Release Notes 2023 R2



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Software Version: 2023 R2 Last Updated: 09/14/2023

Introduction

This document provides important information about fixes, enhancements, and key features that are available in Acumatica ERP 2023 R2. 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 R2, in comparison to Version 2023 R1, 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 R2.

Supported Web Browsers for Acumatica ERP Workstations

Supported web browsers that can be used to work with Acumatica ERP 2023 R2 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 . cscfg files by using the Acumatica ERP Configuration Wizard

Therefore, in Acumatica ERP 2023 R2, an administrator cannot install Acumatica ERP by using the Azure Cloud Services (classic) deployment model.

To deploy the Acumatica ERP Service for 2023 R2 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 R2 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 R2 due to changes in Version 2023 R2.)

Prerequisite Steps

Before administrators install Acumatica ERP 2023 R2 or upgrade to it locally, they need to do the following:

- 1. Switch the Internet Information Services application pool where the Acumatica ERP 2023 R2 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 R2 instance will be installed.

Upgrade Path

The upgrade to Acumatica ERP 2023 R2 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
2023 R1	A direct upgrade to Acumatica ERP 2023 R2 is supported.
2022 R2	A direct upgrade to Acumatica ERP 2023 R2 is supported.
2022 R1	A direct upgrade to Acumatica ERP 2023 R2 is supported.
2021 R2	An incremental upgrade is required. The following steps must be performed in the listed order:
	1. Upgrade to the latest Version 2022 R1 X build available.
	2. Upgrade to Version 2023 R2.
2021 R1	An incremental upgrade is required. The following steps must be performed in the listed order:
	1. Upgrade to the latest Version 2022 R1 X build available.
	2. Upgrade to Version 2023 R2.

Acumatica ERP 2023 R2 can be upgraded from the following particular versions:

- 2023 R1 Update 7 (23.107.0022) and earlier
- 2022 R2 Update 15 (22.215.0056) and earlier
- 2022 R1 Update 22 (22.122.0019) and earlier

For the list of upgradable versions for later 2023 R2 updates, see the Release Notes for the particular 2023 R2 update.

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 R2 has been performed. The following sections describe these changes, as well as any actions that the administrator needs to take after the upgrade.

Inventory and Order Management

After the system upgrade, the **Ignore Automatic Line Discounts** check box will be selected on the *Sales Price Worksheets* (AR202010) and *Sales Prices* (AR202000) forms in the following lines:

- Lines with prices of the *Customer* type if in the previous version of Acumatica ERP, the **Customer** check box
 was cleared in **Apply Line Discount to Prices Specific To** on the **Pricing** tab of the *Accounts Receivable Preferences* (AR101000) form.
- Lines with prices of the *Customer Price Class* type if in the previous version of Acumatica ERP, the **Customer** check box was cleared in **Apply Line Discount to Prices Specific To** on the **Pricing** tab of the *Accounts Receivable Preferences* form.

If neither condition listed above was met for a line on the *Sales Price Worksheets* and *Sales Prices* forms, the **Ignore Automatic Line Discounts** check box will be cleared in the line after the upgrade.

Also, in the lines with **Fair Value** check box selected on the *Sales Price Worksheets* and *Sales Prices* forms, the **Ignore Automatic Line Discounts** check box will always be cleared.

On the **Details** tab of the *Sales Orders* (SO301000), *Invoices* (SO303000), and *Invoices and Memos* (AR301000) forms, the **Ignore Automatic Line Discounts** check box will be cleared after the upgrade.

For more information, see *Inventory and Order Management: Ability to Disable Automatic Line Discounts for Sales Prices*.

After the system upgrade, a user will be able to create a separate invoice for a sales order line with a non-stock item that does not require shipment if the sales order has a status other than *Completed* or *Canceled* on the *Sales Orders* form.

For more information, see Inventory and Order Management: Invoices for Non-Stock Items Not Requiring Shipment.

CRM

On the **Details** tab of the *Opportunities* (CR304000) and *Sales Quotes* (CR304500) forms, the **Ignore Automatic Line Discounts** check box will be cleared after the upgrade. For more information, see *CRM: Enhancements to the Recalculation of Discounts*. For all open opportunities and sales quotes, the system will also recalculate the values in the **Detail Total** and **Total** boxes in the Summary area of both forms.

Also, after the system upgrade, in the existing emails on the *Email Activity* (CR306015) form, the **In Response To** and **Parent Activity** boxes will be populated as follows:

- The **In Response To** box will contain a link to the email that previously was specified in the **Parent Activity** box.
- The **Parent Activity** box will contain a link to the parent task or event that the initial email is based on if the initial email was created on the *Task* (CR306020) or *Event* (CR306030) form.

