an Acumatica ERP instance in which the customizer sets the following access rights for the [Sales Orders](#) (SO301000) form on the [Access Rights by Screen](#) (SM201020) form.

User Role	Access Rights
AP Admin	Edit
AR Admin	Revoked
CA Admin	Not Set

Further suppose that the customizer adds the access rights (the *ScreenWithRights* items) for the [Sales Orders](#) form (which is the screen with the SO303000 ID) to a customization project and exports this project.

On another instance of Acumatica ERP, the customizer imports the customization project and makes changes by performing the following general steps:

1. On the [User Roles](#) (SM201005) form, creates a role named *MR Admin*.
2. On the [Access Rights by Screen](#) form, specifies the following access rights for the [Sales Orders](#) (SO301000) form.

User Role	Access Rights
AP Admin	Delete
AR Admin	View Only
CA Admin	Edit

User Role	Access Rights
<i>MR Admin</i>	<i>Delete</i>

- Opens the imported customization project.
- In the table on the [Access Rights](#) page, selects the **Reset Permissions** check box.

The system displays a warning for the added item (see the following screenshot).

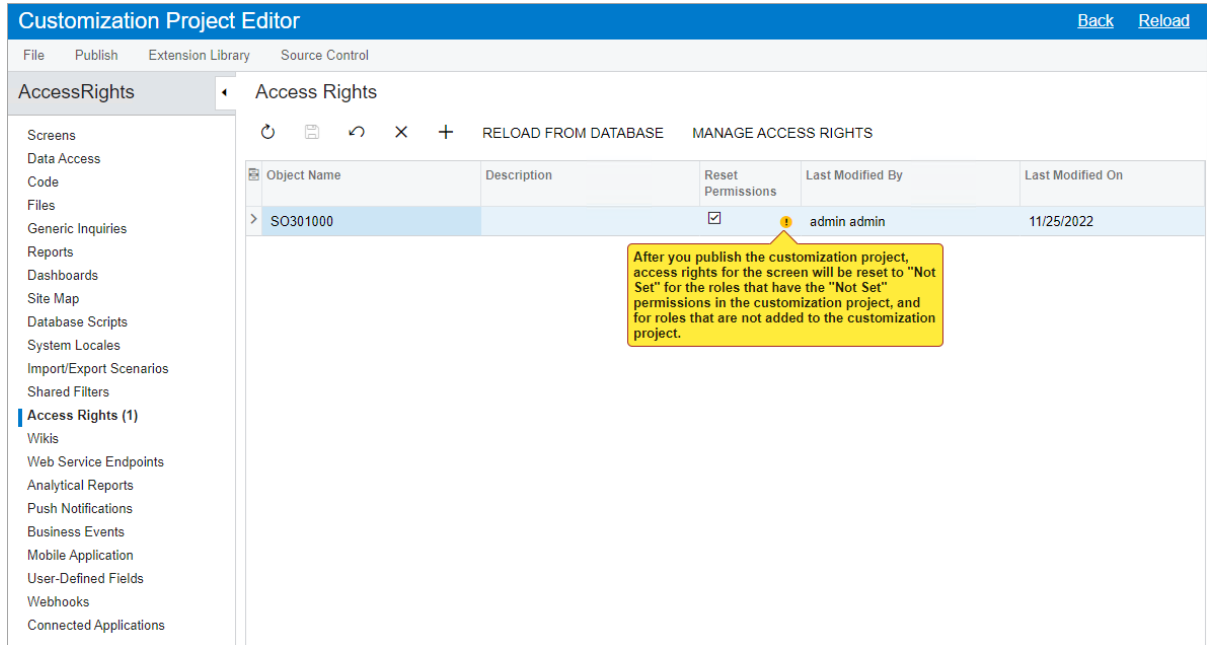


Figure: The warning about resetting access rights

- Publishes the customization project.
- On the [Access Rights by Screen](#) (SM201020) form, makes sure that the system has updated the access rights for the [Sales Orders](#) (SO301000) form to the following.

User Role	Access Rights
<i>AP Admin</i>	<i>Edit</i>
<i>AR Admin</i>	<i>Revoked</i>
<i>CA Admin</i>	<i>Not Set</i>
<i>MR Admin</i>	<i>Not Set</i>

The system has reset the access rights for roles included in the customization project, as well as for roles that were not included in it. Notice that the access rights for the *MR Admin* role have changed from *Delete* to *Not Set*, and that the access rights for the *AP Admin*, *AR Admin*, and *CA Admin* roles have changed to those specified in the customization project.

Usage Example 2

Suppose that the customizer has an Acumatica ERP instance in which the customizer sets the following access rights for the [Sales Orders](#) (SO301000) form on the [Access Rights by Screen](#) (SM201020) form.

User Role	Access Rights
AP Admin	Edit
AR Admin	Revoked
CA Admin	Not Set

Further suppose that the customizer adds the access rights for the [Sales Orders](#) form to a customization project and exports this project.

On another instance of Acumatica ERP, the customizer imports the customization project and makes changes by performing the following general steps:

1. On the [User Roles](#) (SM201005) form, creates a role named *MR Admin*.
2. On the [Access Rights by Screen](#) (SM201020) form, specifies the following access rights for the [Sales Orders](#) (SO301000) form.

User Role	Access Rights
AP Admin	Delete
AR Admin	View Only
CA Admin	Edit
MR Admin	Delete

3. Opens the imported customization project, and on the [Access Rights](#) page, clears the **Reset Permissions** check box for the *SO301000* screen.
4. Publishes the customization project.
5. On the [Access Rights by Screen](#) (SM201020) form, makes sure that the system has updated the access rights for the [Sales Orders](#) (SO301000) form to the following.

User Role	Access Rights
AP Admin	Edit
AR Admin	Revoked
CA Admin	Edit
MR Admin	Delete

The system has not changed the access rights for roles that were not included in the customization project; notice that the *MR Admin* role has retained the *Delete* access rights.



For customization projects created in previous versions of Acumatica ERP, the **Reset Permissions** check box is selected by default, and the system resets the access rights for roles that have not been added to these projects.

Publication of Multiple Projects with the Same *ScreenWithRights* Items

If the customizer publishes multiple customization projects that contain the same *ScreenWithRights* items, the system performs the following actions:

- If a level is specified for each of the projects, merges the projects, adds to the merged project the *ScreenWithRights* items from the project with the highest level, and displays a warning that the *ScreenWithRights* items from other projects will be ignored
- If the projects have the same level or no level is specified for at least one of the projects, does not publish the projects and displays an error

Platform: Specifying the User Inactivity Timeout from the UI

In Acumatica ERP 2023 R1, a system administrator can specify the user inactivity timeout value from the user interface. Previously, the timeout value could be specified only by editing one of the configuration files of the Acumatica ERP instance, as described in [To Configure the Session Timeout](#).

Specification of the User Inactivity Timeout

In the **Timeout Settings** section of the [Security Preferences](#) (SM201060) form, multiple new elements were added: the **Use WebConfig Value** check box and the **User Inactivity Timeout (Hours)** box (see the following screenshot).

The screenshot shows the 'Security Preferences' form with several sections. The 'TIMEOUT SETTINGS' section is highlighted with a red box and contains the following elements:

- ☒ Use WebConfig Value
- User Inactivity Timeout (Hours): 1

Other sections visible include:

- PASSWORD POLICY**: Force User to Change Password Every (0 Days), Minimum Password Length (0 Characters), Password Must Meet Complexity Requirements, Additional Password Validation Mask, Incorrect Password Alert.
- TWO-FACTOR AUTHENTICATION POLICY**: Two-Factor Authentication (None), Allow Email, Allow SMS.
- ACCOUNT LOCKOUT POLICY**: Lock Account After (3 Unsuccessful Login Attempts), Lock Account for (15 Minutes), Reset Lockout Counter After (10 Minutes).
- MODERN UI**: Menu Editor Role (Administrator).
- AUDIT**: Keep Audit History for (999 Months), Login, Login Failed, Logout, Screen Accessed, Session Expired, License Exceeded, Send Email Success, Send Email Error, OData Refresh, Customization Published.
- ENCRIPTION CERTIFICATES**: DB Encryption Certificate, PDF Signing Certificate.
- Allowed External Identity Providers**: A table with columns: Provider Name, Active, Realm, Application ID, Application Secret. It lists Exchange, Google, and Microsoft accounts.

Figure: The Security Preferences form

To update the user inactivity timeout value in the **User Inactivity Timeout (Hours)** box, the system administrator first clears the **Use WebConfig Value** check box. Then the system administrator specifies the new value in the **User Inactivity Timeout (Hours)** box and clicks **Save** on the form toolbar.



Changes to the timeout value will be applied to all tenants of the instance. For new user sessions, the changes take effect immediately. Signed-in users need to sign out of the system and sign in again.

The **User Inactivity Timeout (Hours)** box has the following options: 1, 2, 3, 5, and 8 hours. To specify a different value, the system administrator needs to update the timeout value in the `web.config` file and ensure that the **Use WebConfig Value** check box is selected. For instructions on how to update the timeout value in the `web.config` file, see [To Configure the Session Timeout](#).

Projects and Construction: Improvements in Tracking Project-Specific Inventory

In Acumatica ERP 2023 R1, a number of changes have been introduced to project-specific inventory tracking, as described in the following sections of this topic.

Deprecated Initialization Process

In previous versions of Acumatica ERP, after enabling the *Project-Specific Inventory* feature on the [Enable/Disable Features](#) (CS100000) form, an administrative user had to perform a stock initialization procedure to prepare the system for tracking project-specific inventory. The user did this by clicking **Initialize Stock** on the form toolbar of the [Recalculate Project Balances](#) (PM504000) form.

Now, due to improvements in the database tables that are used for storing inventory and cost center information, there is no need to initialize the stock. The **Initialize Stock** button has been removed from the form toolbar of the [Recalculate Project Balances](#) form.

Redesigned Inventory Tracking by Project Quantity

For the projects with the *Track by Project Quantity* inventory tracking mode specified in the **Inventory Tracking** box on the **Summary** tab of the [Projects](#) (PM301000) form, the system no longer tracks project-specific inventory costs by warehouse locations. Now for these projects, a single cost layer holds the costs that have been recorded for the same inventory item with the same project budget key, even if the item has been received to different warehouse locations of the same warehouse. This is because the `INCostStatus` database table, which stores the cost center data, no longer stores the `LocationID` attribute. For each inventory item being received for the project, the system tracks only the project budget key and the warehouse.



To utilize a scenario in which the system tracks costs for the projects with the *Track by Project Quantity* inventory tracking mode by warehouse locations, a user should select the **Cost Separately** check box for the needed warehouse locations on the **Locations** tab of the [Warehouses](#) (IN204000) form.

Availability Information

On the [Receipts](#) (IN301000), [Issues](#) (IN302000), [Adjustments](#) (IN303000), and [Transfers](#) (IN304000) forms, the system displays the item availability data of the selected line at the bottom of the screen. The way the system shows item availability for the line now depends on the value in the **Cost Layer Type** column on the **Details** tab.

For each of the quantities, the system shows one value (as shown in the screenshot below for the [Receipts](#) form) if the following is true for the line:

- The cost layer type is *Normal*, and a line has a warehouse location that is linked to a project with the *Track by Location* inventory tracking mode specified in the **Inventory Tracking** box on the **Summary** tab of the [Projects](#) (PM301000) form. Each quantity is calculated based on the items received to this location for this project and the items received to this location with a non-project code.
- The cost layer type is *Normal*, and a line is not linked to any project (that is, the line has the non-project code specified). Each quantity is calculated based on the items received to this location with a non-project code.

Receipts
000083

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

Reference Nbr.: 000083 Transfer Nbr.: Total Qty.: 1.00
Status: **Balanced** External Ref.: Total Cost: 1,500.00
Date: 1/16/2023 Description:
Post Period: 01-2023

DETAILS FINANCIAL

Branch	Inventory ID	Warehouse	Location	Quantity	UOM	Unit Cost	Ext. Cost	Reason Code	Cost Layer Type	Project	Project Task
HEADOFFICE	JUICER10C	EQUIPHOUSE	HIMBA...	1.00	PIECE	1,500.0000	1,500.00		Normal	HIMBAKERY2	INSTALL

On Hand 5.00 PIECE, Available 5.00 PIECE, Available for Shipping 5.00 PIECE, Available for Issue 5.00 PIECE

Figure: Availability information that is not project specific

For each of the quantities, the system shows two values (separated by a slash) if the following is true for the line:

- The cost layer type in a line is *Normal* and the project specified in the line has the *Track by Project Quantity* inventory tracking mode specified in the **Inventory Tracking** box on the **Summary** tab of the **Projects** form. The quantities are calculated as follows:
 - The first value shows the available quantity of items in the selected warehouse location related to this particular project and project task.
 - The second value shows the quantity of free stock items and project-specific items stored in this warehouse location.

Receipts
New Record

NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS

Reference Nbr.: <NEW> Transfer Nbr.: Total Qty.: 1.00
Status: **Balanced** External Ref.: Total Cost: 1,500.00
Date: 1/16/2023 Description:
Post Period: 01-2023

DETAILS FINANCIAL

Branch	Inventory ID	Warehouse	Location	Quantity	UOM	Unit Cost	Ext. Cost	Reason Code	Cost Layer Type	Project	Project Task
HEADOFFICE	JUICER10C	EQUIPHOUSE	MAIN	1.00	PIECE	1,500.0000	1,500.00	INRECEIPT	Normal	HOTELCP	10

On Hand 5.00/5.00 PIECE, Available 4.00/5.00 PIECE, Available for Shipping 5.00/5.00 PIECE, Available for Issue 5.00/5.00 PIECE

Figure: Project-specific availability information

- The cost layer type is *Project* and a line is linked to a project that has the *Track by Project Quantity and Cost* inventory tracking mode specified in the **Inventory Tracking** box on the **Summary** tab of the *Projects* form. The quantities are calculated as follows:
 - The first value shows the available quantity of items in the selected cost layer related to this particular project and project task.
 - The second value shows the quantity of free stock items and project-specific items stored in the warehouse location that is specified in the line.

Receipts
New Record

Reference Nbr.: <NEW> Transfer Nbr.: Total Qty.: 1.00
Status: Balanced External Ref.: Total Cost: 1,500.00
Date: 1/16/2023 Description:
Post Period: 01-2023

DETAILS FINANCIAL

Branch	Inventory ID	Warehouse	Location	Quantity	UOM	Unit Cost	Ext. Cost	Reason Code	Cost Layer Type	Project	Project Task
HEADOFFICE	JUICER10C	EQUIPHOUSE	MAIN	1.00	PIECE	1,500.0000	1,500.00	INRECEIPT	Project	HOTEL	10

On Hand 5.00/5.00 PIECE, Available 5.00/4.00 PIECE, Available for Shipping 5.00/5.00 PIECE, Available for Issue 5.00/5.00 PIECE

Figure: Availability information specific for a project with cost layers

Upgrade Notes

The database tables related to the project-specific inventory have been redesigned. For the full list of the changes, and the details about the upgrade procedure see the Release Notes for Developers 2023 R1 document.

Projects and Construction: Improved Lien Waiver Functionality

In Acumatica ERP 2023 R1, the functionality related to compliance tracking has been reworked to simplify the use of lien waivers. Also, support has been added for a number of additional user scenarios related to lien waiver processing. See the following sections of this topic for a detailed description.

UI Changes and Workflow Improvements

On the **Lien Waiver Settings** tab of the [Compliance Preferences](#) (CL301000) form, the following UI changes have been made:

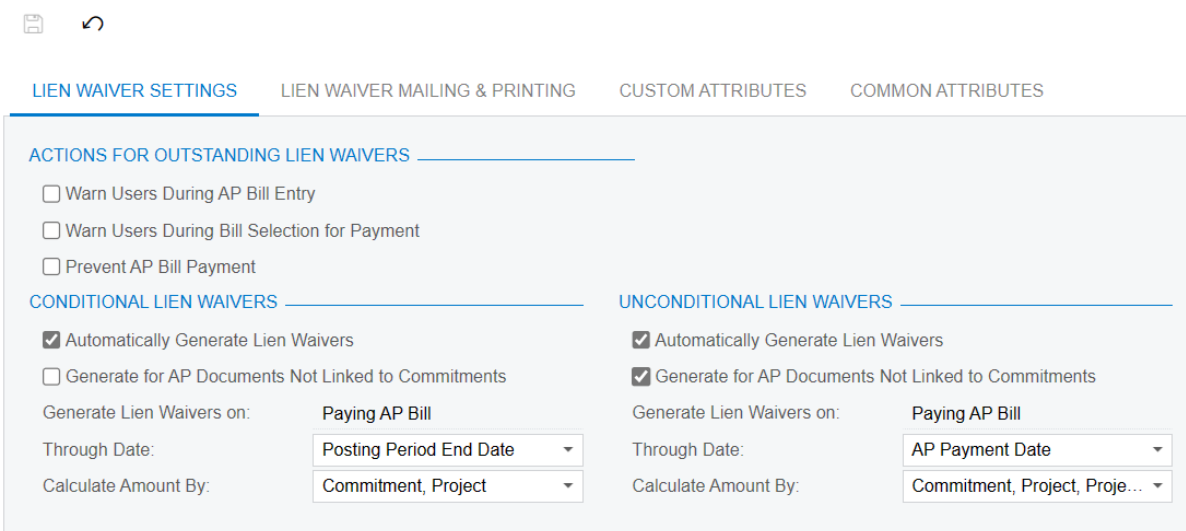
- New **Calculate Amount By** boxes have been added to both the **Conditional Lien Waivers** section and the **Unconditional Lien Waivers** section. These settings specify how the system will aggregate the payment amounts and prepare separate lien waivers for each group of payments. The following options are available in the box:
 - *Commitment, Project, Project Task*
 - *Commitment, Project* (default)
 - *Project, Project Task*
 - *Project*

The option selected in each section defines the level of tracking for auto-generated lien waivers of the conditional or unconditional type. When a lien waiver is generated automatically, the system groups the payment amounts to each lien waiver based on the option selected in the **Calculate Amount By** box of the section.

- New **Generate for AP Documents Not Linked to Commitments** check boxes have been added to both the **Conditional Lien Waivers** section and the **Unconditional Lien Waivers** section. If this check box is selected in a section, the system generates the corresponding type of the lien waivers for the AP documents that have no link to a project-related purchase order or subcontract. The lien waivers are generated based on the option selected in the **Calculate Amount By** box of the section.
- The **Final Lien Waiver Amount** boxes have been removed from both the **Conditional Lien Waivers** section and the **Unconditional Lien Waivers** section.
- The **Outstanding Lien Waivers** section has been renamed to **Actions for Outstanding Lien Waivers**, and its settings have been changed as follows:
 - The **Warn of Outstanding Lien Waivers During AP Bill Entry** check box has been renamed to **Warn Users During AP Bill Entry**.
 - The **Warn of Outstanding Lien Waivers When Selecting AP Bill for Payment** check box has been renamed to **Warn Users During Bill Selection for Payment**.
 - The **Stop Payment of AP Bill When There Are Outstanding Lien Waivers** check box has been renamed to **Prevent AP Bill Payment**.

The following screenshot shows the redesigned **Lien Waiver Settings** tab of the [Compliance Preferences](#) form.

Compliance Preferences



LIEN WAIVER SETTINGS LIEN WAIVER MAILING & PRINTING CUSTOM ATTRIBUTES COMMON ATTRIBUTES

ACTIONS FOR OUTSTANDING LIEN WAIVERS

☐ Warn Users During AP Bill Entry

☐ Warn Users During Bill Selection for Payment

☐ Prevent AP Bill Payment

CONDITIONAL LIEN WAIVERS

☒ Automatically Generate Lien Waivers

☐ Generate for AP Documents Not Linked to Commitments

Generate Lien Waivers on: **Paying AP Bill**

Through Date: **Posting Period End Date**

Calculate Amount By: **Commitment, Project**

UNCONDITIONAL LIEN WAIVERS

☒ Automatically Generate Lien Waivers

☒ Generate for AP Documents Not Linked to Commitments

Generate Lien Waivers on: **Paying AP Bill**

Through Date: **AP Payment Date**

Calculate Amount By: **Commitment, Project, Proje...**

Figure: Lien waiver settings on the Compliance Preferences form

Also, on the [Checks and Payments](#) (AP302000) form, the **Set as Final** button has been added on the table toolbar of the **Compliance** tab. A user clicks this button to mark a lien waiver as a final lien waiver.

For more information about processing lien waivers, see [Lien Waivers: General Information](#).

Lien Waivers for Payments for Multiple Bills

A payment created on the [Checks and Payments](#) (AP302000) or [Prepare Payments](#) (AP503000) form may include multiple bills related to different projects, project tasks, and commitments. The system automatically generates conditional and unconditional lien waivers for these bills based on the option selected in the **Calculate Amount By** box in the corresponding section on the **Lien Waiver Settings** tab of the [Compliance Preferences](#) (CL301000) form.

The created lien waiver or lien waivers are then shown for the payment on the **Compliance** tab of the [Checks and Payments](#) form. A user can review the bills processed during the generation of a particular lien waiver by clicking **Line Details** on the **Compliance** tab of the [Checks and Payments](#) form. In the **Line Details** dialog box, which opens, the system shows the list of bills with their currencies and paid amounts.