For more information, see CRM: Association of an Email Activity with Its Parent Task or Event .

All the email accounts of the *Email Service Plug-In* type on the *Email Accounts* (SM204002) form will have the *Plug-In* type selected in the **Authentication Method** box of this form after the system upgrade.

Finance

After an upgrade to Acumatica ERP 2023 R2, the following changes will be applied in the system:

- If your organization was using the Acumatica Payments plug-in in Acumatica ERP 2023 R1, the Acumatica Payments feature will be enabled by default on the Enable/Disable Features (CS100000) form.
- On the Accounts Payable Preferences (AP101000) form, the Use Credit Terms in Debit Adjustments check box will be cleared. Users will be able to select and clear this check box at any time after the upgrade. (Data entry forms will support the processing of both types of debit adjustments—those with credit terms and those without credit terms.)

If the user selects the **Use Credit Terms in Debit Adjustments** check box on the *Accounts Payable Preferences* form after the upgrade, new debit adjustments will be created with credit terms by default. However, users will be able to clear the **Credit Terms** box on the *Bills and Adjustments* (AP301000) form for unreleased debit adjustments.

- During an upgrade of Acumatica ERP to 2023 R2, an upgrade script will update the **Unpaid Retainage** and **Paid Retainage** amounts on the **Retainage** tab of the *Invoices and Memos* (AR301000) form in documents that were created before the upgrade. These amounts will be recalculated according to the following formulas:
 - Unpaid Retainage = Unreleased Retainage + Balances of retainage documents
 - Paid Retainage = Original Retainage Unpaid Retainage
- In the Summary area of the *Bills and Adjustments* and *Invoices and Memos* forms, for documents with discounts, the system will recalculate the discounts and update the total amounts shown in the Line Discounts box. The Document Discounts box in the Summary area of the mentioned forms will show the amounts that were shown in the removed Discount Total box.

Retail Commerce

If a company is using a custom connector, after the upgrade, an administrator must make sure that the connector's customization project is updated to move the corresponding feature switch to the **Custom Connectors** group under **Advanced Integration Engine** on the *Enable/Disable Features* (CS100000) form.

For more information, see Retail Commerce: Changes to Feature Switches.

Projects and Construction

If your organization uses billing with direct AR invoices in projects and inclusive tax calculation is configured in the system, after the upgrade, an administrator should run the recalculation of project balances by doing either of the following:

- On the *Recalculate Project Balances* (PM504000) form, selecting the **Recalculate Inclusive Taxes** check box and clicking **Process** or **Process All** on the form toolbar to run the recalculation process for the selected projects or for all projects, respectively.
- On the *Projects* (PM301000) form, opening a project and clicking **Recalculate Project Balance** on the More menu to run the recalculation process for this particular project.

For more information, see Projects and Construction: Inclusive Taxes in Pro Forma Invoices and Project Quotes.

CRM: Assignment of Sales Territories to Leads, Contacts, Business Accounts, and Opportunities

Acumatica ERP 2023 R2 introduces the ability to assign sales territories to leads, contacts, business accounts, and opportunities. By using sales territories, a company can easily manage the process of distributing deals and contacts between different sales territories. This eases the process of analyzing the results of each sales territory and the effectiveness of each sales representative who is responsible for the sales territory.

In previous versions of Acumatica ERP, if a user needed to determine the responsible person to which a business account, lead, contact, or opportunity should be assigned based on its geographical location, multiple steps were involved. The user had to manually open the record and check the country or state (or their combination) or create an assignment map with complex settings that required additional labor.

Starting in Acumatica ERP 2023 R2, a user can configure the automatic assignment of a sales territory each time a user creates a new lead, contact, business account, or opportunity. This automatic assignment also occurs each time a user changes the country, the state, or both for an existing record. This improvement makes the process of assigning owners to new records easier and quicker, as well as the process of creating reports by sales territories.

To configure this functionality, a user has to create sales territories on the Sales Territories (CS204100) form and select each country or state that the territory encompasses.

To give users the ability to review all the created sales territories, the new *Sales Territories (CS2041PL)* list of records has been introduced.

Changes have been made to a variety of forms to support this functionality. For details about the *Sales Territories* and *Sales Territories* (*CS2041PL*) forms and the changes to other forms, see the following sections.