Lien Waivers for Joint Payee Bills

On the [Checks and Payments](#) (AP302000) and [Prepare Payments](#) (AP503000) forms, lien waivers for joint payee bills are now supported. For a joint payee bill, the system creates a payment for the main vendor and payments for joint payees. The system automatically generates lien waivers for these payments by using the general rules of lien waiver generation. A user can print each lien waiver generated for a joint payment by using the following report forms:

- [Conditional Progress Lien Waiver](#) (CL642001) (formerly named *Cond Waiver - Progress Pymt*)
- [Conditional Final Lien Waiver](#) (CL642003) (formerly named *Cond Waiver - Final Pymt*)
- [Unconditional Progress Lien Waiver](#) (CL642002) (formerly named *Uncond Waiver - Progress Pymt*)
- [Unconditional Final Lien Waiver](#) (CL642004) (formerly named *Uncond Waiver - Final Pymt*)

Printing of Manual Lien Waivers

The system now supports the printing of lien waivers that are not linked to payments. A user can manually add a lien waiver on the **Compliance** tab of the [Bills and Adjustments](#) (AP301000) form for a bill that has not been paid yet.

Then the user opens this lien waiver by using the appropriate report form (which depends on the type of the lien waiver) and prints the generated report.

Improved Lien Waiver Validation During Mass-Processing of Payments

The process of mass-preparing payments and validating manual and outstanding lien waivers has been reworked.

On the [Prepare Payments](#) (AP503000) form, the system now generates a payment, regardless of the results of the lien waiver validation, if an AP bill has a manual lien waiver or an outstanding lien waiver linked to the corresponding vendor. Also, the system now validates the outstanding lien waivers when a user takes a payment off hold on the [Checks and Payments](#) (AP302000) form. If the validation fails for an outstanding lien waiver, the system creates a payment with the *On Hold* status, regardless of the state of the **Hold Document on Entry** check box on the [Accounts Payable Preferences](#) (AP101000) form.

If the bill has a linked manual lien waiver, the system prepares the payment for it, considering the following conditions:

- If a manual lien waiver has the **Link to Payment** check box selected on the **Compliance** tab of the [Bills and Adjustments](#) (AP301000) form, and the lien waiver amount equals the bill amount of the linked bill, this bill or bill line is excluded from automatic lien waiver generation.
- If a manual lien waiver has the **Link to Payment** check box cleared, this lien waiver is also excluded from automatic lien waiver generation and the manual lien waiver is not created.

Projects and Construction: Migration Mode for Pro Forma Invoices

In previous versions of Acumatica ERP, users were not able to manually create pro forma invoices. As a result, there was no ability to migrate historical data for pro forma invoice from a legacy system. Starting Acumatica ERP 2023 R1, migration mode has been introduced in the project accounting functional area. A user can now turn on migration mode and import pro forma invoices with their balances, original amounts, and dates without affecting the general ledger. Also, the user can link these pro forma invoices to the corresponding AR documents.

Creation of Pro Forma Invoices in Migration Mode

To provide the ability to activate migration mode for pro forma invoices, the **Activate Migration Mode** check box has been added to the **General Settings** section on the **General** tab of the [Projects Preferences](#) (PM101000) form, as shown in the following screenshot.

Projects Preferences

GENERAL MAILING & PRINTING APPROVAL

NUMBERING SEQUENCE

- * Transaction Numbering Sequence: PMTRAN - PM Transaction Numbering
- * Batch Numbering Sequence: BATCH - GL Batch
- * Pro Forma Numbering Sequence: PROFORMA - PM Pro Forma Invoice Numbering
- * Change Order Numbering Sequence: CHANGEORD - PM Change Order Numbering
- * Change Request Numbering Sequence: CHANGERST - PM Change Request Numbering
- * Quote Numbering Sequence: PMQUOTE - Quotes in Project
- * Progress Worksheet Numbering Sequence: PROGRESSWS - Progress Worksheet

GENERAL SETTINGS

- * Non-Project Code: X
- * Empty Item Code: <N/A>
- * Empty Item UOM: EA
- Default Change Order Class: DEFAULT - Default Change Order Class
- Default Quote Template:
- * Billing Cut-off Date: Include Trans. created on billing date
- Validate T&M Revenue Budget Limits: Validate
- Revenue Budget Update: Detailed
- Cost Budget Update: Detailed
- Budget Control: Do Not Control
- ☒ Automatically Post on Release
- ☒ Automatically Release Allocations
- ☒ Internal Cost Commitment Tracking
- ☐ Calculate Project-Specific Taxes
- ☒ **Activate Migration Mode**

VISIBILITY SETTINGS

- ☒ GL ☒ AP ☒ AR ☒ SO ☒ PO
- ☒ IN ☒ CA ☒ CRM
- ☒ Time Entries ☒ Expenses
- Restrict Project Selection: Customer Projects

ACCOUNT SETTINGS

- * Expense Account Source: Labor Item
- * Expense Accrual Account Source: Labor Item Accrual

MARKUPS

Default Price Markup, %: 0.0000

Document Markups

Type	Description	Value
> %		0.00

GL SETTINGS FOR UNBILLED REMAINDERS

Debit Account:

Credit Account:

Figure: The new Activate Migration Mode check box

With migration mode activated, a user can manually enter pro forma invoices on the [Pro Forma Invoices](#) (PM307000) form. On the form toolbar, the **Add New Record** button becomes available (as shown in the following screenshot) if the **Activate Migration Mode** check box is selected on the [Projects Preferences](#) (PM101000) form.

Pro Forma Invoices
000018 - A training for employees

← ↻ ↺ + ↻ ↺ REMOVE HOLD PRINT AIA REPORT ...

Reference Nbr.: 000018	Project: HMBAKERY3 - A training for employees	Progress Billing Total: 200.00
Status: On Hold	Customer: HMBAKERY - HM's Bakery & Cafe	Time and Material Total: 0.00
* Invoice Date: 1/13/2023	* Location: MAIN - Primary Location	Tax Total: 0.00
* Post Period: 01-2023	Currency Rate for: USD	Invoice Total: 200.00
Customer Ord.:		Retainage Total: 0.00
Application Nbr.:		Amount Due: 200.00
Description: Imported pro forma invoice		

PROGRESS BILLING TIME AND MATERIAL TAXES FINANCIAL APPROVALS ADDRESSES

LOAD LINES

Branch	Account Group	Project Task	Inventory ID	Description	Revised Budgeted Quantity	Revised Budgeted Amount	Actual Quantity	Previously Invoiced Quantity	Previously Invoiced Amount	Total Completed (%)	Quantity to UOM Invoice	Unit Price	Amount	Stored Material	Amount to Invoice
SWEETEQIP	REVENUE	TRAINING	N/A	A training for employees	20.00	1,000.00				0.00	20.00	0.00	200.00	0.00	200.00

Figure: Manual creation of a pro forma invoice

On the **Progress Billing** tab of the *Pro Forma Invoices* form, the **Load Lines** button has been added. By clicking the button, the user can load progress billing lines from the project budget (that is, all the revenue budget lines with the project tasks that are assigned the progress billing rule).

To indicate that a pro forma invoice has been migrated, the system selects the **Migrated** check box on the **Financial** tab of the *Pro Forma Invoices* (PM307000) form (as shown in the following screenshot).

Pro Forma Invoices
000018 - A training for employees

← ↻ ↺ + ↻ ↺ REMOVE HOLD PRINT AIA REPORT ...

Reference Nbr.: 000018	Project: HMBAKERY3 - A training for employees	Progress Billing Total: 200.00
Status: On Hold	Customer: HMBAKERY - HM's Bakery & Cafe	Time and Material Total: 0.00
* Invoice Date: 1/13/2023	* Location: MAIN - Primary Location	Tax Total: 0.00
* Post Period: 01-2023	Currency Rate for: USD	Invoice Total: 200.00
Customer Ord.:		Retainage Total: 0.00
Application Nbr.:		Amount Due: 200.00
Description: Imported pro forma invoice		

PROGRESS BILLING TIME AND MATERIAL TAXES **FINANCIAL** APPROVALS ADDRESSES

INVOICE SETTINGS

AR Doc. Type:

AR Ref. Nbr.:

* Branch: HEADOFFICE - SweetLife Head Office

Customer Tax Zone: NYSTATE - NY State Tax

Terms:

Due Date:

Cash Discount Date:

OTHER INFO

☒ Migrated

PREVIOUS REVISIONS

Revisor	Invoice Total	Retainage Total	Tax Total	AR Doc. Type	AR Ref. Nbr.

Figure: Selection of the Migrated check box for the pro forma invoice

The user must link the created pro forma invoice with the corresponding AR document created on the *Invoices and Memos* (AR301000) form. To do this, the user selects the type of the financial document to be linked in the **AR Doc Type** box and the reference number of the document in the **AR Ref. Nbr.** box, as shown in the following screenshot.

Pro Forma Invoices

000018 - A training for employees

Reference Nbr.: 000018 Project: HMBAKERY3 - A training for employees Progress Billing Total: 200.00

Status: On Hold Customer: HMBAKERY - HM's Bakery & Cafe Time and Material Total: 0.00

* Invoice Date: 1/13/2023 * Location: MAIN - Primary Location Tax Total: 0.00

* Post Period: 01-2023 Currency Rate for ... USD Invoice Total: 200.00

Customer Ord... Retainage Total: 0.00

Application Nbr... Amount Due: 200.00

Description: Imported pro forma invoice

PROGRESS BILLING TIME AND MATERIAL TAXES **FINANCIAL** APPROVALS ADDRESSES

INVOICE SETTINGS

AR Doc. Type: Invoice

AR Ref. Nbr.: 000114

* Branch: HEADOFFICE - SweetLife Head Office

Customer Tax Zone: NYSTATE - NY State Tax

Terms:

Due Date:

Cash Discount Date:

OTHER INFO

☒ Migrated

PREVIOUS REVISIONS

Revision	Invoice Total	Retainage Total	Tax Total	AR Doc. Type	AR Ref. Nbr.

Figure: AR invoice manually linked to the pro forma invoice

After the pro forma invoice is released, on the **Invoices** tab of the **Projects** (PM301000) form, the system shows a line with the pro forma invoice and the corresponding AR document (if one was specified) for the corresponding project, as shown in the following screenshot.

Project ID: HMBAKERY3 - A training for employees Status: Active Actual Income: 0.00

Customer: HMBAKERY - HM's Bakery & Cafe Actual Expenses: 0.00

Template: A training for employees Margin: 0.00 % 0.00

Summary Tasks Revenue Budget Cost Budget Balances Commitments **Invoices** Change Orders Change Requests Union Locals Activities Employees Equipment

AIA REPORT RELEASE RETAINAGE

Pro Forma Date	Pro Forma Reference Nbr.	Application Nbr.	Description	Status	Invoice Total	Currency	AR Doc. Type	AR Reference Nbr.	AR Doc. Date	AR Doc. Description	AR Doc. Orig. Amount
1/13/2023	000018		Imported pro forma invoice	Closed	200.00	USD	Invoice	000114	1/13/2023	AR invoice for imported pro forma invoice	200.00

Figure: The migrated document on the Projects form

Also, the user can now manually create a project transaction on the **Project Transactions** (PM304000) form and manually link it with the corresponding AR document. To do this, the user specifies the type of the AR document in the **Orig. Doc. Type** box in the Summary area of the form and the reference number of the document in the **Orig. Doc. Nbr.** box (see the following screenshot).

Project Transactions

AR PM00000139 - Imported project transaction

Module: AR Orig. Doc. Type: Invoice Total Quantity: 0.00

Ref Number: PM00000139 Orig. Doc. Nbr.: 000114 Total Billable Quantity: 0.00

Status: Balanced Total Amount: 200.00

Description: Imported project transaction

DETAILS

Branch	Project	Project Task	Cost Code	Account Group	Employee	Customer/Need	Location	Inventory ID	Shift Code	Description	UOM	Quantity	Billable	Billable Quantity	Unit Rate	Amount	Credit Account
SWEETEQUP	HMBAKERY3	TRAINING	00-000	REVENUE						Imported		0.00	0.00	0.00	0.0000	200.00	40000

Figure: Migrated project transaction with a link to AR document

Predefined Import Scenarios

New predefined import scenarios have been implemented to simplify the migration of financial data from third-party software to Acumatica ERP. The following import scenarios are now available on the [Import Scenarios](#) (SM206025) and [Import by Scenario](#) (SM206036) forms:

- *ACU Import Proforma* for importing pro forma invoices to the [Pro Forma Invoices](#) (PM307000) form
- *ACU Import Project Income* for importing revenue project transactions to the [Project Transactions](#) (PM304000) form

By using these scenarios, the user now can perform import of initial pro forma balances for projects from the legacy systems. Both scenarios should be used in migration mode.

For each of the predefined import scenarios, a data template is provided. The user performing the import can download the template, populate it with the data to be migrated to Acumatica ERP, and then use the prepared file on the [Import by Scenario](#) form with the corresponding import scenario.

For more information, see [Predefined Import Scenarios for Migrating Financial Data](#).

Projects and Construction: Mobile App Enhancements

Previously, in the Acumatica mobile app, a user could not work with the progress worksheets that are available in Acumatica ERP Construction Edition. In Acumatica ERP 2023 R1, the new *Progress Worksheet* mobile screen has been introduced in the Acumatica mobile app.

In the Acumatica mobile app connected to an instance of Acumatica ERP 2023 R1, the user can now view, create, and update progress worksheets by using this screen. Also, the user can now view progress worksheets related to daily field reports from the *Daily Field Reports* mobile screen.

Progress Worksheets in the Mobile App

The **Progress Worksheets** menu item is now available in the **Projects** workspace, as shown in the following screenshot.

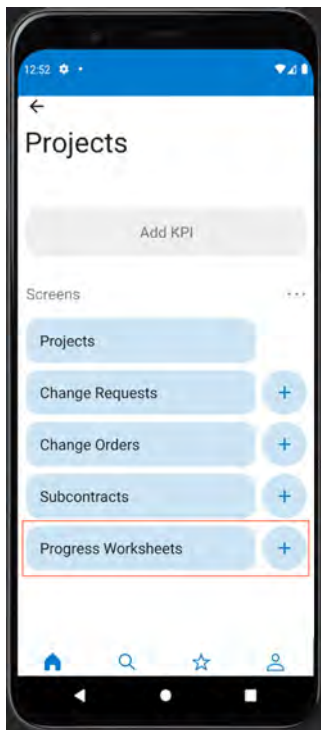


Figure: Progress Worksheets menu item in the mobile app

When a user opens the **Project Management** workspace and taps **Progress Worksheets**, the system opens the *Progress Worksheets* screen, which lists the existing progress worksheets (see the screenshot below). For each progress worksheet, the system shows the following information:

- The progress worksheet ID
- The date
- The description
- The status

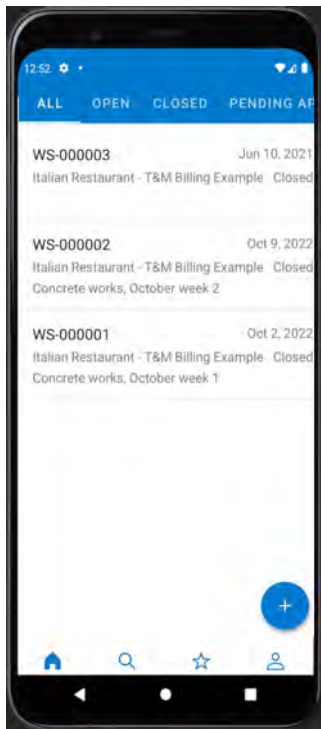


Figure: The list of progress worksheets

On the *Progress Worksheets* screen, the user can tap a record tile to open a progress worksheet and view its settings (see the following screenshot), or create a new progress worksheet by tapping the Add button in the bottom of the screen.

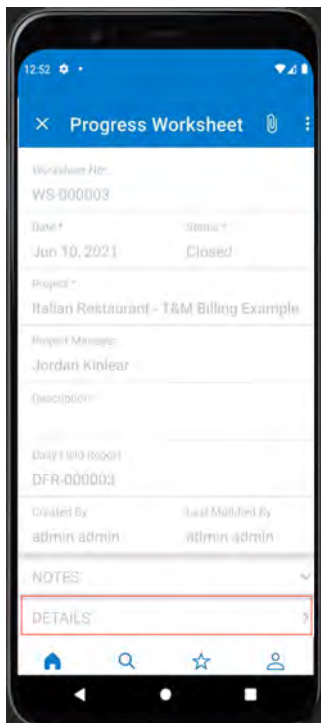


Figure: Progress worksheet summary information

While viewing a progress worksheet, the user can tap **Details** to review the list of lines of this progress worksheet (see the following screenshot). Also, the user can tap a particular line to view complete information about this line.

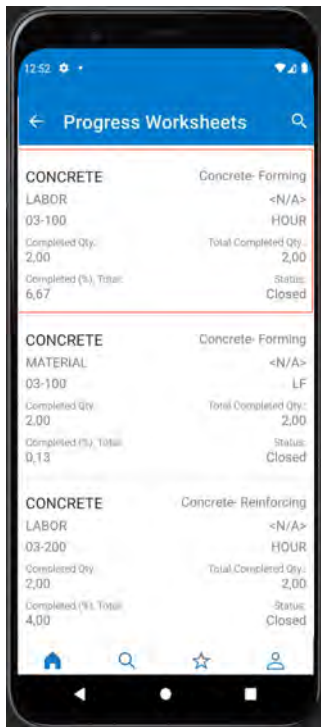


Figure: Lines of a progress worksheet

The user can tap the following to view additional information for the progress worksheet:

- **Notes:** To view the list of notes linked to the progress worksheet.
- **Approvals:** To view the list of approvals related to the progress worksheet.

If approvals are configured for progress worksheets, the user can also approve or reject progress worksheets in the mobile app.

Progress Worksheets Linked to Daily Field Reports

While a user is viewing a daily field report on the *Daily Field Reports* screen (see the following screenshot), the user can tap **Progress Worksheets** to open the list of progress worksheets linked to the daily field report.

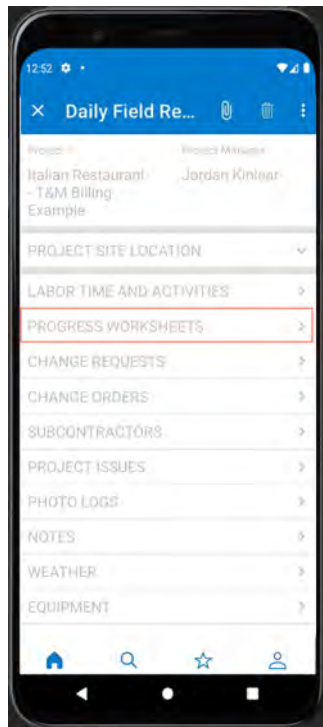


Figure: Review of progress worksheets linked to a daily field report

Projects and Construction: Enhanced Joint Payment Functionality

In previous versions of Acumatica ERP, when preparing payments for joint payee bills, users had to manually specify all amounts to be paid to the main vendor and joint payees. Also, the users were not able to pay joint payments from the retainage amount.

Starting Acumatica ERP 2023 R1, the joint payment process has been revised and enhanced. The system now automatically specifies the maximum available balances for the payment lines at the moment of payment as the amounts to be paid for the main vendor and joint payees. Multiple changes have been made to the user interface to streamline the process of preparing joint payments to vendors. Also, the workflow of mass-processing joint payments has been improved.

User Interface Changes

The following user interface changes have been introduced:

- In the Summary area, on the [Checks and Payments](#) (AP302000) form, the **Joint Payee Name** box has been added.
- On the **Documents to Apply** tab on the [Checks and Payments](#) (AP302000) form, the **Add Joint Payee** button has been added.
- In the **Documents to Pay** table on the [Prepare Payments](#) (AP503000) form, the **Joint Payee Name**, **Joint Amount Owed**, and **Joint Balance** columns have been added.
- The **Indicate Amounts to Pay** dialog box, which previously appeared when a user clicked the **Pay** button on the [Bills and Adjustments](#) (AP301000) form, has been removed.
- On the [Checks and Payments](#) form, the **Joint Payees** tab, the **Reload Joint Payees** button, the **Joint Check** check box, the **Vendor Payment Amount** box, and the **Joint Payment Amount** box have been removed.
- On the [Prepare Payments](#) form, the **Add Joint Amounts** button had been removed.

Simplified Joint Payment Workflow

When a user opens a joint payee bill on the [Bills and Adjustments](#) (AP301000) form and clicks **Pay** on the form toolbar, the system splits the bill into multiple lines, with separate lines for joint payments and for the payments to be made to the main vendor. The lines to be paid are then shown on the [Prepare Payments](#) (AP503000) form.



Alternatively, the user can create a payment directly from the [Prepare Payments](#) form. To do this, the user specifies the selection criteria in the Selection area of the form to view the bill lines to be paid to the main vendor and to joint payees.

On the **Documents to Pay** tab of the [Prepare Payments](#) form, the joint payee bill is now shown as a set of lines for payment, with a separate line for each joint payee (shown in the following screenshot) and for the main vendor.

Prepare Payments

CUSTOMIZATION TOOLS

PROCESS PROCESS ALL

Branch: HEADOFFICE - SweetLife Head Office
 Payment Meth: CHECK
 Cash Account: 10200WH - Wholesale Checking
 Payment Date: 10/28/2022
 Post Period: 10-2022

Vendor Class:
 Vendor: ACMEDO - Acme Doors & Gl
 Project:

GL Balance: 885,021.28
 Available Bala: 818,000.63
 Selection Total: 0.00
 Number of Ro: 0

Pay Date Within: 7 Days
 Due Date Within: 7 Days
 Cash Discount Expires Within: 7 Days
 Always Take Cash Discount

DOCUMENTS TO PAY EXCEPTIONS

Document Type	Reference Nbr.	Line Nbr.	Vendor ID	Project	Project Task	Cost Code	Inventory ID	Amount Paid	Joint Payee	Joint Payee Name	Joint Amount Owed	Joint Balance	Balance	Pay Separately
BIII	000162	1	ACMEDO	HOTEL	02	02-000	WDISMANT	4,000.00	<input checked="" type="checkbox"/>	Acme Doors & Glass	0.00	0.00	0.00	<input type="checkbox"/>
BIII	000162	2	ACMEDO	HOTEL	02	02-000	WDISPOS	350.00	<input checked="" type="checkbox"/>	Acme Doors & Glass	0.00	0.00	450.00	<input type="checkbox"/>
BIII	000162	2	ACMEDO	HOTEL	02	02-000	WDISPOS	450.00	<input checked="" type="checkbox"/>	Conwaste	450.00	450.00	350.00	<input type="checkbox"/>
BIII	000162	3	ACMEDO	HOTEL	02	02-000	WCLEAN	190.00	<input checked="" type="checkbox"/>	Acme Doors & Glass	0.00	0.00	210.00	<input type="checkbox"/>
BIII	000162	3	ACMEDO	HOTEL	02	02-000	WCLEAN	210.00	<input checked="" type="checkbox"/>	Standard Hardwar...	210.00	210.00	190.00	<input type="checkbox"/>

Figure: Joint payee lines of a bill

For each line, the system automatically specifies the value in the **Amount Paid** column, which is the maximum available balance of the line at the moment of payment (see the following screenshot). The system distributes the maximum available payment amount among all joint payee lines; the remaining payment amount is then distributed among the main vendor lines. If needed, a user can adjust the amounts to be paid both for main vendor lines and for joint payee lines.

Prepare Payments

CUSTOMIZATION TOOLS

PROCESS PROCESS ALL

Branch: HEADOFFICE - SweetLife Head Office
 Payment Meth: CHECK
 Cash Account: 10200WH - Wholesale Checking
 Payment Date: 10/28/2022
 Post Period: 10-2022

Vendor Class:
 Vendor: ACMEDO - Acme Doors & Gl
 Project:

GL Balance: 885,021.28
 Available Bala: 818,000.63
 Selection Total: 0.00
 Number of Ro: 0

Pay Date Within: 7 Days
 Due Date Within: 7 Days
 Cash Discount Expires Within: 7 Days
 Always Take Cash Discount

DOCUMENTS TO PAY EXCEPTIONS

Document Type	Reference Nbr.	Line Nbr.	Vendor ID	Project	Project Task	Cost Code	Inventory ID	Amount Paid	Joint Payee	Joint Payee Name	Joint Amount Owed	Joint Balance	Balance	Pay Separately
BIII	000162	1	ACMEDO	HOTEL	02	02-000	WDISMANT	4,000.00	<input checked="" type="checkbox"/>	Acme Doors & Glass	0.00	0.00	0.00	<input type="checkbox"/>
BIII	000162	2	ACMEDO	HOTEL	02	02-000	WDISPOS	350.00	<input checked="" type="checkbox"/>	Acme Doors & Glass	0.00	0.00	450.00	<input type="checkbox"/>
BIII	000162	2	ACMEDO	HOTEL	02	02-000	WDISPOS	450.00	<input checked="" type="checkbox"/>	Conwaste	450.00	450.00	350.00	<input type="checkbox"/>
BIII	000162	3	ACMEDO	HOTEL	02	02-000	WCLEAN	190.00	<input checked="" type="checkbox"/>	Acme Doors & Glass	0.00	0.00	210.00	<input type="checkbox"/>
BIII	000162	3	ACMEDO	HOTEL	02	02-000	WCLEAN	210.00	<input checked="" type="checkbox"/>	Standard Hardwar...	210.00	210.00	190.00	<input type="checkbox"/>

Figure: Automatically specified payment amount

After the user selects the lines to be paid and clicks the **Process** button on the form toolbar (or **Process All** if all lines should be paid), the system creates joint payments and shows them on the [Process Payments / Print Checks](#) (AP505000) form if the checks require printing. After the prepared payments are printed, the user releases these payments on the [Release Payments](#) (AP505200) form.

On the [Checks and Payments](#) (AP302000) form, the user can review the prepared payments. For the payment to the main vendor, the **Joint Payee Name** box in the Summary area is empty. For a joint payment, the name of the joint payee is displayed in this box. (See the following screenshots.)

The screenshot displays the 'Select Joint Payee' dialog box within the Acumatica ERP system. The dialog is overlaid on the 'Payment 000033 - Acme Doors & Glass' form. The dialog lists three joint payee lines for bill 000162. Line 2, 'Conwaste', is selected and highlighted with a red border. The background form shows various fields like Type, Reference Nbr, Status, Application Date, and Payment Method.

Reference Nbr.	Bill Line Nbr.	Joint Payee Name	Joint Amount Owed	Joint Amount Paid	Joint Balance
000162	1		0.00	0.00	0.00
000162	2	Conwaste	450.00	190.00	260.00
000162	3	Standard Hardware Company	210.00	120.00	90.00

Figure: Manual creation of the joint payment

Joint Payees Paid from a Retainage Amount

Now it is also possible to pay to joint payments from a retainage amount. The system validates the values in the **Joint Amount Owed** column on the [Bills and Adjustments](#) (AP301000) form and checks whether the **Joint Amount Owed** of each joint payee line is less than or equal to the sum of the original bill balance and the retainage amount for this line.



Unreleased payments, previous joint payments, and the cash discount reduce the amount available for payment.

Upgrade Notes

During an upgrade to Acumatica ERP 2023 R1, the system will create a new line in the `JointPayee` database table for a main vendor of each existing AP bill that has the **Joint Payees** check box selected in the Summary area of the [Bills and Adjustments](#) (AP301000) form. The following values are specified in this line:

- $\text{CuryJointAmountOwed} = \text{Cury OriginalBillAmount} - \text{Sum}(\text{Cury Joint Amount Owed})$
- $\text{JointAmountOwed} = \text{OriginalBillAmount} - \text{sum}(\text{Joint Amount Owed})$
- $\text{CuryJointAmountOwed} = \text{Cury OriginalBillAmount} - \text{Cury BillBalance} - \text{Sum}(\text{CuryJointAmountPaid})$
- $\text{JointAmountPaid} = \text{OriginalBillAmount} - \text{BillBalance} - \text{Sum}(\text{JointAmountPaid})$
- $\text{CuryJointBalance} = \text{CuryJointAmountOwed} - \text{CuryJointAmountOwed}$
- $\text{JointBalance} = \text{JointAmountOwed} - \text{JointAmountOwed}$

Projects and Construction: New Productivity Report for Progress Worksheets

In the construction industry, project managers and site foremen often need to review the progress of a project up to a particular date. Acumatica ERP Construction Edition 2023 R1 introduces the ability to prepare a progress report that is based on the released progress worksheets for a project.

The New Project Progress Report

If the *Construction* feature is enabled on the [Enable/Disable Features](#) (CS100000) form, the new [Project Progress Report](#) (PM657000) is now available in the system. This report collects information for a specified project for the progress worksheets that have the *Closed* status and that were prepared for this project during the period the user specifies.

On the [Project Progress Report](#) report form, the user can specify the following report parameters:

- **Project** (required): The project for which the user needs to analyze the current progress.
- **Start Date**: The date starting from which the system will collect information from the progress worksheets for the specified project. If this box is empty, the system will collect information from all the progress worksheets for the specified project starting from the earliest progress worksheet document.
- **End Date**: The end date of the date range for which the system will collect information from the progress worksheets for the specified project. By default, the current business date is specified.

The following screenshot shows the ready-to-print report.

Project Progress Report

Company

Project

Project Manager

Revision Two Products

CSTRREST-Italian Restaurant - T&M Billing Example

Jordan Kinlear

Start Date

End Date

Last Progress Date

10/2/2022

10/31/2022

10/9/2022

Project Address

240 California Street

San Francisco CA 94111

United States of America

Page

Date

User

1 of 1

10/31/2022 6:18 AM

Jordan Kinlear

Project Task	Cost Code	Account Group	Description	UOM	Total Budgeted Qty.	Current Period Completed Qty.	Total Completed Qty.	Total Remaining Qty.	Current Period Completed %	Total Completed %
03	03-100	LABOR	Concrete- Forming	HOUR	30.00	22.00	22.00	8.00	73.33 %	73.33 %
		MATERIAL	Concrete- Forming	LF	1,500.00	800.00	800.00	700.00	53.33 %	53.33 %
	03-200	LABOR	Concrete- Reinforcing	HOUR	50.00	19.00	19.00	31.00	38.00 %	38.00 %
	03-300	LABOR	Concrete- CIP Slabs	HOUR	40.00	29.00	29.00	11.00	72.50 %	72.50 %
Project Progress									59.29 %	59.29 %

Figure: The ready-to-print Project Progress Report

The user can also prepare a project progress report based on a particular progress worksheet. To do this, the user opens the progress worksheet on the [Progress Worksheets](#) (PM303000) form and clicks **Print Project Progress Report** on the More menu. The generated report shows the current progress for the selected project up to the date that is specified in the selected progress worksheet.

The report adds up the progress worksheet data for each cost budget line and shows the progress information for the project in the following columns:

- **Total Budgeted Qty.:** The **Revised Budgeted Quantity** that is specified in the corresponding cost budget line of the project on the **Cost Budget** tab of the [Projects](#) (PM301000) form.
- **Current Period Completed Qty.:** The total quantity of items for the cost budget line that were used (or installed) during the current financial period.
- **Total Completed Qty.:** The total quantity of items for the cost budget line that were used (or installed) within the date range specified in the report parameters.
- **Total Remaining Qty.:** The remaining value available for the cost budget line, which is calculated as the **Total Budgeted Qty.** minus the **Total Completed Qty.**

- **Current Period Completed %:** The project completion progress for the current financial period.
- **Total Completed %:** The project completion progress for the period specified in the report.

For more information about tracking project progress by units with progress worksheets, see [Unit Tracking in Projects: General Information](#).

Enhancements in Daily Field Reports

If the *Construction Project Management* feature is enabled on the [Enable/Disable Features](#) (CS100000) form, the new **Progress Worksheets** section is now available as a part of the printable version of the daily field report, which is prepared on the [Daily Field Report Form](#) (PJ644000). (See the following screenshot.) The section shows the progress worksheet lines related to the daily field report, which are the lines on the **Progress Worksheets** tab of the [Daily Field Report](#) (PJ304000) form.

DAILY FIELD REPORT										Company	Revision Two Products	Page 1 of 2
Project	Italian Restaurant - T&M Billing Example				Project ID	CSTRREST		Project Address	2510 Market Street, SF			
Date of DFR	6/10/2021				DFR ID	DFR-000003			User	admin admin		
Day	Thursday				Status	Completed			Date	1/12/2023 4:34 AM		
Project Manager	KINLEARJORD-Jordan Kinlear				Created By	admin-admin admin						
WEATHER												
Time Observed	Cloudiness	Sky	Temperature	Temperature	Humidity	Rain/Snow	Precipitation	Wind	Wind	Site	Delay	Description
3:24 PM	95	Overcast	60.00	Cool	(%)	0.00	None	(mph)	Calm	Dry	No	Overcast, cool day
LABOR TIME & ACTIVITIES												
Employee	Earning Type	Project Task	Cost Code	Time	Time Spent	Billable Time	Description	Last Modified By	Last Modification Date			
EP00000006-Todd Bloom	RG	01	01-313	9:00 AM	03:00	00:00	GENERAL	admin-admin admin	8/10/2020 8:22 AM			
PROGRESS WORKSHEETS												
Worksheet Nbr.	Project Task ID	Cost Code	Account Group	Description	UOM	Completed Qty.	Total Completed Qty.	Total Budgeted Qty.				
WS-000003	03	03-100	LABOR	Concrete- Forming	HOUR	2.00	2.00	30.00				
WS-000003	03	03-100	MATERIAL	Concrete- Forming	LF	2.00	2.00	1,500.00				
WS-000003	03	03-200	LABOR	Concrete- Reinforcing	HOUR	2.00	2.00	50.00				
WS-000003	03	03-300	LABOR	Concrete- CIP Slabs	HOUR	2.00	2.00	40.00				
CHANGE REQUESTS												
Reference Nbr.	Change Date	Ext.Ref.Nbr	Description	Status	Cost Total	Line Total	Markup Total	Price Total	Last Modified By	Last Modification Date		
000004	6/5/2021		Lobby logo tile needs to	On Hold	2,460.00	3,714.60	0.00	3,714.60	admin-admin admin	8/9/2020 5:22 PM		
SUBCONTRACTORS												
Vendor	Vendor Name	Project Task	Cost Code	Number of Workers	Arrived	Departed	Working Hours	Working Hours	Description	Last Modified By	Last Modification Date	
KKDESIGN	Karena Kelli	09	09-912	2	9:00 AM	4:00 PM	07:00	14:00	FINISHES	admin-admin admin	8/10/2020 8:23 AM	
PROJECT ISSUES												
Project Issue ID	Summary	Status	Priority	Project Task	Project Issue Type	Last Modified By	Last Modification Date					
IS-000013	Lobby floor tile logo wrong design	Open	High		Architectural	admin-admin admin	8/9/2020 3:24 PM					
PHOTO LOGS												
Photo Log ID	Status	Date	Project Task	Description	Created By	Last Modified By	Last Modification Date					
PL-000002	N/A	3/17/2021		Site Photo	admin-admin admin	admin-admin admin	8/10/2020 7:21 AM					

Figure: Progress worksheet information in the printed daily field report

Projects and Construction: Improved Design for Project and Construction Reports and Inquiries

In Acumatica ERP 2023 R1, multiple reports related to project accounting and construction have been redesigned to improve their readability and provide a unified design. After careful analysis, the reports have been extended to present new data that is significant in different business scenarios. Also, additional report parameters have been introduced in the reports to give users the ability to filter the report's results on the fly.

Similarly, multiple inquiries related to project accounting and construction have been analyzed and redesigned.

List of Updated Reports and Inquiries

The following reports have been improved:

- [Project Balance](#) (PM621000)
- [Project Profitability](#) (PM624000)
- [Project Profit Analysis](#) (PM656000)
- [Project Performance](#) (PM654000)
- [Project Cost Budget Status](#) (PM655000)
- [Projects](#) (PM631000)
- [Project Tasks](#) (PM632000)
- [Employee Hours](#) (PM622000)
- [Projects Pending Billing](#) (PM706300), formerly named *Project Billing*
- [Project Transactions](#) (PM633000), formerly named *Project Transaction Register*
- [Project Cost History](#) (PM706230), formerly named *Project Cost Transaction History*
- [Project Budget Forecast by Month](#) (PJ629600)
- [Subcontract Summary](#) (SC610500)
- [Subcontract Details](#) (SC611000), formerly named *Subcontract Details by Vendor*
- [Subcontract Audit](#) (SC644000)
- [Subcontract Payment](#) (SC647000)
- [Project WIP](#) (PM651500), formerly named *Project WIP With Date Range*
- [Project WIP Detail](#) (PM652500), formerly named *Project WIP Detail With Date Range*



After the upgrade to Acumatica ERP 2023 R1, an administrator should run the recalculation of project balances on the [Recalculate Project Balances](#) (PM504000) form to update the project actual values that are shown in the project WIP reports.

- [Construction Bonding Report](#) (PM650500)

The following inquiries have been improved:

- [Project Transaction Details](#) (PM401000)
- [Commitments](#) (PM306000)
- [Potential Project Budget Overruns](#) (PM404000), formerly named *Project Budget Overruns*
- [Project Summary](#) (PMGI0025)
- [Pro Forma Invoice Correction History](#) (PMGI0030)
- [Budget Details](#) (PMGI0010)
- [Budget Summary by Account Group](#) (PMPV0010)

The following reports and inquiries have been deprecated:

- *Employee Hours by Project and Task* (PM623000)
- *Subcontract Audit Detail* (SC646000)
- *Project WIP* (PM651000)
- *Project WIP Detail* (PM652000)



Customers who are currently using customized versions of the listed reports will not be affected by the upgrade to 2023 R1. To make it possible for users to review and use the updated version of a report, a system administrator has to activate the default version of the report on the **Report Versions** tab of the corresponding report form.

- *Project Transaction Inquiry* (PMGI0035)



Customers who are currently using customized versions of the inquiry will not be affected by the upgrade to 2023 R1. If a customer has modified this inquiry, it will be kept during the Acumatica ERP upgrade and will be available after the upgrade.

For a detailed list of the changes to each report or inquiry, see the following sections of this topic.

Project Balance (PM621000) Report

The following changes have been made to this report:

- On the **Report Parameters** tab of the report form, the **Report Format** box has been added as a required parameter. A user can now select which report format the system uses when generating the report: *Detailed* (default) or *Summary*.
- The **Include Potential CO to the Revised Bucket** check box has been renamed to **Include Potential CO Values in Revised Values**.
- In the generated report, the order of the report grouping sections has been changed. Now the sections are shown in the following order: **Income**, **Expense**, **Margin**, **Asset**, and **Liability**.
- The layout has been unified, and a number of design enhancements have been made.

Project Profitability (PM624000) Report

The following changes have been made to this report:

- On the **Report Parameters** tab of the report form, the new **Project** box has been added. In this box, the user can select a project with only the *Active* or *Completed* status.
- On the **Report Parameters** tab, the new **Customer** box has been added.
- In the generated report, the **Project Manager** column now shows employee names instead of employee IDs.
- In the generated report, the **Customer** column now shows customer names instead of customer IDs.
- In the generated report, the **Profit Margin %** column has been added. The column shows the project margin percentage, which is calculated as project margin divided by the project income.
- The layout has been unified, and a number of design enhancements have been made.

Project Profit Analysis (PM656000) Report

The following changes have been made to this report:

- On the **Report Parameters** tab of the report form, the new **Project Manager** box has been added.
- On the **Report Parameters** tab, the new **Customer** box has been added.
- On the **Report Parameters** tab, the new **Show Active Projects Only** check box has been added.

- In the generated report, the **Estimate** column has been renamed to **Costs**.
- In the generated report, the **Estimated Changes** label has been renamed to **CO Estimate**.
- In the generated report, the following data has been added:
 - **Billed to Date**: This amount is calculated as the sum of amounts values in the **Actual Amount** column of the **Revenue Budget** tab of the *Projects* (PM301000) form.
 - **Actual Cost**: This value is calculated as the sum of the values in the **Actual Amount** column of the **Cost Budget** tab of the *Projects* (PM301000) form.
 - **Current Profit**: This value is calculated as **Billed to Date** minus **Actual Cost**.
 - **Current Markup**: This value is calculated as **Current Profit** divided by **Actual Cost**.
 - **CO Profit**: This value is calculated as **Change Orders** minus **CO Estimate**.
 - **CO Markup**: This value is calculated as **CO Profit** divided by **CO Estimate**.
 - **Contract Billed %**: This value is calculated as **Billed to Date** divided by **Revised Contract**.
 - **Estimate Used %**: This value is calculated as **Actual Amount** divided by **Revised Estimate**.
- The layout has been unified, and a number of design enhancements have been made.

Project Performance (PM654000) Report

The following changes have been made to this report:

- On the **Report Parameters** tab of the report form, the new **Project Manager** box has been added.
- On the **Report Parameters** tab, the new **Customer** box has been added.
- On the **Report Parameters** tab, the new **Show Active Projects Only** check box has been added.
- In the generated report, the **Column Markup** column has been renamed to **Performance**.
- In the generated report, the **Project Costs** label has been renamed to **Actual Costs**.
- The layout has been unified, and a number of design enhancements have been made.

Project Cost Budget Status (PM655000) Report

The following changes have been made to this report:

- On the **Report Parameters** tab of the report form, the new **Project Manager** box has been added.
- On the **Report Parameters** tab, the new **Customer** box has been added.
- On the **Report Parameters** tab, the new **Show Active Projects Only** check box has been added.
- In the generated report, the **Committed Amount** column has been renamed to **Revised Committed Amount**.
- In the generated report, the **Project Costs** label has been renamed to **Actual Costs**.
- In the generated report, the order of the **Revised Committed Amount** and **Committed Open Amount** columns has been changed.
- The layout has been unified, and a number of design enhancements have been made.