The Creation of a Sales Territory

On the Sales Territories (CS204100) form, a user can create a sales territory of one of the following types depending on the company's policies for defining sales territories:

- By Country
- By State
- Other

In the Summary area of the *Sales Territories* form, to create any sales territory, a user enters the sales territory ID (see Item 1 in the following screenshot) and territory name (Item 2). The user then selects or clears the **Active** check box (Item 3) to indicate whether the new sales territory will be active—that is, whether it appear in all **Sales Territory ID** lookup tables and can be selected. A new sales territory is active by default. An inactive sales territory cannot be selected in the **Sales Territory ID** box on any form.

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* Sales Territory ID:		• * Territory Type:	By State	~ ^
* Territory Name:	2 3 Z Active	* Country.	By Country By State	0
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State ID	State M	Name	Territory Name	

Figure: The Sales Territory form

The Sales Territories form is available if the Customer Management feature is enabled on the Enable/Disable Features (CS100000) form.

The layout of the form is slightly different depending on the type of sales territory that is selected in the **Territory Type** box of the Summary area (see Item 4 in the previous screenshot).

For the *By Country* territory type (see Item 1 in the following screenshot), the table (Item 2) shows the list of the countries that are defined in the system.

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		<u>AD</u>						Ando	orra					
		<u>AE</u>						Unite	ed Arab	Emirates				
		AE						Afgh	anistan					
		AG						Antig	gua and	Barbuda				
		AI						Angu	uilla					
		AL						Alba	nia					
		AM						Arme	enia					
		<u>AO</u>						Ango	ola					
		AQ						Anta	rctica					
		AR						Arge	ntina					

Figure: A sales territory consisting of countries

For the *By State* territory type (see Item 1 in the following screenshot), which is selected by default, a country must be selected in the **Country** box (Item 2). The table (Item 3) shows the list of states that are defined in the system for the country selected in the Summary area.

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	DC	;					D	ISTRICT	OF COLUMBIA				
	FL						FI	LORIDA					

Figure: A sales territory consisting of states of a country

For the *By Country* and *By State* types, the table shows the list of the countries or states that are defined on the *Countries/States* (CS204000) form. For details, see the section. The user selects the unlabeled check box for each country or state to be included in the sales territory. After the sales territory is saved, the selected countries or states are shown at the top of the table, and for each of them, the territory name is shown in the **Territory Name** column.

Each state or country can be included in only one sales territory. If a user selects at least one state or country that is included in another sales territory (that is, a different territory is already specified for it in the **Territory Name** column) and saves the record, the system displays a confirmation dialog box. A user can click one of the following buttons in the dialog box to proceed with the saving:

- **Update**: The system assigns all selected states or countries to the sales territory. If any selected state or country has previously been assigned to another sales territory, the system reassigns it to the new sales territory, removes it from the previous sales territory, and updates the value in the **Territory Name** column of the row to the new one.
- **Skip**: The system assigns to the sales territory only the selected states or countries that have not previously been assigned to another sales territory. For the selected states and countries that have previously been assigned to other sales territories, the unlabeled check box in the row is cleared and the values in the **Territory Name** column of the row are not changed.
- **Cancel**: The system does not apply or save any changes.

For Other territory type (see Item 1 in the following screenshot), the system shows an empty table (Item 2).

Sales Territories TERRITORY3 - Sales Territ	tory 3				1	NOTES	FILES	CUSTOMIZATION	TOOLS -
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* Sales Territory ID:	TERRITORY	′3	Q	Territory Type:	3	1	Other		~ ^
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2	Active	inserted manually records.	automatica y specify the	lly for a record. You o e territory in the need	can ded				

Figure: A sales territory with Other territory type

If a user selects this option, the system displays a warning message next to this box (Item 3 in the previous screenshot) indicating that a sales territory cannot be automatically assigned to a record.

A user can assign a sales territory with the *Other* territory type to a record only manually by selecting the **Override Territory** check box on the *Leads* (CR301000), *Business Accounts* (CR303000), *Contacts* (CR302000), or *Opportunities* (CR304000) form. For details, see the section.

If a sales territory is selected in at least one record—such as a lead, contact, business account, or opportunity a user cannot delete the sales territory. In this case, the system displays an error message. If the sales territory is not selected in any record, a user can delete it. In this case, the system removes the sales territory also from the *Countries/States* (CS204000) form.

The List of Sales Territories

In Acumatica ERP 2023 R2, the new *Sales Territories (CS2041PL)* list of records is introduced. In the list of records, a user can find a list of sales territories (see Item 1 in the following screenshot) that have been created on the *Sales Territories* (CS204100) form.

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80		Sales Territory ID	Territory Name	Territory Type	Country	Country Name	Active		
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0	D	TERRITORY2	Sales Territory 2	By State	<u>US</u>	United States of America	I		
0		TERRITORY3	Sales Territory 3	Other					
								-	

Figure: The Sales Territories generic inquiry form

For any row that a user clicks on the form, the side panel can display the *Sales Territories* (CS204100) form (Item 2 in the previous screenshot). (For more information about side panels, see *Side Panels on Forms*.)