Projects (PM631000) Report

The following changes have been made to this report:

- On the **Report Parameters** tab of the report form, the new **Project** box has been added.
- On the **Report Parameters** tab, the new **Show Active Projects Only** check box has been added.
- On the **Report Parameters** tab of the report form, the **Customer ID** box has been renamed to **Customer**.
- In the generated report, the **Project Manager** and **End Date** columns have been added.

- The layout has been unified, and a number of design enhancements have been made.

Project Tasks (PM632000) Report

The following changes have been made to this report:

- On the **Report Parameters** tab of the report form, the new **Project** box has been added.
- On the **Report Parameters** tab, the new **Project Manager** box has been added.
- On the **Report Parameters** tab, the new **Show Active Projects Only** check box has been added.
- On the **Report Parameters** tab of the report form, the **Customer ID** box has been renamed to **Customer**.
- In the generated report, the new **End Date** column has been added.
- The layout has been unified, and a number of design enhancements have been made.

Employee Hours (PM622000) Report

The following changes have been made to the report:

- On the **Report Parameters** tab, the new **Group Results** box has been added as a required parameter. In this box, the user can select the way the report's results should be grouped. The user selects *By Project* to view the hours that employees have spent on each project, or *By Employee* to view the hours that employees have spent on different project tasks at the employee level of detail.
- On the **Report Parameters** tab of the report form, the new **Employee** box has been added.
- In the generated report, the new **Earning Type** column has been added.
- In the generated report, the asterisk symbol (*) is now used to indicate the values that include unreleased time activities.
- The layout has been unified, and a number of design enhancements have been made.

Employee Hours by Project and Task (PM623000) Report

The report has been deprecated. To view the information in this report, a user now runs the [Employee Hours](#) (PM622000) report with the **Group Results** parameter set to *By Employee*.

Projects Pending Billing (PM706300) Report

The report has been renamed from *Project Billing* to *Projects Pending Billing*. The following changes have been made to the report:

- On the **Report Parameters** tab of the report form, the new **Show Active Projects Only** check box has been added.
- In the generated report, the new **Next Billing Date** column has been added. The column shows the next billing date for all projects except for the projects billed on demand. For the projects billed on demand, *On Demand* is shown in this column.



The projects billed on demand are those that have *On Demand* specified as the **Billing Period** on the Summary tab of the [Projects](#) (PM301000) form.

- In the generated report, the **Project Manager** column now shows employee names instead of employee IDs.
- The layout has been unified, and a number of design enhancements have been made.

Project Transactions (PM633000) Report

The report has been renamed from *Project Transaction Register* to *Project Transactions*. The following changes have been made to the report:

- On the **Report Parameters** tab of the report form, the **Project** box now is an optional parameter.
- On the **Report Parameters** tab of the report form, the new **Project Manager** box has been added.
- On the **Report Parameters** tab, the new **Customer** box has been added.
- On the **Report Parameters** tab, the new **Show Active Projects Only** check box has been added.
- In the generated report, the **Employee** column now shows employee names instead of employee IDs.
- In the generated report, the **Task** column has been renamed to **Project Task**.
- In the generated report, the **Ref. Nbr.** column has been renamed to **Source**.
- The layout has been unified, and a number of design enhancements have been made.

Project Cost Transaction History (PM706230) Report

The report has been renamed from *Project Cost Transaction History* to *Project Cost History*. The following changes have been made to the report:

- On the **Report Parameters** tab of the report form, the **Report Format** box has been added as a required parameter. A user can now select which report format the system uses when generating the report: *All Costs* (default) or *Only Billable Costs*. The report in the *All Costs* format shows only transactions with account groups of the *Expense* type and includes both billable and non-billable transactions. The report in the *Only Billable Costs* includes billable transactions only; in this report format, a user could review the unit cost calculated based on the billable quantity.
- In the generated report, the following report elements have been renamed to improve the report's readability:
 - **Tran. Number** to **Ref. Number**
 - **Cost Amount** to **Amount**
 - **ID** to **Vendor ID**
 - **Cost Type** to **Item Type**
- In the generated report, the asterisk symbol (*) is now used to indicate the values that include unreleased project transactions.
- The layout has been unified, and a number of design enhancements have been made.

Project Budget Forecast by Month (PJ629600) Report

The following changes have been made to the report:

- On the **Report Parameters** tab of the report form, the **Type** box has been renamed to **Budget Type**.
- In the generated report, the header with the **Project Task**, **Account Group**, **Inventory ID**, **Cost Code**, and **Description** elements has been moved to the left side to enhance the report's readability.
- In the generated report, the **Pre Period** column has been renamed to **Before Period**.
- The layout has been unified, and a number of design enhancements have been made.

Subcontract Summary (SC610500) Report

The following changes have been made to the report:

- On the **Report Parameters** tab of the report form, the new **Group Results** box has been added as a required parameter. In this box, the user can select the way the report's results should be grouped: *By Project* (default) or *By Vendor*.
- On the **Report Parameters** tab, the **Project** box has been added.
- On the **Report Parameters** tab, the **Show Open Subcontracts Only** check box has been added.
- In the generated report, the **Line Type**, **Subitem**, and **Warehouse** columns have been removed to simplify the report's layout.
- The layout has been unified, and a number of design enhancements have been made.

Subcontract Details by Vendor (SC611000) Report

The report has been renamed from *Subcontract Details by Vendor* to *Subcontract Details*. The following changes have been made to the report:

- On the **Report Parameters** tab of the report form, the new **Group Results** box has been added as a required parameter. In this box, the user can select the way the report's results should be grouped: *By Project* or *By Vendor* (default).
- On the **Report Parameters** tab, the new **Project** box has been added.
- On the **Report Parameters** tab, the new **Show Open Subcontracts Only** check box has been added.
- The layout has been unified, and a number of design enhancements have been made.

Subcontract Audit (SC644000) Report

The following changes have been made to the report:

- On the **Report Parameters** tab of the report form, the **Report Format** box has been added as a required parameter. The user can select which report format the system uses when generating the report: *Detailed* or *Summary* (default).
- The summary area of the report has been restructured.
- In the generated report, the new **Payments** section has been added. This section shows the details of payments that are related to the documents that are listed in the **Invoices** section of the report.
- In the generated report, the new **Paid to Date** box has been added in the summary area of the report.
- In the generated report, the sections that have no data are now hidden.
- In the generated report, the following report elements have been renamed to improve the report's readability:
 - The **ORDER#** column has been renamed to **Order Nbr.**
 - The **INVOICE#** column has been renamed to **Invoice Nbr.**
 - The **VENDOR/DESCRIPTION** column has been renamed to **Vendor**.
 - The **Total Invoiced to Date** column has been renamed to **Total Billed to Date**.
 - The **Invoiced to Date** column has been renamed to **Billed to Date**.
 - The **RETAINAGE UNRELEASED** column has been renamed to **Unreleased Retainage**.
 - The **Subcontract** column has been renamed to **Amount**.
 - The **Change** column has been renamed to **Amount**.
 - The **New Subcontract** label has been renamed to **Revised Subcontract**.
 - The **Balance on Subcontract** column has been renamed to **Subcontract Balance**.
 - The **Original Subcontract** column has been renamed to **Budgeted Subcontract**.
 - The **New Subcontract** column has been renamed to **Revised Subcontract**.
 - The **Remaining Subcontract** column has been renamed to **Unbilled Subcontract**.

- The layout has been unified, and a number of design enhancements have been made.

Subcontract Audit Details (SC646000) Report

The report has been deprecated. To view the information in this report, a user now runs the [Subcontract Audit](#) (SC644000) report with the **Report Format** parameter set to *Detailed*.

Subcontract Payment (SC647000) Report

The following changes have been made to the generated report:

- The report now includes all payment lines, regardless of whether the **Pay by Line** check box is selected or cleared in the payment document on the [Checks and Payments](#) (AP302000) form.
- The report now shows the details of the retainage documents next to the details of the AP bills to which these retainage documents correspond.
- The **Doc. Date** column has been added.
- The **Retainage Amount** column has been added.
- The following report boxes have been renamed to improve the report's readability:
 - The **Approved Variations** box has been renamed to **Approved Change Orders**.
 - The **Previously certified** box has been renamed to **Previously Certified**.
 - The **Job No** box has been renamed to **Job Nbr**.
 - The **Doc Date** box has been renamed to **Doc. Date**.
 - The **Less: Previous Payments** box has been renamed to **Less Previous Payments**.
 - The **Net Certified this Payment** box has been renamed to **Net Certified This Payment**.
- In the generated report, the footer note has been removed. Instead, an empty box has been added. A customizer or report designer can add custom text by using the Acumatica Report Designer.
- The layout has been unified, and a number of design enhancements have been made.

Project WIP (PM651000) Report

The report has been deprecated. To view the information in this report, a user now specifies the period for which the report will be prepared on the **Report Parameters** tab of the *Project WIP (PM651500)* report form and runs the report.

Project WIP Detail (PM652000) Report

The report has been deprecated. To view the information in this report, a user now specifies the period for which the report will be prepared on the **Report Parameters** tab of the *Project WIP Detail (PM652500)* report form and runs the report.

Project WIP (PM651500) Report

The report has been renamed from *Project WIP With Date Range* to *Project WIP*. The following changes have been made to the report:

- The report is now available if the *Projects* group of features is enabled on the [Enable/Disable Features](#) (CS100000) form.
- On the **Report Parameters** tab of the report form, the parameters have been changed as follows:
 - The **Company** and **Branch** boxes have been replaced with the **Company/Branch** box.
 - The **As of Date** box has been removed.

- The **Include Potential CO Amounts in Revised Amounts** check box has been added. The user can select whether to include the change orders that have the *Open* status in the revised amounts (if the check box is selected) or exclude them (if the check box is cleared).
- The **Planned Cost Estimation** box has been added as a required parameter. The user can specify which of the following the system should use to calculate report values: cost projections, or the revised budgeted amounts of the cost budget lines (the default option).
- The **Actuals to Period** box has been added. The user can specify the period through which the system will calculate the **Period Billings** and **Billings to Period** values in the generated report.
- In the generated report, the **Project Currency** column has been added.
- In the generated report, the values in the **Period Billings** and **Billings to Period** columns are now calculated based on the data from the project transactions that are related to AR invoices. The calculations do not include project transactions with an account group of the *Income* type that are not related to AR invoices.
- The layout has been unified, and a number of design enhancements have been made.

Project WIP Detail (PM652500) Report

The report has been renamed from *Project WIP Detail With Date Range* to *Project WIP Detail*. The following changes have been made to the report:

- The report is now available if the *Projects* group of features is enabled on the [Enable/Disable Features](#) (CS100000) form.
- On the **Report Parameters** tab of the report form, the parameters have been changed as follows:
 - The **Company** and **Branch** boxes have been replaced with the **Company/Branch** box.
 - The **As of Date** box has been removed.
 - The **Level of Details** box has been added as a required parameter. The user can specify the level of detail at which the report is prepared: by cost codes (default), by account groups, or by both.
 - The **Status** box has been removed.
 - The **Planned Cost Estimation** box has been added as a required parameter. The user can specify which of the following the system should use to calculate report values: cost projections, or the revised budgeted amounts of the cost budget lines (the default option).
 - The **Actuals to Period** box has been added. The user can specify the period through which the system will calculate the **Period Billings** and **Billings to Period** values in the generated report.
- In the generated report, the **Project Currency** column has been added.
- In the generated report, the values in the **Period Billings** and **Billings to Period** columns are now calculated based on the data from the project transactions that are related to AR invoices. The calculations do not include project transactions with an account group of the *Income* type that are not related to AR invoices.
- The **Include Potential CO Amounts in Revised Amounts** check box has been added. The user can select whether to include the change orders that have the *Open* status in the revised amounts (if the check box is selected) or exclude them (if the check box is cleared).
- The layout has been unified, and a number of design enhancements have been made.

Construction Bonding Report (PM650500)

The following changes have been made to the generated report:

- On the **Report Parameters** tab of the report form, the parameters have been changed as follows:
 - The **Company** and **Branch** boxes have been replaced with the **Company/Branch** box.
 - The **As of Date** box has been removed.
 - The **As of Period** box has been added. The user can specify the period based on which the system will filter the projects to be included in the report. (The report includes only the projects with a start date earlier than or within the specified **As of Period**.)

- The **Cost At Complete** column has been renamed to **Cost At Completion**. The **Cost to Complete** and **Cost at Completion** columns are included in the report if the report is generated with the **Use Cost Projections** check box cleared. Otherwise, if the check box is selected, the **Projected Cost to Complete** and **Projected Cost at Completion** columns are included in the report instead.
- The layout has been unified, and a number of design enhancements have been made.

Project Transaction Details (PM401000) Form

The following changes have been made to the form:

- In the Selection area of the form, the following form elements have been renamed:
 - **From** to **Start Date**
 - **To** to **End Date**
 - **Show only Allocation Transactions** to **Show Only Allocation Transactions**
 - **Tran. ID** to **Ref. Number**
- The **Cost Transactions** tab has been added. On this tab, a user can review the project transactions that are related to only account groups of the *Expense* type.
- A number of design enhancements have been made to the layout of the inquiry form.

Commitments (PM306000) Form

The following changes have been made to the form:

- In the Selection area of the form, the elements have been changed as follows:
 - The **Vendor** and **Project Manager** boxes have been added to give the user the ability to narrow the records by these criteria.
 - The **Revised Committed Quantity** box has been renamed to **Revised Qty.**
 - The **Revised Committed Amount** box has been renamed to **Revised Amt.**
 - The **Committed Open Quantity** box has been renamed to **Open Qty.**
 - The **Committed Open Amount** box has been renamed to **Open Amt.**
 - The **Committed Received Quantity** box has been renamed to **Received Qty.**
 - The **Committed Invoiced Quantity** box has been renamed to **Invoiced Qty.**
 - The **Committed Invoiced Amount** box has been renamed to **Invoiced Amt.**
- In the table, the following columns have been added to provide more details about commitments:
 - **Vendor:** The vendor ID specified in the commitment document.
 - **Vendor Name:** The name of the vendor specified in the commitment document. The vendor name is specified for the vendor record in the **Account Name** box on the **General** tab of the [Vendors](#) (AP303000) form.
 - **Project Description:** The project description specified in the Summary area of the [Projects](#) (PM301000) form.
 - **Project Manager:** The project manager of the project specified in the commitment document. (The project manager is specified on the **Summary** tab of the [Projects](#) form.)
 - **Owner:** The owner of the commitment document. The owner is specified in the Summary area of the [Purchase Orders](#) (PO301000) form (if the commitment is based on a purchase order) or the [Subcontracts](#) (SC301000) form (if the commitment is based on a subcontract).
- In the table, the purchase order type is now shown in the **Related Document Type** column.
- The **Cost Commitments** tab was removed because it was redundant and showed the same information as the **All Records** tab presented.
- A number of design enhancements have been made to the layout of the inquiry form.

Potential Project Budget Overruns (PM404000) Form

This form (previously titled *Project Budget Overruns*) has the following changes:

- In the Selection area of the form, the following form elements have been renamed:
 - **From** to **Start Date**
 - **To** to **End Date**
- In the table, the following columns have been added:
 - **Project Description:** The description of the project.
 - **Transaction Description:** The description of the project transaction.
- A number of design enhancements have been made to the layout of the inquiry form.

Project Summary (PMGI0025) Form

The following changes have been made to the form:

- In the Selection area, the **Project Manager** box has been added to give the user the ability to narrow records based on the specified manager.
- In the table, the following changes have been made:
 - The **Original Contract** column has been renamed to **Original Budgeted Amount**.
 - The **Approved Contract Changes** column has been renamed to **Budgeted CO Amount**.
 - The **Revised Contract** column has been renamed to **Revised Budgeted Amount**.
 - The **Revenue to Date** column has been renamed to **Billed to Date**.
 - The **Project Manager** column has been added to show the project manager of the project. The project manager is specified on the **Summary** tab of the [Projects](#) (PM301000) form.
 - The **Project Currency** column has been added to show the currency of the project. The project currency is specified on the **Summary** tab of the [Projects](#) (PM301000) form.
 - The redundant hyperlinks have been removed from the **Description** column.
- A number of design enhancements have been made to the layout of the inquiry form.

Pro Forma Invoice Correction History (PMGI0030) Form

The following changes have been made to the form:

- In the table, the following columns have been added:
 - **Currency:** The currency of the pro forma invoice.
 - **Quantity to Invoice:** The quantity to bill the customer.
- The redundant hyperlinks have been removed from the **Project Task**, **Account Group**, **Cost Code**, and **Inventory ID** columns.
- A number of design enhancements have been made to the layout of the inquiry form.

Budget Details (PMGI0010) Form

The form has been changed as follows:

- In the table, the following changes have been made:
 - The **Project Currency** column has been added to show the currency of the project.
 - The **Cost Code** column has been added to show the cost code specified in the budget line.
 - The **Task ID** column has been renamed to **Project Task**.

- The **Description** column that is located after the **Project ID** column has been renamed to **Project Description**.
- The **Description** column that is located after the **Type** column has been renamed to **Line Description**.
- A number of design enhancements have been made to the layout of the inquiry form.

Budget Summary by Account Group (PMPV0010) Form

The **Variance Amount** column has been hidden from the default pivot view because the values in this column are not useful on the budget summary level and are not applicable to revenues.

Project Transaction Inquiry (PMGI0035) Form

The *Project Transaction Inquiry (PMGI0035)* form has been removed from the system.

Projects and Construction: Other Improvements

In Acumatica ERP 2023 R1, multiple improvements to the project accounting and construction have been introduced, as described in the sections below.

Improvements to the Cost Projections Form

To make cost projections easier to use and more informative, new informational columns (**Projected Variance Quantity** and **Projected Variance Cost**) have been added to the **Details** tab of the **Cost Projection** (PM305000) form, as shown in the following screenshot.

The screenshot shows the 'Cost Projection' form for 'ITALIAN2 1 - Italian restaurant (Denver Avenue)'. The 'DETAILS' tab is active, displaying a table of cost projection lines. The table has columns for Cost Task, Description, UOM, Budgeted Quantity, Budgeted Cost, Actual + Committed Open Quantity, Actual + Committed Open Cost, Quantity to Complete, Cost to Complete, Projected Quantity to Complete, Projected Cost to Complete, Projected Quantity at Completion, Projected Cost at Completion, Projected Variance Quantity, and Projected Variance Cost. The last two columns are highlighted with a red box.

Cost Task	Description	UOM	Budgeted Quantity	Budgeted Cost	Actual + Committed Open Quantity	Actual + Committed Open Cost	Quantity to Complete	Cost to Complete	Projected Quantity to Complete	Projected Cost to Complete	Projected Quantity at Completion	Projected Cost at Completion	Projected Variance Quantity	Projected Variance Cost
03	Concrete	EA	16,411.00	113,990.00	110.00	106,517.00	16,301.00	7,473.00	16.73	16,200.00	126.73	122,717.00	-16,284.27	8,727.00
04	Masonry		0.00	71,250.00	0.00	45,000.00	0.00	26,250.00	0.00	23,500.00	0.00	68,500.00	0.00	-2,750.00

Figure: New columns on the Cost Projections form

The **Projected Variance Quantity** for each line reflects the difference between the **Projected Quantity at Completion** and **Budgeted Quantity**. The **Projected Variance Cost** is calculated as the difference between the **Projected Cost at Completion** and **Budgeted Cost**. A user can manually enter values in these columns, or the system will calculate them automatically after the user changes any value in another column of a cost projection line.

Also, in the Summary area of the **Cost Projection** form, a new **Totals by Project** section with the project profitability information has been added (see the following screenshot). The boxes in this section show the initially budgeted project revenue, the cost, the profit and the projected cost impact on the project results.

The screenshot shows the 'Cost Projection' form for 'ITALIAN2 1 - Italian restaurant (Denver Avenue)'. The 'SUMMARY' tab is active, displaying a section titled 'TOTALS BY PROJECT'. This section contains a table with project profitability information, including Budgeted Revenue, Actual + Committed Costs, Cost to Complete, Cost at Completion, Gross Profit, Cost Variance, and Projected Gross Profit. The table is highlighted with a red box.

TOTALS BY PROJECT	
Budgeted Revenue:	2,186,984.80
Actual + Committed Costs:	977,305.16
Cost to Complete:	708,490.84
Cost at Completion:	1,685,796.00
Gross Profit:	501,188.80
Cost Variance:	5,977.00
Projected Gross Profit:	495,211.80

Figure: Cost projection total by project

Also, on the More menu of the [Cost Projection](#) form, the **Project WIP** command has been added. By clicking this command, the user opens the [Project WIP](#) (PM651500) report for the project specified in the cost projection.

For more information about using cost projections for projects, see [Project Cost Projections: General Information](#).

Ability to Specify the Date and Financial Period in Allocation Reversal Transactions

In previous versions of Acumatica ERP, when a user was running an allocation rule, the system inserted the current business date as the date of the allocation reversal transaction. On the [Allocation Rules](#) (PM207500) form, there was no ability to select which date should be specified in the allocation reversal transaction.

To address the issue, the **Use Reversal Date from Original Transaction** check box has been added on the **Allocation Settings** tab of the [Allocation Rules](#) form. Also, the form layout has been reorganized to group the settings related to transaction reversal in a separate section, **Transaction Reversal** (see the following screenshot).

To use the date and financial period of the original allocation transaction that is being reversed, the user needs to select the **Use Reversal Date from Original Transaction** check box. If the check box is cleared (which is the default state), the system uses the current business date and the financial period to which this date belongs.

The screenshot displays the 'Allocation Rules' form for 'TMWIP - Time and Material with WIP'. The 'ALLOCATION SETTINGS' tab is active. On the left, a list of steps is shown: 10 Labor expenses, 20 Travel expenses, 30 Material expenses, 100 Burden, 200 WIP, 210 WIP Burden, 300 Billable labor, 310 Billable travel, and 320 Billable material. The 'TRANSACTION REVERSAL' section is highlighted with a red box and contains the following settings: 'Reverse Allocation' is set to 'On AR Invoice Generation', and the 'Use Reversal Date from Original Transaction' checkbox is checked.

Figure: Transaction reversal settings on the Allocation Rules form

Enhancements in Specifying Project-Related Information in Payments

In previous versions of Acumatica ERP, on the **Documents to Apply** tab of the [Checks and Payments](#) (AP302000) form, the system did not automatically fill in the project-related columns (**Project**, **Project Task**, **Inventory ID**, and **Cost Code**) in document lines if the **Require Single Project per Document** check box was selected on the [Accounts Payable Preferences](#) (AP101000) form. It is a common scenario in the construction industry for all lines of a particular AP bill to be linked with the same project, which a user specifies for that bill. In Acumatica ERP 2023 R1, this scenario has been supported.

Now if the **Require Single Project per Document** check box is selected on the [Accounts Payable Preferences](#) (AP101000) form, the system automatically populates the project-related settings in document lines on the **Documents to Apply** tab of the [Checks and Payments](#) (AP302000) form if the bill listed in the line is related to a particular project.

Improved Configuration of an Approval Map

In previous versions of Acumatica ERP, a user was not able to specify the reasons for approval and rejection for change requests and daily field reports. Now when a user configures an approval map on the [Approval Maps](#) (EP205015) form and the entity type is *Daily Field Report* or *Change Requests*, the **Reason for Approval** and **Reason for Rejection** boxes are available in the **Reason Settings** section on the **Rule Actions** tab of this form.

Ability to Specify the Tax Category for Commitments in Change Orders

In previous versions of Acumatica ERP, a user was not able to assign a tax category in the lines on the **Commitments** tab of the [Change Orders](#) (PM308000) form. Because the user could not edit the tax category in purchase orders and subcontracts created on release of the change order, the lines with an empty inventory item had empty tax category and the user was not able to correct this.

In Acumatica ERP 2023 R1, the **Tax Category** column has been added on the **Commitments** tab of the [Change Orders](#) (PM308000) form. For each line on the tab, this column shows the tax category to be specified in the line or lines of the corresponding purchase order or subcontract. By default, it is tax category defined for the non-stock or stock item specified in the commitment line of the change order. If the line has no inventory item, the tax category is empty by default. The user can override the tax category in the lines that have the *New Document* or *New Line* status specified in the **Status** column.

Enhancements in Substantiated Billing Reports

In previous versions of Acumatica ERP, the [Substantiated Billing](#) (PM650000) and [Substantiated Billing - Consolidated](#) (PM650050) reports included project transactions related to accounts payable bills only.

Starting Acumatica ERP 2023 R1, the substantiated billing reports show amounts of project transactions that are related to debit and credit adjustments, as well as to AP bills.

Changes in Billing Rule Configuration

Starting Acumatica ERP 2023 R1, the system prevents users from including multiple time and material billing steps for the same account group in one billing rule. That is, in a billing rule on the [Billing Rules](#) (PM207000) form, for each account group defined in the system on the [Account Groups](#) (PM201000) form, the user can create only one active billing step of the *Time and Material* billing type linked to this account group.



On the [Billing Rules](#) form, review all billing rules configured in the system. If any of the rules has multiple steps configured for the same account group, the project accountant needs to reconfigure this billing rule. Otherwise, the result of billing for time and material may be inconsistent in the projects that are using this billing rule.

System Administration: Ability to Create a Memory Dump from the UI

In previous versions of Acumatica ERP, memory dumps could be created only by the Acumatica support team. Because Acumatica support specialists cannot create memory dumps immediately after an issue occurs, memory dumps did not fully reflect the system's state at the time when the issue occurred, which limited the effectiveness of these memory dumps for troubleshooting.

In Acumatica ERP 2023 R1, users with *AcumaticaSupport* and *Administrator* roles memory dumps on their own. If a user has reported a performance issue to the support team, a team member may ask the user to create a memory dump of the system after the issue has occurred.

Creation of a Memory Dump

On the **Running Processes** tab of the *System Monitor* (SM201530) form, the **Create Memory Dump** button has been added on the table toolbar (see the following screenshot).

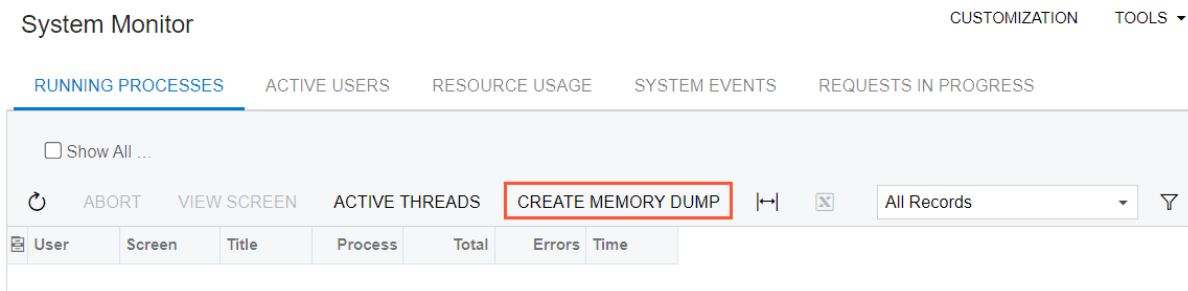


Figure: The updated System Monitor form

A user clicks the button to initiate the creation of a memory dump. The system opens the **Create Memory Dump** dialog box. In the dialog box, the user can select the type of memory dump to create (see the following screenshot).

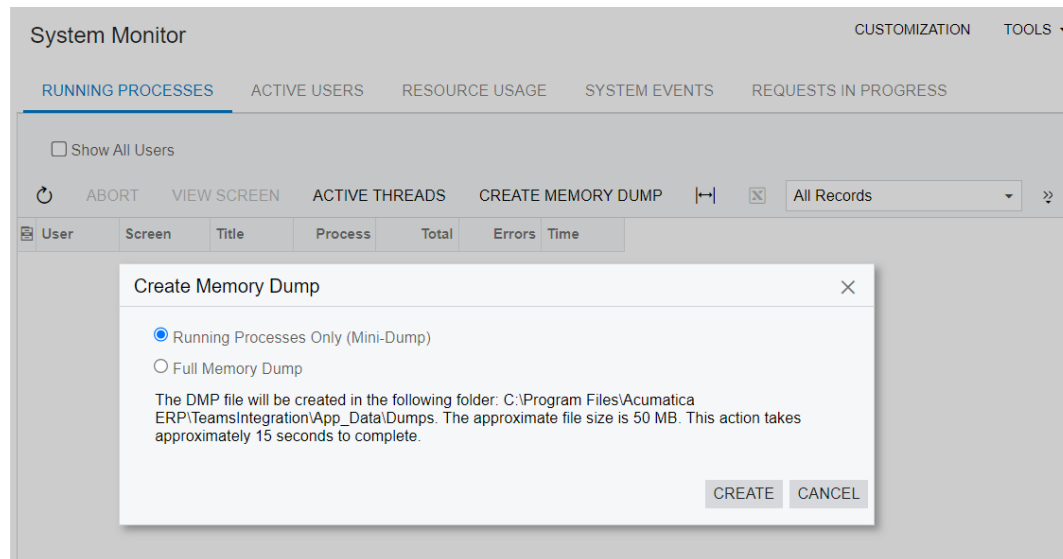


Figure: The Create Memory Dump dialog box



Creating a full memory dump can cause performance issues and may even cause the instance to restart.

The system administrator clicks **Create** to create the memory dump. When the memory dump has been created successfully, the system shows a dialog box with the location of the created memory dump (see the following screenshot).

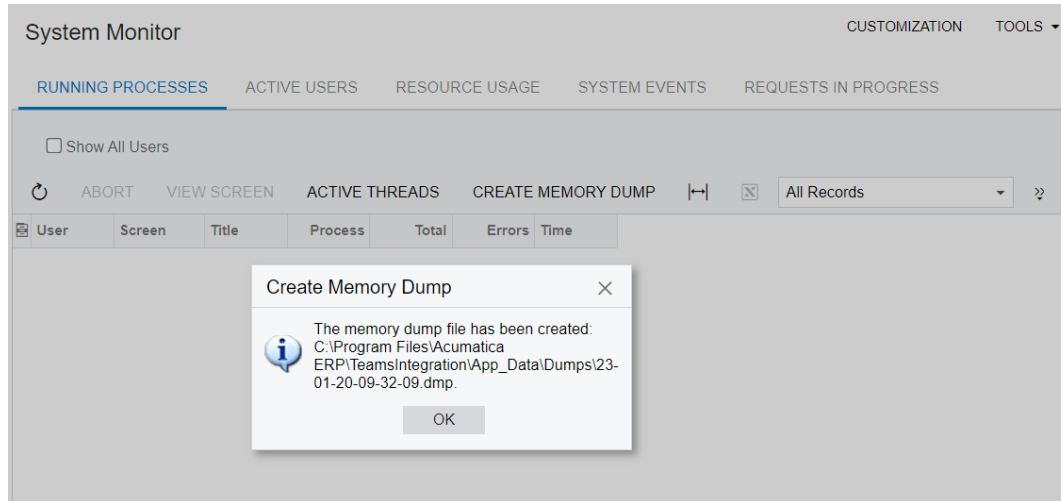


Figure: Completion of memory dump creation

System Administration: Deletion of Snapshots and Tenants in Batches

In previous versions of Acumatica ERP, the process of deleting snapshots or tenants took some time and affected the performance of the database server. These performance issues sometimes caused interruptions to user activities. Also, during the deletion of a tenant, Acumatica ERP recommended switching on maintenance mode to prevent users from accessing the system, which also caused some delays in user activities.

In Acumatica ERP 2023 R1, the process of deleting snapshots and tenants has been improved to address the possible performance issues and interruptions to user activities. The system deletes tenants and snapshots in batches, instead of deleting all the data in one operation.

Changes to the Existing Forms and a New Processing Form

On the [Tenants](#) (SM203520) form, the **Delete** button is now unavailable on the form toolbar (see Item 1 on the following screenshot) and on the table toolbar of the **Snapshots** tab (Item 2). The system displays an informational message for these buttons that explains how to proceed with the deletion process (Item 3).

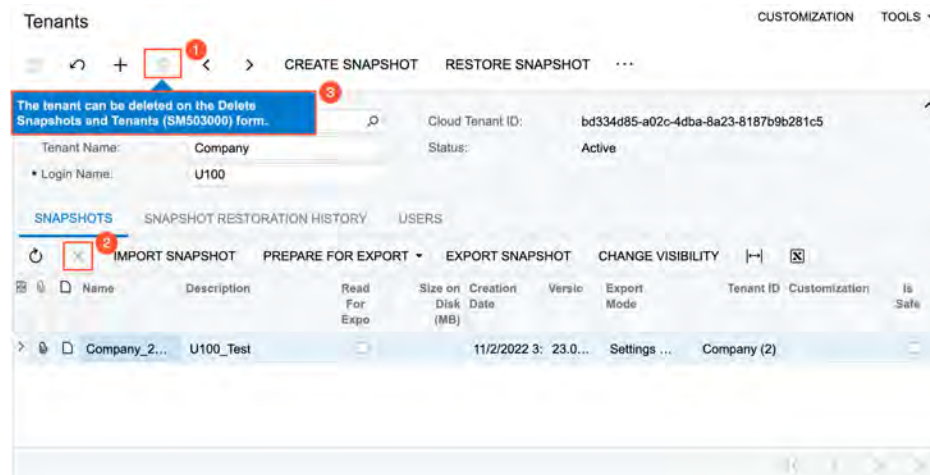


Figure: The unavailable Delete buttons on the Tenants form.

The new *Delete Snapshots and Tenants (SM503000)* processing form has been introduced (see the following snapshot). A system administrator can initiate the deletion of snapshots, orphaned snapshots, and tenants through the UI only by using the new form.

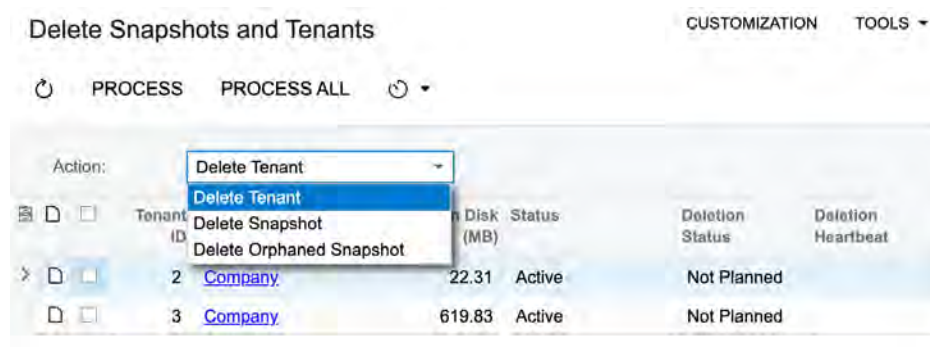


Figure: The new Delete Snapshots and Tenants (SM503000) form

The set of columns on the form depends on the option selected in the **Action** box, which is *Delete Tenant*, *Delete Snapshot*, or *Delete Orphaned Snapshot*. Regardless of the option selected, the following columns are displayed in the table so that the system administrator can review this information related to the deletion process:

- **Deletion Status:** The current deletion status, which can be one of the following:
 - *Not Planned:* The deletion process has not been initiated for the record.
 - *Planned:* The record was marked for deletion, but the process has not been started yet.
 - *Started:* The deletion process was started for the record but has not been completed.
- **Deletion Progress:** The name of the table that is being deleted at the moment. If the deletion was interrupted, the system would display the name of the table that was being deleted when the interruption occurred.
- **Deletion Heartbeat:** The time of the last database query.

The other columns provide additional information that is specific to the object being deleted.

Deletion of Snapshots

If the *Delete Snapshot* or *Delete Orphaned Snapshot* option is selected in the **Action** box of the *Delete Snapshots and Tenants (SM503000)* processing form, the system displays the available snapshots in the table. A system administrator can review the snapshot details and initiate the deletion of one snapshot or multiple snapshots by clicking **Process All** or selecting the unlabeled check box for each snapshot to be processed and clicking **Process**.

When the system administrator has initiated the deletion process, the system does the following for each snapshot marked for deletion:

1. Changes the **Deletion Status** to *Planned* and hides the snapshot from the **Snapshots** tab of the *Tenants (SM203520)* form.
2. Changes the **Deletion Status** to *Started* and starts the deletion of the snapshot in batches.

Deletion of Tenants

If the *Delete Tenant* option is selected in the **Action** box of the *Delete Snapshots and Tenants (SM503000)* processing form, the system displays the available tenants in the table. A system administrator can review tenant details and initiate deletion of one or multiply tenants by using the standard functionality of the processing forms.

When the system administrator has initiated the deletion process, the system does the following for each tenant marked for deletion:

1. Changes the **Deletion Status** to *Planned*. With this status, the tenant is locked for sign-in and is not available for selection on the *Tenants (SM203520)* form.
2. If the tenant has snapshots, deletes the snapshots of the tenant according to the procedure.
3. After snapshots have been deleted, changes the **Deletion Status** to *Started* and starts the deletion of the tenant in batches.

System Administration: Enhancements to Business Events Triggered by Action

In previous versions of Acumatica ERP, it was possible to create business events triggered by changes occurred on data entry forms.

In Acumatica ERP 2023 R1, an ability to create a business event triggered by an existing action on a data entry form has been added.

Creation of a Business Event

Creation of a business event triggered by an action of a data entry form is not much different from the standard process. The only difference is that the user needs to select an action in the **Action Name** box that will trigger the business event. All actions defined in the code or in the workflow for the primary DAC of the selected form are available for selection in the **Action Name** box (see the following screenshot).

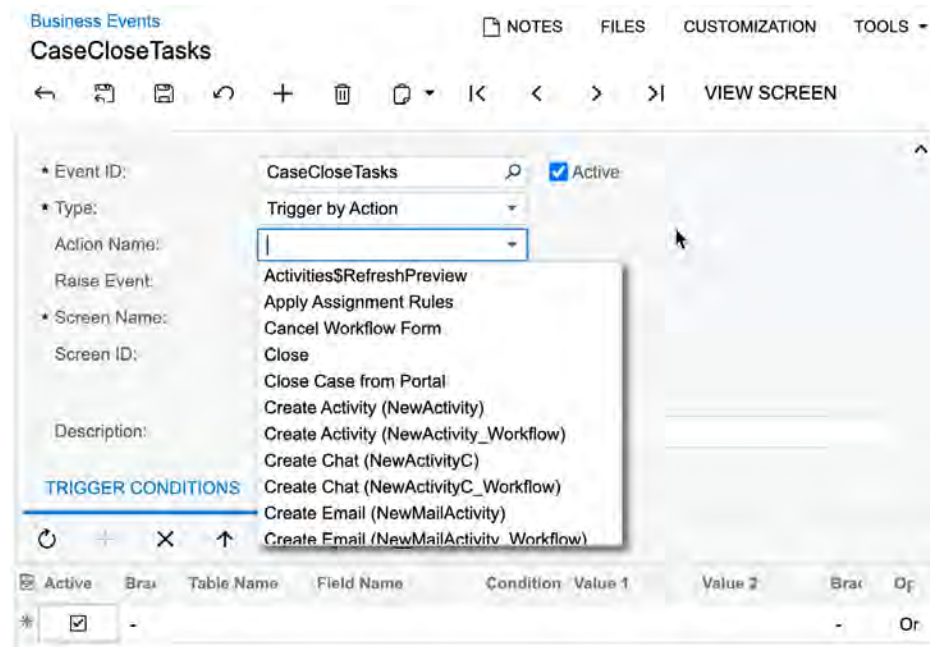


Figure: The list of actions available for the Cases form

With the action selected, the user then can create needed subscribers or link existing ones on the **Subscribers** tab.

Also, the user can specify additional conditions on the **Trigger Conditions** tab if needed. If additional conditions are specified, the system will execute subscribers if the action has been triggered and conditions has been met. Please note, the **Operation** column is not available for condition creation in this case.

Execution of a Business Event

For the business events triggered by an action on a data entry form, the system starts processing of the business events after all the workflow steps defined for the clicked action are completed. That is, transition by action is done and all the affected fields are updated.

Changes to the Business Events Dialog Box

The following changes have been introduced to the **Business Events** dialog box that can be accessed from the **Tools** menu on the form title bar.

The **Create Business Event** button has been moved to the new **Configuration** tab (see Item 1 on the following screenshot). The new **History** tab is available if at least one business event has been configured for the form (Item 2).

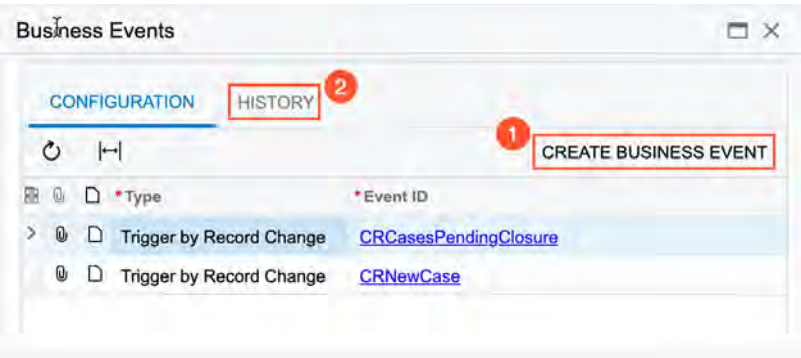


Figure: Changes to the Business Events dialog box

The **History** tab displays processing details for the business events triggered by action for a document currently selected on the form.

System Administration: New Subscriber for Business Events

In previous versions of Acumatica ERP, it was possible to execute multiple import scenarios for business events based on generic inquiries. For business events based on data entry forms, there was no such possibility. Also, the configuration of an import scenario can take a significant amount of time and requires advanced knowledge of the system. In most cases, it is sufficient to execute one action when a business event is triggered and the configuration of an import scenario would involve excessive effort.

Acumatica ERP 2023 R1 introduces the ability to configure an action execution as a subscriber for a business event.

Configuration of an Action Execution as a Subscriber

On the [Business Events](#) (SM302050) form, the new **Action Execution** command has been added to the **Create Subscriber** menu on the **Subscribers** tab, as shown in the following screenshot.

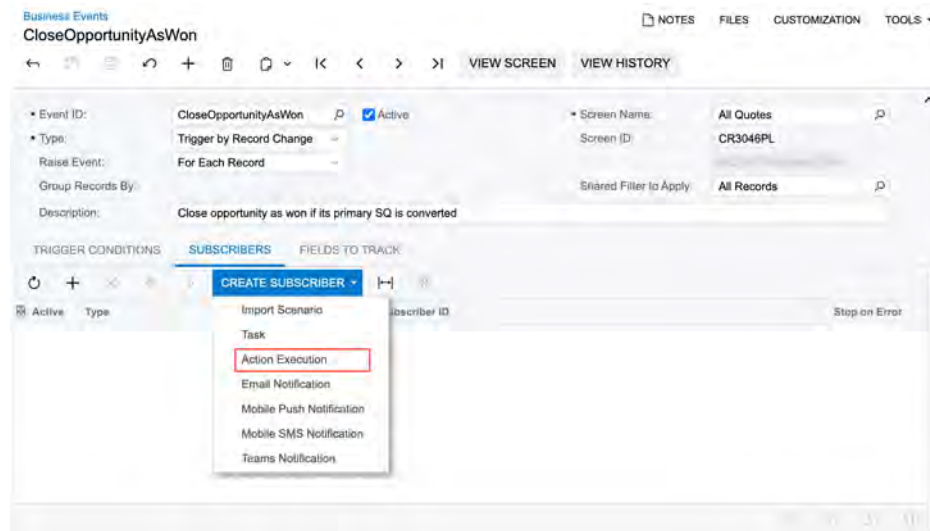


Figure: The new Action Execution subscriber

When a user clicks **Create Subscriber > Action Execution**, the system opens the [Action Executions](#) (SM204007) form in a pop-up window. First, the user specifies the data entry form in the **Action Screen ID** box. Then in the **Action Name** box, the user selects the action that the system should execute when the business event is triggered (see Item 1 in the following screenshot). All actions defined in the code or in the workflow for the primary DAC of the selected form are available for selection in this box.

On the **Keys** tab of the form, the system displays the list of key fields that are required to identify a record for which the system will execute the action on the selected data entry form (Item 2). The system will execute the action for the record. The values for these keys will be provided by the data source (inquiry or data entry form) specified for the business event, which is shown in the **Event Screen ID** box of the form (Item 3).

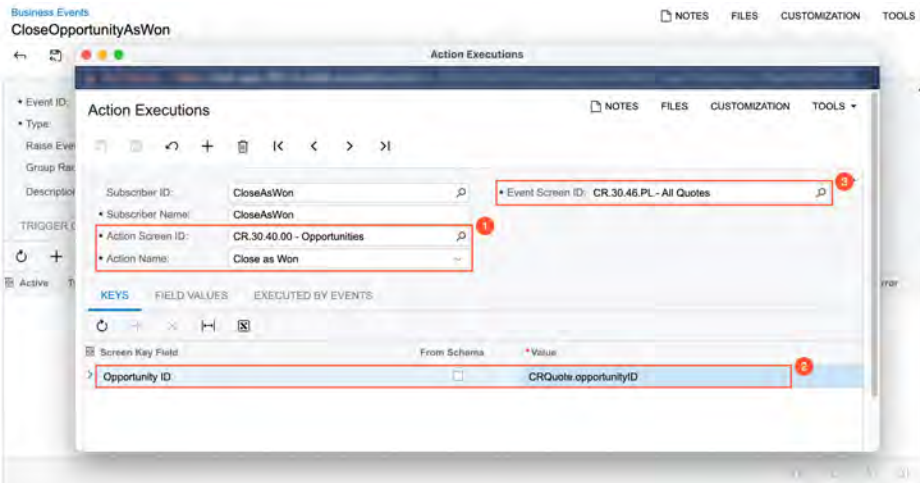


Figure: Specification of key fields for the subscriber

Next, on the **Field Values** tab, the user specifies the key fields and their values that are required for the action execution, as the following screenshot shows.

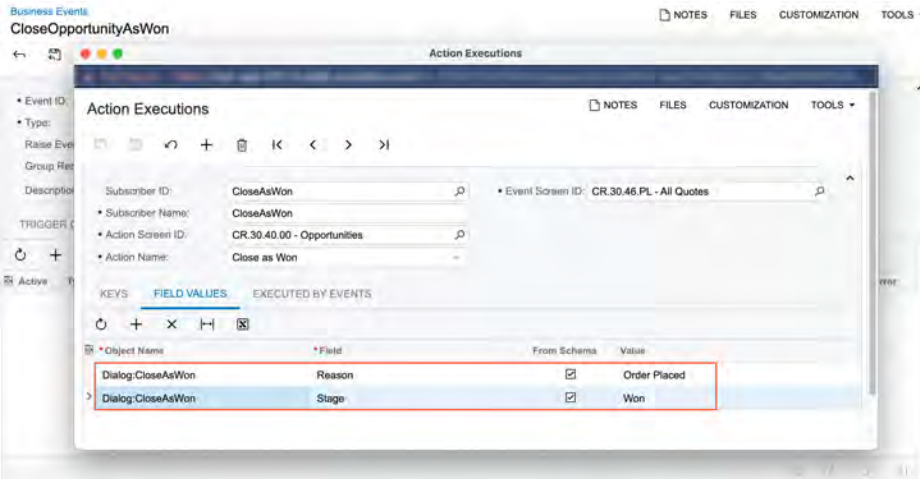


Figure: Specification of key fields required for the action

When all the needed settings are specified, the user saves the configured action execution and closes the pop-up window. The system displays the configured subscriber on the **Subscribers** tab of the *Business Events* form for the business event, as shown in the following screenshot.

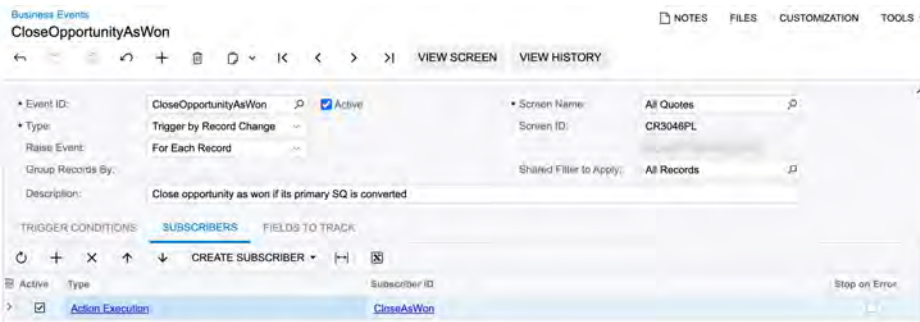


Figure: The configured subscriber on the Subscribers tab

Processing of an Action Execution as Subscriber

When the business event occurs and the system processes the subscriber of the *Action Execution* type, the system passes the values of key fields to the data entry form specified for the subscriber to identify the record for which the action should be executed. For this record, the system passes the values specified on the **Field Values** tab of the [Action Executions](#) (SM204007) form for the subscriber and executes the action. The system generates the business event for each record that satisfies the conditions, regardless of the value specified in the **Raise Event** box of the [Business Events](#) (SM302050) form for the business event.

If the action has been executed successfully, the system considers the subscriber to be successfully processed and adds a record on the [Business Event History](#) (SM502030) form. If any error has occurred during the processing of the subscriber, the system displays the error on the [Business Event History](#) form for the business event.

System Administration: Improvements to the Trace Page

In Acumatica ERP 2023 R1, multiple improvements (described in the following sections) have been made to the Trace page. This page opens when an administrator clicks **Tools > Trace** on the title bar of an Acumatica ERP form.

The updated page is shown in the following screenshot.

Last Requests 1 Issues Issues: All Screen: All Type: All SUBMIT LOGS

Issues	Screen ID	Request Type	Command	Duration, ms	Time (UTC)
	SM201510	LongRun		6 073	18:38:44
	SM201510	Screen	HTML	719	18:38:43
	SM201510	Screen	ReloadPage	1 172	18:38:43
1	SM201510	Screen	saveLicense	21 080	18:38:21
	SM201510	Screen	Load	30	18:37:48
	SM201510	Screen	saveLicense	10 875	18:37:37
	SM201510	Screen	installLicense	10 060	18:37:25
	SM201510	Screen	Load	31	18:37:23
	SM201510	Screen	installLicense	11 671	18:37:11
	SM201510	Screen	Refresh	29	18:37:09

User Name: Admin\SDR F Local Time: 2023-01-12 21:38:50
Version: 23.093.0207 UTC Time: 2023-01-12 18:38:50
Customizations: None

Requests

Screen ID: SM201510
Request Type: Screen
Start Time: 2023-01-12 18:38:21 UTC
Command: saveLicense
Company: T100
Keys:

Performance

Server Time, ms: 21 080
CPU Time, ms: 2 156
SQL Time, ms: 544
Wait Time, ms: 18 300
SQL Count: 496
SQL Rows: 0

Messages and Exceptions

- System.ArgumentNullException** 2023-01-12 18:38:21 UTC Count: 2
Value cannot be null. Parameter name: source
- PX.Data.InstanceCountWarningException** 2023-01-12 18:38:30 UTC
- Information** 2023-01-12 18:38:42 UTC
A license has been activated. CustomerName: Acumatica U.S.A. DomainName:
- System.Exception** 2023-01-12 18:38:42 UTC
Refresh
- System.Exception** 2023-01-12 18:38:42 UTC
Refresh
- Error** 2023-01-12 18:38:42 UTC
Refresh
- System.Exception** 2023-01-12 18:38:42 UTC
Refresh

Figure: The updated Trace page

Changes to the Header

The header now contains an issue counter (see Item 1 in the following screenshot) and three filters (Item 2).

Last Requests 1 Issues Issues: All Screen: All Type: All SUBMIT LOGS

Issues	Screen ID	Request Type	Command	Duration, ms	Time (UTC)
1	SM206015	Screen	Delete	368	12:28:09
	SM206015	Screen	Cancel	383	12:28:05
	SM206015	Screen	Refresh	88	12:28:04
	SM206015	Screen	DropDown	50	12:27:58
	~\n\even...	LongRun		19 332	12:27:54
	SM206025	Screen	HTML	2 236	12:27:54
	SM206025	Screen	ReloadPage	1 991	12:27:54
	SM206025	Screen	CopyPaste@	426	12:27:47
5	~\pages\...	Screen	UploadFile	124	12:27:47
	SM206025	Screen	CopyPaste@	35	12:27:41

User Name: Admin\SDR F Local Time: 2023-01-16 15:28:13
Version: 23.093.0207 UTC Time: 2023-01-16 12:28:13
Customizations: None

Requests

Screen ID: SM206015
Request Type: Screen
Start Time: 2023-01-16 12:28:09 UTC
Command: Delete
Company: T100
Keys: Name=Import/Export Customers

Performance

Server Time, ms: 368
CPU Time, ms: 296
SQL Time, ms: 64
Wait Time, ms: 7
SQL Count: 29
SQL Rows: 27

Messages and Exceptions

- PX.Data.PXException** 2023-01-16 12:28:09 UTC
Exception Type: PX Data PXException
Message: Error: A mapping that uses the current data source exists. The record cannot be deleted.
Stack Trace: at PX.Data.PXFirstChanceExceptionLogger.ProfilerFirstChanceException(Object o, FirstChanceExceptionEventArgs args) at PX.Api.SYProviderMaint.SYProvider_RowDeleting(PXCache sender, PXRowDeletingEventArgs e) at PX.Data.PXCache.OnRowDeleting(Object item, Boolean externalCall) at PX.Data.PXCache.Delete(Object data, Boolean bypassInterceptor) at PX.Data.PXDelete1.Handler(PXCache sender, PXRowDeletingEventArgs e) at PX.Data.PXAction1.Handler(PXCache sender, PXRowDeletingEventArgs e) at PX.Web.UI.PXBaseDataSource.TryExecutePendingCommand(String viewName, String[] sortcolumns, Boolean[] descenders, C at PX.Web.UI.PXBaseDataSource.ExecuteSelect(String viewName, DataSourceSelectArguments arguments, PXDataSourceSelectArgument at PX.Web.UI.PXDataSource.ExecuteSelect(String viewName, DataSourceSelectArguments arguments, PXDataSourceSelectArgument at PX.Web.UI.PXDataSourceView.Select(DataSourceSelectArguments arguments, PXDataSourceSelectArguments arguments, DataSo at PX.Web.UI.PXFormDataProvider.DataBind()) at PX.Web.UI.PXCallbackManager.CollectDataControls(Dictionary`2 controlsDic, List`1 controlsList) at PX.Web.UI.PXCallbackManager.RenderClientData(PXCallbackResultMethod resultMethod, XrmWriter writer) at PX.Web.UI.PXCallbackManager.GetCallbackResultInternal(PXCallbackResultMethod resultMethod) at PX.Web.UI.PXCallbackManager.GetCallbackResult(PXCallbackResultMethod resultMethod) at System.Web.UI.Page.RenderCallback() at System.Web.UI.Page.ProcessRequestMain(Boolean includeStagesBeforeAsyncPoint, Boolean includeStagesAfterAsyncPoint) at System.Web.UI.Page.ProcessRequest(Boolean includeStagesBeforeAsyncPoint, Boolean includeStagesAfterAsyncPoint) at System.Web.UI.Page.ProcessRequest() at System.Web.UI.Page.ProcessRequest(HttpContext context)
- PX.Data.PXException** 2023-01-16 12:28:09 UTC
Error: A mapping that uses the current data source exists. The record cannot be deleted.

Figure: The header with an issue counter and filters

By using the issue counter, the administrator can track the number of issues (that is, errors and warnings). If there are no issues, the counter is not displayed. The number of exceptions is not displayed.

An administrator uses the filters to display specific types of records in all parts of the page as follows:

- **Issues:** Shows all records or only records with issues
- **Screens:** Shows records for all forms or a specific form
- **Type:** Shows all requests or requests of a particular type

Changes to the Last Requests Table

The Last Requests table contains the **Issues** column, which displays the number of issues for the form in the request in the row (see the following screenshot).

Last Requests Issues: 6 Issues: All Screen: All Type: All [SUBMIT LOGS](#)

Issues	Screen ID	Request Type	Command	Duration, ms	Time (UTC)
1	SM206015	Screen	Delete	368	12:28:09
	SM206015	Screen	Cancel	383	12:28:05
	SM206015	Screen	Refresh	88	12:28:04
	SM206015	Screen	DropDown	50	12:27:58
	~!m!even...	LongRun		19 332	12:27:54
	SM206025	Screen	HTML	2 238	12:27:54
	SM206025	Screen	ReloadPage	1 991	12:27:54
	SM206025	Screen	CopyPaste@...	428	12:27:47
5	~!pagsis...	Screen	UploadFile	124	12:27:47
	SM206025	Screen	CopyPaste@...	35	12:27:41

User Name: Admin\SCRF Version: 21.09.0.0207 Customizations: None Local Time: 2023-01-16 15:28:13 UTC Time: 2023-01-16 12:28:13

Requests

Screen ID: SM206015
Request Type: Screen
Start Time: 2023-01-16 12:28:09 UTC
Command: Delete
Company: T100
Keys: Name=Import/Export Customers

Performance

Server Time, ms: 368
CPU Time, ms: 296
SQL Time, ms: 64
Wait Time, ms: 7
SQL Count: 29
SQL Rows: 27

Messages 1 EXCEPTIONS 4 SQL 16

PX.Data.PXException 2023-01-16 12:28:09 UTC

Exception Type: PX.Data.PXException
Message: Error: A mapping that uses the current data source exists. The record cannot be deleted.
Stack Trace: at PX.Data.PXFirstChanceExceptionLogger.ProfilerFirstChanceException(Object o, FirstChanceExceptionEventArgs args) at PX.Api.SYProviderMaint.SYProvider_RowDeleting(PXCache sender, PXRowDeletingEventArgs e) at PX.Data.PXCache.OnRowDeleting(Object item, Boolean externalCall) at PX.Data.PXCache.Delete(Object data, Boolean bypassInterceptor) at PX.Data.PXDelete.Delete(Handler handler, MoveNext) at PX.Data.PXAction`1.<Press>d__38.MoveNext() at PX.Web.UI.PXBaseDataSource.byExecutePendingCommand(String viewName, String[] sortcolumns, Boolean[] descendings, C at PX.Web.UI.PXBaseDataSource.ExecuteSelect(String viewName, DataSourceSelectArguments arguments, PXDSSelectArguments at PX.Web.UI.PXDataSource.ExecuteSelect(String viewName, DataSourceSelectArguments arguments, PXDSSelectArguments f at PX.Web.UI.PXDataSourceView.Select(DataSourceSelectArguments arguments, PXDSSelectArguments swarguments, DataSo at PX.Web.UI.PXFormDataProvider.DataBind() at PX.Web.UI.PXCallbackManager.CollectDataControls(Dictionary`2 controlsDic, List`1 controlsList) at PX.Web.UI.PXCallbackManager.RenderClientData(PXCallbackResultMethod resultMethod, XmlWriter writer) at PX.Web.UI.PXCallbackManager.GetCallbackResultInternal(PXCallbackResultMethod resultMethod) at PX.Web.UI.PXCallbackManager.GetCallbackResult(PXCallbackResultMethod resultMethod) at System.Web.UI.Page.RenderCallback() at System.Web.UI.Page.ProcessRequestMain(Boolean includeStagesBeforeAsyncPoint, Boolean includeStagesAfterAsyncPoint) at System.Web.UI.Page.ProcessRequest() at System.Web.UI.Page.ProcessRequest(HttpContext context)

[Show more](#)

PX.Data.PXException 2023-01-16 12:28:09 UTC
Error: A mapping that uses the current data source exists. The record cannot be deleted.

Figure: The Last Requests table

If there are no issues, the column is hidden.

Changes to the Table with Logged Information

The table with logged information contains the **All** tab, which displays all records from the **Messages** and **Exceptions** tabs for a particular request (see Item 1 in the screenshot below), and the **Expand All** button (Item 2), which toggles with the **Collapse All** button.

For long messages, only the first 20 rows are displayed; the administrator can view the entire message by clicking **Show More** (Item 3).

To copy a particular message, the administrator clicks the **Clipboard** button to the left of the needed message (Item 4). Alternatively, the administrator presses Ctrl+A or clicks the text three times to select it.

Last Requests Issues: 6 Issues: All Screen: All Type: All [SUBMIT LOGS](#)

Issues	Screen ID	Request Type	Command	Duration, ms	Time (UTC)
1	SM206015	Screen	Delete	368	12:28:09
	SM206015	Screen	Cancel	383	12:28:05
	SM206015	Screen	Refresh	88	12:28:04
	SM206015	Screen	DropDown	50	12:27:58
	~m/evn...	LongRun		19 332	12:27:54
	SM206025	Screen	HTML	2 238	12:27:54
	SM206025	Screen	ReloadPage	1 991	12:27:54
	SM206025	Screen	CopyPaste@...	426	12:27:47
5	~pagsis...	Screen	UploadFile	124	12:27:47
	SM206025	Screen	CopyPaste@...	35	12:27:41

User Name: admin.SDF-T Local Time: 2023-01-16 15:28:13
Version: 23.003.0207 UTC Time: 2023-01-16 12:28:13
Customizations: None

Requests

Screen ID: SM206015
Request Type: Screen
Start Time: 2023-01-16 12:28:09 UTC
Command: Delete
Company: T100
Keys: Name=Import/Export Customers.

Performance

Server Time, ms: 368
CPU Time, ms: 296
SQL Time, ms: 64
Wait Time, ms: 7
SQL Count: 29
SQL Rows: 27

ALL MESSAGES: 1 EXCEPTIONS: 4 SQL: 16 [EXPAND ALL](#)

1 **PX.Data.PXException** 2023-01-16 12:28:09 UTC

Exception Type: PX.Data.PXException

Message: Error: A mapping that uses the current data source exists. The record cannot be deleted.

2 **Stack Trace:**

3 **Show more**

4

5 **PX.Data.PXException** 2023-01-16 12:28:09 UTC

Error: A mapping that uses the current data source exists. The record cannot be deleted.

Figure: The table with logged information

System Administration: Using Past Data From Entities with Configured Business Events in Notification Templates

In Acumatica ERP 2023 R1, email, mobile, and task templates have been updated to support the use of past data from the previous state of the entities with configured business events in fields other than the body of the message. The previous value of a field can be used in notification templates if the data field is specified on the **Fields to Track** tab of the [Business Events](#) (SM302050) form for the business event.

For business events created for generic inquiry forms, users can select data from the previous state of the entity for which the business event was configured in the following boxes:

- In the **To**, **CC**, **BCC**, and **Subject** boxes of the [Email Templates](#) (SM204003) form for email templates
- In the **To** and **Title** boxes of the [Mobile Notifications](#) (SM204004) form for mobile push notification templates
- In the **To** box of the form [Mobile Notifications](#) (SM204004) for mobile SMS notification templates
- In the **Owner** and **Summary** boxes of the [Project Template Tasks](#) (PM208010) form for task templates

For business events created for data entry forms, users can select data from the previous state of the entity for which the business event was configured in the following boxes:

- In the **Subject** box of the [Email Templates](#) form for email templates
- In the **Title** box of the [Mobile Notifications](#) form for mobile push notification templates
- In the **Summary** box [Project Template Tasks](#) (PM208010) for task templates

Using Past Business Event Data in an Email Notification Template

A user can use past business event data in the **Subject** box of the [Email Templates](#) form for an email notification template for an existing business event. To do this, the user opens the [Business Events](#) (SM302050) form and selects the event to update. Then on the **Subscribers** tab (see Item 1 in the following screenshot), the user clicks **Create** **Subscriber** (Item 2) and then **Email Notification** (Item 3).

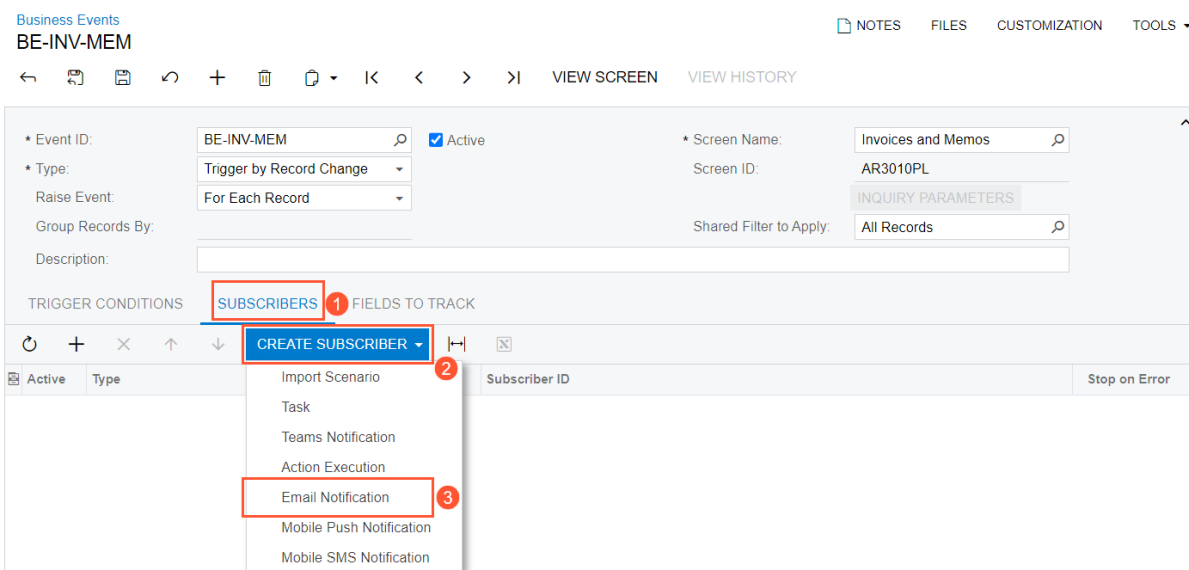




Figure: The Subscribers tab of the Business Events form


On the [Email Templates](#) form, which opens, the user clicks the magnifier button in the **Subject** box (see the following screenshot).


New Record


Notification ID: 


* Description:


Screen: **AR 30.10.PL - Invoices and Memos** 


From: 


To: 


CC: 

BCC: 

Subject: 

Link to Entity: 

Link to Contact: 

Link to Account: 

MESSAGE ATTACHED REPORTS










VISUAL   Paragraph **B** **I** U        INSERT LAYOUT TABLES

Figure: The Email Notifications form

In the lookup table, the user selects the data from the previous state of the business event to use in the **Subject** box of the [Email Templates](#) form for the email template (see the following screenshot).

New Record

Notification ID:

* Description:

Screen:

From:

To:

CC:

BCC:

Subject:

Link to Entity:

Link to Contact:

Link to Account:

MESSAGE

SELECT

- ARInvoice
- BAccountR
- [Previous] ARInvoice**
 - curyOrigDocAmt

Figure: Example of data available for use in the Subject box

The user then finishes configuring the email template, as described in [Email Templates](#).

Usability: Improved Delivery of Built-In Infotips

In previous versions of Acumatica ERP, context-sensitive Help infotips were introduced to give users an explanation of a UI element right on the spot. An infotip was a small pop-up window that described the UI element the user was hovering over.

The delivery of infotips in pop-up windows was confusing and inconvenient for the users for various reasons. In Acumatica ERP 2023 R1, the way of delivery has been changed to improve the usability of the functionality. Also, infotip coverage has been greatly increased throughout the system. For example, by popular request, infotips have been added to the [Enable/Disable Features](#) (CS100000) form.

Infotip Delivery

A user can view infotips for boxes, check boxes, and option buttons that appear on the tabs and in the areas of most Acumatica ERP forms, as well as for the columns of tables on forms. (See the *Infotip Limitations* section of this topic for details.) Users access the infotips for table columns slightly differently than they access the infotips for other elements, but in both cases, the infotip for an element is accessed by clicking a small question mark icon.

When a user hovers over the label of a box, check box, or option button for 0.5 seconds, the system displays the question mark icon next to the element, as the following screenshot shows.

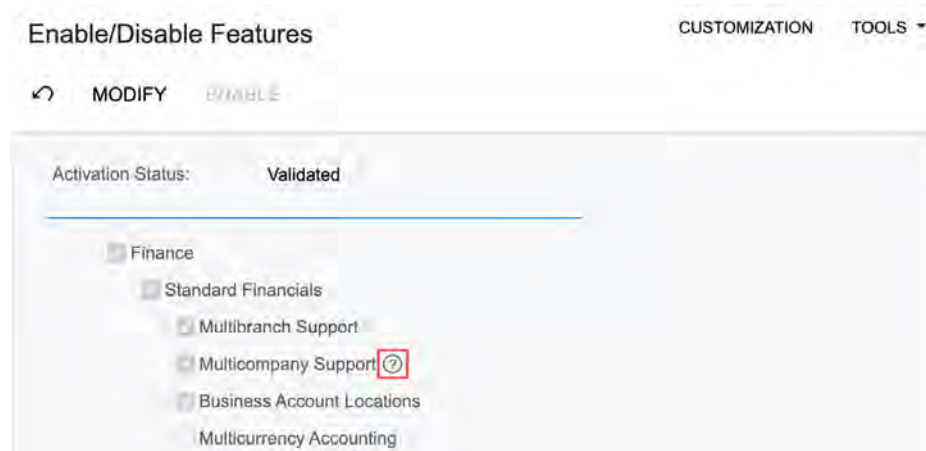


Figure: The question mark icon displayed next to the element

To view the infotip of a column of a table that appears on a form, the user first clicks the header of the table column. The question mark icon is displayed in the bottom left corner of the Sorting and Filtering Settings dialog box, which opens, as shown in the following screenshot.

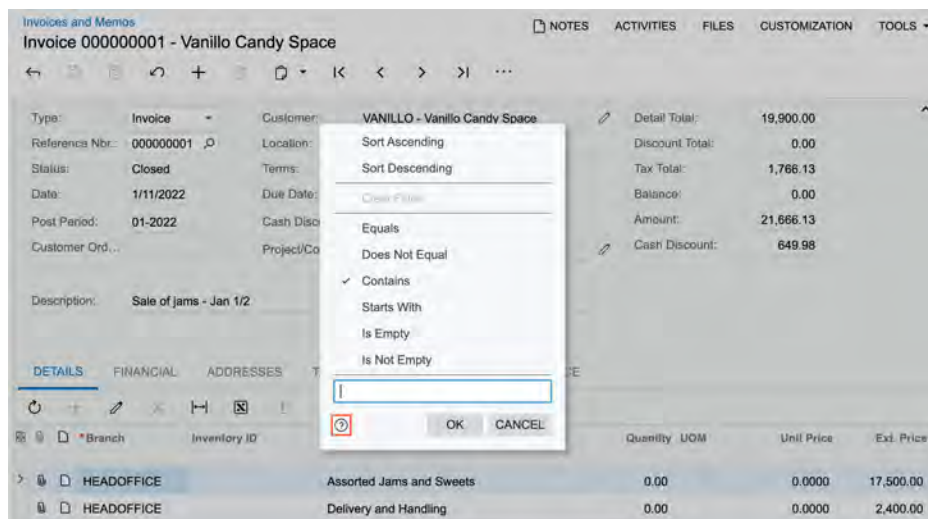


Figure: The question mark icon in the Sorting and Filtering Settings dialog box

The user clicks the question mark icon, and the system opens the infotip: a pane that partially overlaps the working area of the screen and contains the element's complete description. (See the screenshot below.)

If the user clicks the arrow in upper left corner of the pane (see Item 1 in the following screenshot), the system opens the Help menu for the form, which has a list of the links of the wiki articles that contain information regarding the form's functionality. For details about the Help menu, see [Help](#).

At the bottom of the pane, there is a link to the complete reference topic for the form (Item 2). If the user clicks the link, the system opens the corresponding help topic in a new browser tab.

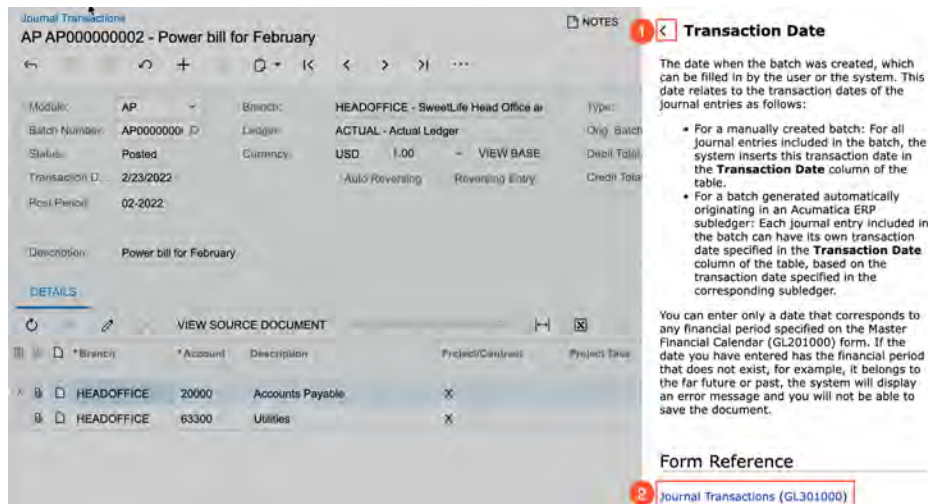


Figure: The element description on the panel

To close the pane (or the Help menu, if the user has switched to the menu) and return to the form, the user clicks anywhere on the form.

Other Changes Related to the Infotips

The configuration of displaying infotips that was available on the [User Profile](#) (SM203010) form has been dropped from the product. The question mark icon is displayed for all users, regardless of their access rights, when they hover over the label of a UI element or open the Sorting and Filtering Settings dialog box for a column header.

For the users who can open the **Element Properties** dialog box for an element, the element's description is no longer shown in the **Description** box. (That is, the box has been removed from the dialog box.)

Infotip Limitations

In Acumatica ERP 2023 R1, infotips are not shown for the following elements:

- The names of tabs on a form
- Elements on the form title bar, form toolbar, and table toolbar
- Commands displayed on the More menu
- Dialog boxes or elements within them

Also, infotips are not supported for Acumatica ERP generic inquiry forms, report forms, or ARM reports.

Application Code: Performance Improvements

In previous versions of Acumatica ERP, the overall performance of the product was affected by cache extensions that were used by processes of the services functional area integrated with other functional areas. These cache extensions stored the data in separate extension tables, causing unnecessary joins that increased the complexity of the queries used in the system, which slowed the performance of the application.

In Acumatica ERP 2023 R1, the performance of the product has been improved by moving the columns from the extension tables used by the services functional area to their parent tables that belong to other features or functional areas. More than 100 database columns across 19 extension tables have been moved to their parent table. The `SOID` column has been deleted from the `FSxPMTTimeActivity` table.

Upgrade Procedure

Due to the implemented changes, the extension tables have become obsolete. As a result, developers should revise all customizations, reports, and generic inquiries that were created in the customization projects and that contain references to the extension tables related to services (that is, tables with the *FS* prefix).

Moved Tables

The following table lists all the columns that have been moved to a different table, specifying the name of the original table and the name of the destination table.

DB Column Name	Renamed?	Previous FS Extension Table (Obsolete)	Current Table (Parent Table)
SDEnabled	No	FSxVendor	Vendor
IsDriver	No	FSxEPEmployee	EPEmployee
SDEnabled	No		
BillCustomerID	No	FSxCustomer	Customer
BillingCycleID	No		
BillLocationID	No		
BillShipmentSource	No		
DefaultBillingCustomerSource	No		
RequireCustomerSignature	No		
SendInvoicesTo	No		
BillCustomerID	No	FSxCustomerClass	CustomerClass
DefaultBillingCycleID	Yes(used to be FSxCustomerClass.DfltBillingCycleID)		

DB Column Name	Renamed?	Previous FS Extension Table (Obsolete)	Current Table (Parent Table)
BillLocationID	No		
BillShipmentSource	No		
DefaultBillingCustomerSource	No		
RequireCustomerSignature	No		
SendInvoicesTo	No		
SrvOrdType	No	FSxAPTran	APTran
ServiceOrderRefNbr	No		
ServiceOrderLineNbr	No		
AppointmentRefNbr	No		
AppointmentLineNbr	No		
RelatedDocNoteID	No		
RelatedEntityType	No		
SrvOrdType	No	FSxINTran	INTran
ServiceOrderRefNbr	No		
ServiceOrderLineNbr	No		
AppointmentRefNbr	No		
AppointmentLineNbr	No		
SrvOrdType	No	FSxSOLine	SOLine
ServiceOrderRefNbr	No		
ServiceOrderLineNbr	No		
AppointmentRefNbr	No		
AppointmentLineNbr	No		
ServiceContractRefNbr	No		
ServiceContractPeriodID	No		
Comment	No		

DB Column Name	Renamed?	Previous FS Extension Table (Obsolete)	Current Table (Parent Table)
EquipmentAction	No		
SMEquipmentID	No		
NewEquipmentLineNbr	No		
ComponentID	No		
EquipmentComponentLineNbr	No		
EquipmentItemClass	No		
SDPosted	No		
SDSelected	No		
AssignedEmpID	No	FSxSOOrder	SOOrder
Installed	No		
SDEnabled	No		
SLAETA	No		
SLAETAUTC	No		
ServiceOrderRefNbr	No		
SrvOrdType	No		
Installed	No	FSxSOShipment	SOShipment
AssignedEmpID	No	FSxCRCCase	CRCCase
BranchLocationID	No		
ProblemID	No		
SDEnabled	No		
ServiceOrderRefNbr	Yes(used to be FSxCR-Case.SOID)		
SrvOrdType	No		
BranchLocationID	No	FSxCROppportunity	CROppportunity
SDEnabled	No		
ServiceOrderRefNbr	Yes(used to be FSxCROppportunity.SOID)		

DB Column Name	Renamed?	Previous FS Extension Table (Obsolete)	Current Table (Parent Table)
SrvOrdType	No		
BillingRule	No	FSxCROpportunityProducts	CROpportunityProducts
EstimatedDuration	No		
VendorLocationID	No		
SDEnabled	No	FSxEPPosition	EPPosition
AllowSchedule	No	FSxEquipment	EPEquipment
BranchID	No		
BranchLocationID	No		
EmployeeID	No		
RoomID	No		
SiteID	No		
CompanyWarrantyType	Yes(used to be FSxEquipmentModel.CpnyWarrantyType)	FSxEquipmentModel	InventoryItem
CompanyWarrantyValue	Yes(used to be FSxEquipmentModel.CpnyWarrantyValue)		
EQEnabled	No		
EquipmentItemClass	No		
EquipmentTypeID	No		
ManufacturerID	No		
ManufacturerModelID	No		
ModelType	No		
VendorWarrantyType	No		
VendorWarrantyValue	No		
ActionType	No	FSxService	
BillingRule	No		
DfltEarningType	No		

DB Column Name	Renamed?	Previous FS Extension Table (Obsolete)	Current Table (Parent Table)	
EstimatedDuration	No			
IsTravellItem	No			
SDEnabled	No			
DefaultHasWarranty	Yes (previously FSxEquip-mentModelTemplate.D-fltHasWarranty)	FSxEquipmentModelTem-plate	INItemClass	
DefaultModelType	Yes (previously FSxEquip-mentModelTemplate.Dflt-ModelType)			
EQEnabled	No			
EquipmentItemClass	No			
DefaultBillingRule	Yes (previously FSxSer-viceClass.DfltBillingRule)	FSxServiceClass		
RequireRoute	No			
OldAppEmpID	No	FSxPMTTimeActivity	PMTTimeActivity	
AppointmentCustomerID	No			
AppointmentID	No			
LogLineNbr	No			
ServiceID	No			
SOID (this column was deleted)	N/A			
EnableFSIntegration	No	FSxSOOrderType	SOOrderType	
AskForSrvOrdTypeInCal-endars	No	FSxUserPreferences	UserPreferences	
DfltBranchLocationID	No			
DfltSrvOrdType	No			
Distance	No			
Interval	No			
TrackLocation	No			

Application Code: Update of RecordComesFirst Property of PXDBTimeStamp Attribute

In Acumatica ERP2023 R1, the `RecordComesFirst` property of `PXDBTimeStampAttribute` has been set to *true* for the following DACs of the Finance functional area:

- `APQuickCheck`, `APInvoice`, `APPayment`, and `APRegister` in the `PX.Objects.AP` namespace
- `ARCashSale`, `ARInvoice`, `ARPayment`, and `ARRegister` in the `PX.Objects.AR` namespace
- `Batch` in the `PX.Objects.GL` namespace

With this change, the record's own timestamp is preferred over the other timestamps (such as the graph timestamp and the timestamp that is stored in the `PXTimeStampScope.Persisted` collection of the current operation that is performed in a separate thread). Thus, when a single document is updated from multiple graphs, the record can be updated safely in the database without any data inconsistency issues.

Commerce Connector: API Changes

In Acumatica ERP 2023 R1, multiple changes have been made in the API of the Acumatica Commerce Framework. Developers who have created commerce connectors for previous versions of Acumatica ERP need to update the code of the connectors, as described in this topic.

Modified IProcessor Interface

The following methods have been added to the `IProcessor` interface:

- ```
List<(string fieldName, string fieldValue)> GetExternCustomFieldList(
 BEntity entity, ExternCustomFieldInfo customFieldInfo);
```

The system uses this method to obtain the list of external fields and their values. This list is displayed in the **External Field** column on the **Export Mapping** tab and the **External Field / Value** column on the **Import Mapping** tab of the [Entities](#) (BC202000) form.

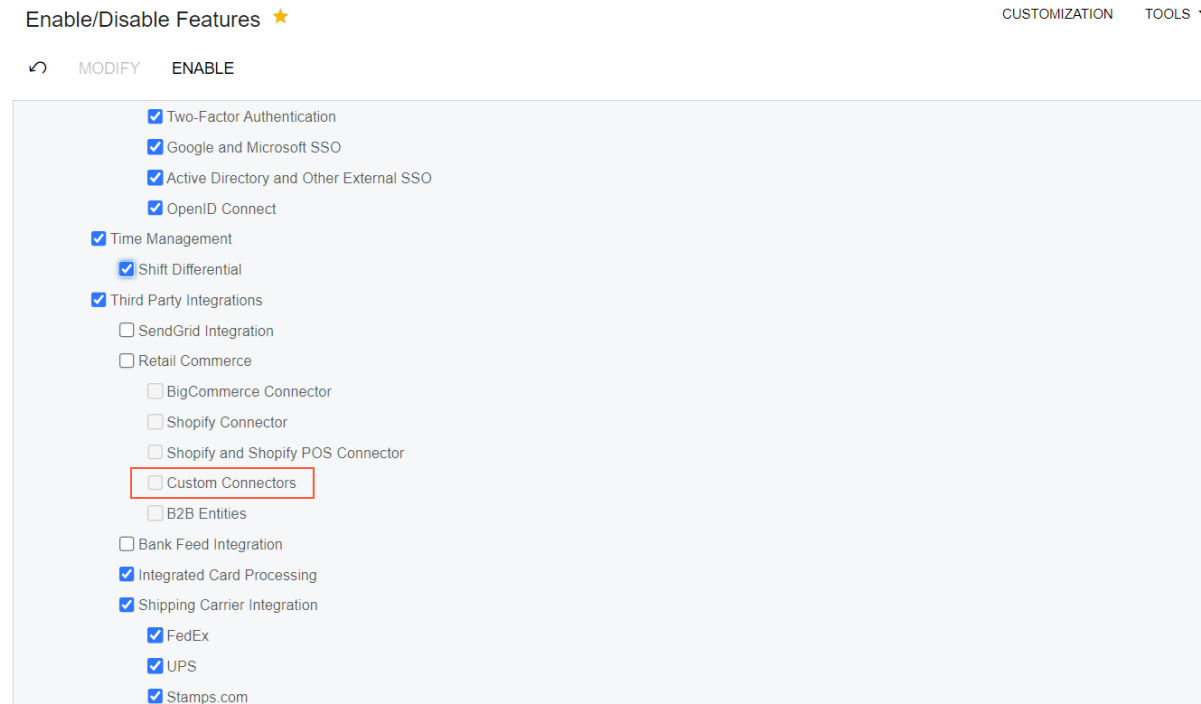
- ```
void ValidateExternCustomField(BEntity entity, ExternCustomFieldInfo
    customFieldInfo,
    string sourceObject, string sourceField, string targetObject,
    string targetField, EntityType direction);
```

The system uses this method to validate the custom field name or its value.

The signatures of the corresponding methods of the `<BCProcessorBase<TGraph, TEntityBucket, TPrimaryMapped>` abstract class have been modified accordingly. If these methods are implemented in custom processor classes, the developer needs to modify these implementations.

Commerce Connector: Availability of Custom Connectors in the License

In Acumatica ERP 2023 R1, the new *Custom Connectors* feature (in the **Retail Commerce** group of features under **Third Party Integrations**) is available on the [Enable/Disable Features](#) (CS100000) form, as shown in the following screenshot.



Enable/Disable Features ★

CUSTOMIZATION TOOLS ▾

↶ MODIFY ENABLE

- ☒ Two-Factor Authentication
- ☒ Google and Microsoft SSO
- ☒ Active Directory and Other External SSO
- ☒ OpenID Connect
- ☒ Time Management
 - ☒ Shift Differential
- ☒ Third Party Integrations
 - ☐ SendGrid Integration
 - ☐ Retail Commerce
 - ☐ BigCommerce Connector
 - ☐ Shopify Connector
 - ☐ Shopify and Shopify POS Connector
 - ☐ Custom Connectors
 - ☐ B2B Entities
 - ☐ Bank Feed Integration
- ☒ Integrated Card Processing
- ☒ Shipping Carrier Integration
 - ☒ FedEx
 - ☒ UPS
 - ☒ Stamps.com

Figure: The Custom Connectors feature

Custom connectors can be developed by using the Acumatica Commerce Framework, as described in [Implementing a Connector for an E-Commerce System](#). A user can view the type of the connector in the **Connector** column in the table on the [Entities](#) (BC202000) form.

If no license is applied to the instance, the user can work with up to five stores of each custom connector type on this instance.

If the *Custom Connectors* feature is not enabled on the [Enable/Disable Features](#) form of a licensed instance, no stores of custom commerce connector types can be used on this instance. If this feature is enabled, up to five stores of each custom connector type can be used on this instance. If more than five stores of a custom connector type are needed on the instance, the developer of the custom connector can contact Acumatica to convert the custom connector to a licensed connector, which gives users the ability to work with any number of stores.

Customization: Retrieval of a Customization Package Through the Web API

In Acumatica ERP, a developer can use the web API for manipulating customization projects from code, such as for deploying customization packages to local and remote instances of Acumatica ERP.

In Acumatica ERP 2023 R1, this web API has been expanded. Now the developer can also retrieve the content of a customization project from the database of an Acumatica ERP instance by using the web API. The developer may need to automate the retrieval of a customization package from the development environment for testing it in the testing environment.

Retrieval of a Customization Package

To retrieve the content of a customization project from the database of an Acumatica ERP instance, the developer uses the POST HTTP method and the following URL.

```
POST http(s)://<Acumatica ERP Instance URL>/CustomizationApi/getProject
```

In the `projectName` field of the request body, the developer specifies the name of the customization project whose contents should be obtained. The developer can also specify (in the `IsAutoResolveConflicts` field of the request body) whether the system should automatically update the customization project in the database with the changes from the file system if any files of the customization project have been modified in the file system.

In the response body of a successful request, the system returns the customization package in Base64 format. The `HasConflicts` field indicates whether the files of the customization project were modified in the file system before the customization package was obtained.

For details about the retrieval of a customization package through the web API, see [Customization Web API: getProject](#). For more information about the web API, see [Customization Web API: General Information](#).

Example of Request

The following request shows an example of retrieval of the contents of the *PhoneRepairShop* customization project with all the changes that are available in the file system.

```
POST /<Acumatica ERP Instance URL>/CustomizationApi/GetProject HTTP/1.1
Host: localhost
Accept: application/json
Content-Type: application/json
Content-Length: 79

{
  "IsAutoResolveConflicts": true,
  "projectName": "PhoneRepairShop"
}
```

If the response is 200 OK, it contains the body, which is shown in the following example.

```
{
  "projectContentBase64": "UESDBBQAAAAIAApRnlWbF8u...",
  "hasConflicts": false,
  "log": []
}
```


Customization: Support of Events Triggered by Field Changes in the UI

In previous versions of Acumatica ERP, developers could use events that were triggered by changes in the fields. Starting in Acumatica ERP 2023 R1, customizers can create, view, and modify these events in the Customization Project Editor.

Changes to the Event Handler Properties Dialog Box

The customizer works with the event handlers in the **Event Handler Properties** dialog box. This dialog box opens when the customizer clicks **Add New** on the page toolbar of the [Event Handlers](#) page, or clicks the link in the table on the same page.

In this dialog box, the **Event Type** box has been added (see Item 1 in the following screenshot). In this box, the customizer selects the type of event handler: *Triggered from Code* or *Triggered by Field Change*. If the customizer selects *Triggered from Code*, they need to specify the settings of the event in the **Event Source** and the **Event Name** boxes. If the customizer selects *Triggered by Field Change*, the **Field Name** box becomes available (Item 2). In this box, the customizer selects the check boxes for the field or fields whose modification should trigger the event (Item 3).

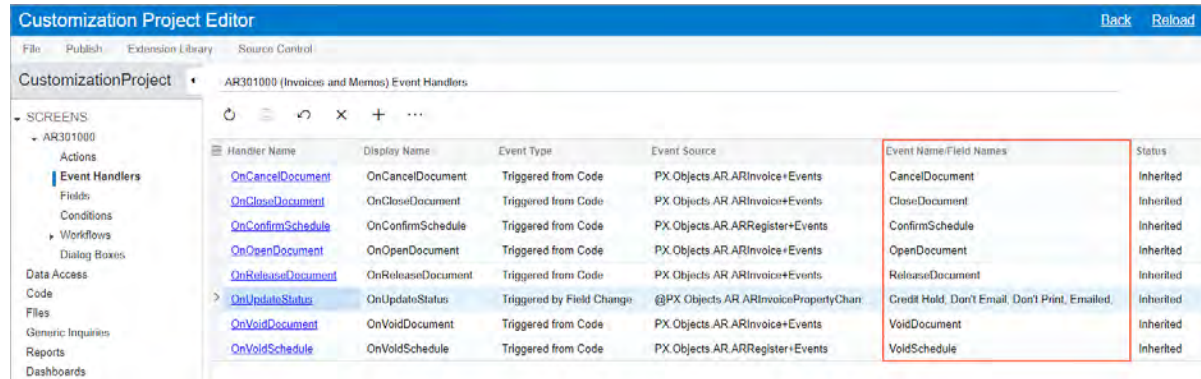
Figure: The new elements in the Event Properties dialog box

This functionality is supported for the fields of only the primary DACs. The customizer can specify the same fields for multiple event handlers.

For details, see [Configuring Event Handlers](#).

Changes to the Event Handlers Page

The table on the [Event Handlers](#) page of the Customization Project Editor now contains the **Event Name/Field Name** column, as shown in the following screenshot. This column contains the name of the fields (for events triggered by changes in the fields) or the name of the event (for events triggered from code).



Handler Name	Display Name	Event Type	Event Source	Event Name/Field Names	Status
OnCancelDocument	OnCancelDocument	Triggered from Code	PX.Objects.AR.ARInvoice+Events	CancelDocument	Inherited
OnCloseDocument	OnCloseDocument	Triggered from Code	PX.Objects.AR.ARInvoice+Events	CloseDocument	Inherited
OnConfirmSchedule	OnConfirmSchedule	Triggered from Code	PX.Objects.AR.ARRegister+Events	ConfirmSchedule	Inherited
OnOpenDocument	OnOpenDocument	Triggered from Code	PX.Objects.AR.ARInvoice+Events	OpenDocument	Inherited
OnReleaseDocument	OnReleaseDocument	Triggered from Code	PX.Objects.AR.ARInvoice+Events	ReleaseDocument	Inherited
OnUpdateStatus	OnUpdateStatus	Triggered by Field Change	@PX.Objects.AR.ARInvoicePropertyChan	Credit Hold, Don't Email, Don't Print, Emailed,	Inherited
OnVoidDocument	OnVoidDocument	Triggered from Code	PX.Objects.AR.ARInvoice+Events	VoidDocument	Inherited
OnVoidSchedule	OnVoidSchedule	Triggered from Code	PX.Objects.AR.ARRegister+Events	VoidSchedule	Inherited

Figure: The Event Name/Field Name column on the Event Handlers page

Developer Documentation: New Topics

In Acumatica ERP 2023 R1, a developer can find new and reworked information on the following subjects.

DAC Overview

The DAC Reference guide, which contained reference information about data access classes (DACs) and overview topics about the DACs of particular functional areas of Acumatica ERP, is no longer available. The overview topics are now available in the new [DAC Overview](#) guide.

For detailed descriptions of DACs and DAC fields, look for the needed DAC in the [DAC Schema Browser](#). (For details about the DAC Schema Browser, see [Data from Multiple DACs: DAC Schema Browser](#).)

Creation of Custom SMS Providers

In Acumatica ERP, a user can register a short message service (SMS) account from which the system will send text notifications. The Twilio and Amazon SMS providers are available by default. A developer can also define and register a custom SMS provider, as described in [Adding a Custom SMS Provider](#).

Webhooks in Commerce Connectors

Real-time import is now described in the commerce connector documentation. A developer can find more information in [Real-Time Synchronization Through Webhooks and Push Notifications](#) and [To Implement Webhooks for a Commerce Connector](#).

Cache Mapping

A developer can find information about how Acumatica Framework maps data access class (DAC) types to graph caches and how to modify the default mapping in [Cache Mapping](#).

New and Updated Examples in the Integration Development Guide

In the Integration Development Guide, for the following entities, REST API examples have been added or updated:

- Bill
 - [Approve a Bill](#)
- DeductionBenefitCode
 - [Create a Deduction Code](#)
- EarningTypeCode
 - [Create an Earning Type Code](#)
- EmployeePayrollClass
 - [Create an Employee Payroll Class](#)
- EmployeePayrollSettings
 - [Update the Employee Payroll Settings](#)
 - [Update Work Locations in the Employee Payroll Settings](#)
 - [Specify Employment Records in the Employee Payroll Settings](#)
- InventoryIssue
 - [Release an Inventory Issue](#)
- InventoryQuantityAvailable
 - [Retrieve the Available Quantity of an Inventory Item](#)

- PayGroup
 - [Create a Pay Group](#)
- Payment
 - [Create an Accounts Receivable Payment for an Invoice and a Sales Order](#)
 - [Release an Accounts Receivable Payment](#)
- PaymentMethod
 - [Create a Payment Method](#)
- PayPeriod
 - [Create a Pay Period Schedule](#)
- PayrollBatch
 - [Create a Payroll Batch](#)
- PayrollUnionLocal
 - [Create a Union](#)
- PayrollWCCCode
 - [Create a Workers' Compensation Class Code](#)
- PTOBank
 - [Create a PTO Bank](#)
- SalesInvoice
 - [Release a Sales Invoice](#)
- SalesOrder
 - [Apply Discounts to a Sales Order](#)
 - [Create a Sales Order with Tax Parameters Overridden](#)
 - [Create a Sales Order with Allocations](#)
 - [Retrieve a List of Sales Orders in Batches](#)
 - [Update the Detail Lines of a Sales Order](#)
- StockItem
 - [Add a Note to a Stock Item](#)
 - [Retrieve the Attachments of a Stock Item](#)
 - [Retrieve the List of Modified Stock Items](#)
- WorkCalendar
 - [Create a Work Calendar](#)
- WorkLocation
 - [Create a Work Location](#)

New Use Cases Section in the Customization Guide

A new section, [Use Cases](#), has been introduced in the Customization Guide. This section provides examples of the customization of the application code of Acumatica ERP. Currently, the section provides the following topics:

- [Calculating Field Values \(with PXFormula\)](#)
- [Adding a Field from Another DAC](#)
- [Displaying a Custom DAC in Acumatica Search](#)
- [Generating an Excel from Code](#)

Integration Development: New API for Webhooks

Acumatica ERP 2023 R1 introduces the new webhook API, which supports .Net Core.

Implementation of Webhooks with the New Interface

To configure the system to process data from an external application in Acumatica ERP with webhooks, a developer needs to perform the following general steps:

1. Create an implementation class that processes the requests from the external application. This class must implement the new `PX.Api.Webhooks.IWebhookHandler` interface, which has one method with the following signature.

```
Task HandleAsync(WebhookContext context, CancellationToken cancellation);
```



The `PX.Api.Webhooks.IWebhookHandler` interface is available in the `PX.Api.Webhooks.Abstractions.dll` assembly.

2. Register the webhook that is processed by the implementation class on the [Webhooks](#) (SM304000) form of Acumatica ERP.
3. Copy the URL that is generated during the registration of the implementation class, and then specify this URL in the external application so that it sends requests to this URL.
4. Test the processing of the requests. For details about the changes in the responses and logging, see [Changes to Webhook Responses](#) and [Changes to Webhook History](#) below.
5. Optional: Include the webhook implementation in a customization project.

For more information about the configuration of webhooks and an example of implementation, see [Configuring Webhooks](#) in the documentation.

Changes to Webhook Responses

In Acumatica ERP 2023 R1, if an error occurs during the processing of a webhook, the error is returned in JSON format, no matter which `Accept` header is submitted in the request.

Changes to Webhook History

On the **Request History** tab of the [Webhooks](#) (SM304000) form, the developer can review the webhook processing history. In Acumatica ERP 2023 R1, if the system can determine the encoding of the request body, the system tries to read the body as a string in this encoding and use the result for logging. (The system determines the encoding based on the `charset` parameter in the `Content-Type` header. If there's no `charset` parameter, the system tries to use the default encoding for the media type in `Content-Type`.)

Support of the Legacy Webhook Interface

If webhooks were configured on a site with a previous version of Acumatica ERP and the site has been updated to Acumatica ERP 2023 R1, the webhooks continue working.



In Acumatica ERP 2023 R2, the legacy webhook API (which includes `PX.Data.Webhooks.IWebhookHandler`) will be removed.

Platform API: Fluent BQL in Formulas

In Acumatica ERP 2023 R1, a developer can use new fluent business query language (BQL) operators in `PXFormula` attributes instead of `PX.Data.Parent<TField>` and `PX.Data.Selector<KeyField, ForeignOperand>`. The developer can also use fluent BQL to retrieve the value of a field from the setup record (that is, a record from a data access class that is used in a `PXSetup<Table>` data view). The following sections show examples of the use of the new fluent BQL operators for the retrieval of field values in `PXFormula`.

Field from the Parent Record

In the query of the `PXFormula` attribute, the developer can use the `FromParent` operator to obtain the value of a field from the parent record.

For example, suppose that in a previous version, the developer wrote the following query in `PXFormula` with traditional BQL.

```
[PXFormula(typeof(Where<Parent<SOShipment.shipmentType>,
    Equal<SOShipmentType.transfer>>)))]
```

To use the `Parent` operator in fluent BQL, the developer could wrap the operator in the `Use<>.As [Type]` operator, as the following code shows.

```
[PXFormula(typeof(Use<Parent<SOShipment.shipmentType>>.AsString.
    IsEqual<SOShipmentType.transfer>)))]
```

In Acumatica ERP 2023 R1, the developer can simplify the code in fluent BQL, as shown below.

```
[PXFormula(typeof(SOShipment.shipmentType.FromParent. IsEqual<SOShipmentType.transfer>)))]
```

Field from the Record Referenced by the PXSelector Attribute

In the query of the `PXFormula` attribute, the developer can use the `FromSelectorOf` operator to obtain the value of a field from the record that is referenced by the `PXSelector` attribute.

For example, suppose that in a previous version, the developer used traditional BQL to write the following query in `PXFormula`.

```
[PXFormula(typeof(Where<Selector<shipmentNbr, SOShipment.shipmentType>,
    Equal<SOShipmentType.transfer>>)))]
```

In fluent BQL, the `Selector` operator could be used as follows.

```
[PXFormula(typeof(Use<Selector<shipmentNbr, SOShipment.shipmentType>>.AsString.
    IsEqual<SOShipmentType.transfer>)))]
```

Now the developer can rewrite this code with fluent BQL in a simplified way, as shown in the following code.

```
[PXFormula(typeof(SOShipment.shipmentType.FromSelectorOf<shipmentNbr>.
    IsEqual<SOShipmentType.transfer>)))]
```

Field from the Setup Record

In the query of the `PXFormula` attribute, the developer can use the `FromSetup` operator to obtain the value of the field from the setup record, as the following code shows.

```
[PXFormula(typeof(SOSetup.autoReleaseIN.FromSetup.IsEqual<True>))]
```

Web Services: Operation with Archived Records

Acumatica ERP 2023 R1 introduces the ability to make records archived (see [Platform: Archiving Old Documents](#)). By default, these archived records are hidden. To work with archived records by using the contract-based REST API or OData Version 4, in a request, a developer must specify the `PX-ApiArchive` HTTP header with the `SHOW` value.

For example, the following OData 4 request retrieves both archived and non-archived shipments that were created after January 1, 2022.

```
GET /<Acumatica ERP instance name>/ODataV4/PX_Objects_SO_SOShipment?
    $filter=ShipDate gt 2022-01-01T00:00:00%2b03:00&$select=ShipmentNbr,ShipDate
    HTTP/1.1
Host: localhost
PX-ApiArchive: SHOW
```

If the `PX-ApiArchive` HTTP header is not specified, only non-archived shipments are retrieved.

Web Services: Retrieval of Values of Multilingual Fields in Available Languages

In Acumatica ERP 2023 R1, a developer can use the OData Version 3 interface and the OData Version 4 interface to retrieve the values of multilingual fields in any of the languages configured in the system.

Retrieval of Multilingual Fields

If an entity has multilingual fields, the developer can obtain the values of these fields in any available language. The developer can do this in either of the following ways:

- By using the `Accept-Language` HTTP header and specifying the desired locale as its value
- By using the `locale` URL parameter and specifying the desired locale as its value

If both the `Accept-Language` HTTP header and the `locale` URL parameter are used, the locale specified in the `locale` URL parameter is taken into account.

The following sample URL retrieves the *AACOMPUT01* inventory item with French values of multilingual fields by using the OData Version 4 interface: *https://localhost/AcumaticaERP/ODataV4/PX_Objects_IN_InventoryItem?locale=fr-FR&\$filter=InventoryCD eq 'AACOMPUT01'*. The use of the following request has the same effect.

```
GET /AcumaticaERP/ODataV4/PX_Objects_IN_InventoryItem?$filter=InventoryCD eq 'AACOMPUT01'  
HTTP/1.1  
Host: localhost  
Accept-Language: fr-FR
```

The following sample URL retrieves the *AACOMPUT01* inventory item with French values of multilingual fields by using the OData Version 3 interface and the *IN-StockItem* generic inquiry (which was exposed via OData before the URL was used): *https://localhost/AcumaticaERP/OData/IN-StockItem?locale=fr-FR&\$filter=InventoryID eq 'AACOMPUT01'&\$format=json*.

Web Services: Specification of Values of Multilingual Fields in Particular Languages

In Acumatica ERP 2023 R1, a developer can use the contract-based REST API to specify the values of multilingual fields in any of the languages configured in the system. If only some of the configured languages are used in a request, the field values in other languages remain unchanged.

Language in Which Values of Multilingual Fields Are Specified

In Acumatica ERP 2023 R1, for multilingual fields, the `value` field contains the value in the default language. (In previous versions, the field held the value in the current language.) This is true whether or not the value was specified with the `Translations` field.

Example of the Specification of Values of a Multilingual Field

Suppose that at least three languages (English, French, and Russian) are configured in the instance. The following example demonstrates how to specify the description of the stock item with the `8ecd4ca7-30d1-ec11-839d-085bd61190bc` ID in English, French, and Russian.

```
PUT ?$expand=Translations HTTP/1.1
Host: [<Acumatica ERP instance URL>]/entity/Default/22.200.001/StockItem
Accept: application/json
Content-Type: application/json

{
  "id": "8ecd4ca7-30d1-ec11-839d-085bd61190bc",
  ...
  "Description" : {
    "value": "new description in English",
    "Translations": {
      "fr": "nouvelle description en français",
      "ru": "новое описание на русском языке"
    }
  }
}
```

Usage Notes

The developer specifies the values of multilingual fields by using the `Translations` field, or in the `value` field in the following format: `[{language_code1:value1},{language_code2:value2},...]`. The developer cannot use both approaches simultaneously.

The `value` field contains the value in the default language. If the developer specifies a value in the corresponding `Translations/<default_language>` field, this value must be the same as the one in the `value` field; otherwise, an error will be generated when the request is executed.

Fixes and Enhancements

You can find fixes and minor enhancements introduced in Acumatica ERP 2023 R1 in the following document:

[*Acumatica ERP 2023 R1 Release Notes: Fixes and Enhancements.*](#)