The Sales Territories (CS2041PL) form is available if the Customer Management feature is enabled on the Enable/ Disable Features (CS100000) form.

Access Rights

A user has full access to the *Sales Territories* (CS204100) form and the *Sales Territories* (CS2041PL) list of records (that is, *Delete* access rights) if one of the following user roles has been assigned to the user account:

- Administrator
- AcumaticaSupport
- CR Sales & Marketing Admin
- CR Support Admin

A user has view-only access to the form and the list of records (that is, the user account has *View Only* access rights) if one of the following user roles has been assigned to the user account:

- CR Marketing Manager
- CR Sales Representative
- CR Support Representative
- CR Viewer

Enhancements on the Countries/States Form

Starting in Acumatica ERP 2023 R2, a user can assign countries and states of a country to a sales territory directly on the *Countries/States* (CS204000) form by using the following new UI elements that have been added on the form (see the following screenshot).

Countries/States			D 1	NOTES	FILES CUSTON	IZATION TO	OLS -
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* Country Name:	United States of Ameri	ica					
COUNTRY VALIDATION			POSTAL CODE				
Validation Mode:	By Country ID	~	Input Mask:		#####C####		
Validation Regexp:	(\bu\.?s) (u.?n.?i.?t.?e	.?d.?s.?t.?	Validation Regexp:		^([0-9]{5} [0-9]{5}-	-?[0-9]{4})\$	
STATE VALIDATION							
Validation Mode:	No Validation	~					
			•				
\heartsuit + × \mapsto \blacksquare		2	3				
🗄 🕕 🔺 State ID 🛛 State Na	me Sa ID	lles Territory	Territory Name	Valida	tion Regexp	Non-Taxable	
> 0 D AK ALASKA	A						-
	AN						
	SAS						
O D AS AMERIC	CAN SAMOA						
	IA II	ERRITORY2	Sales Territory 2				
CALIFC	RNIA						
	ADO <u>T</u> E	ERRITORY2	Sales Territory 2				
	CTICUT						

Figure: The updated Countries/States form

In the Summary area, the **Sales Territory ID** box (see Item 1 in the previous screenshot) has been added. In this box, a user can select a sales territory of the *By Country* type that has been created on the *Sales Territories* (CS204100) form to assign the country to the selected sales territory. If the sales territory was previously selected but has since been deactivated, the system shows a warning message next to the box indicating that the sales territory is inactive.

In the table, the **Sales Territory ID** column (Item 2) and the **Territory Name** column (Item 3) have been added. For a state of the selected country, in the **Sales Territory ID** column, a user can specify a sales territory of the *By State* type that has been created on the *Sales Territories* form for the selected country. In this case, the system fills in the **Territory Name** column automatically. The sales territory ID is also a link that a user can click to open the sales territory on the *Sales Territories* form in a pop-up window. If the sales territory was previously selected but has since been deactivated, the system shows a warning message next to the **Sales Territory ID** column indicating that the sales territory is inactive.

All the new UI elements on the *Countries/States* form are available if the *Customer Management* feature is enabled on the *Enable/Disable Features* (CS100000) form.

Enhancements to the Leads, Contacts, Business Account, and Opportunities Forms

After sales territories have been created on the *Sales Territories* (CS204100) form, the system can assign the appropriate sales territory to a new lead, contact, business account, or opportunity during its creation on the appropriate data entry form based on the country and state specified in the address settings of the record. If a user changes the country or state for an existing record, the sales territory will also be defined automatically.

On the *Leads* (CR301000), *Business Accounts* (CR303000), *Contacts* (CR302000), and *Opportunities* (CR304000) forms, new UI elements related to the sales territory functionality have been added, as shown in the following screenshot (which uses the example of a lead). The remaining text in this section describes how the functionality works for a lead; it works similarly for a business account, contact, or opportunity.

Leads Bruce Ward - Store	National				S FILES C	CUSTOMIZATION	TOOLS -
< ₽ ₽ ₽	+ 🗓 🗘 🗸	<	>I OPEN ····				
DOCUMENT USER	DEFINED FIELDS						
Lead ID:	Bruce Ward	Q	Contact:	Bruce Ward		P 0	^
Status:	New		Business Account:			P 0	
* Reason:	Created ~		Owner:			Q	
Description:			Source:	Other		~	
			Source Campaign:			Q	
		11	Duplicate:	Validated			
CONTACT INFO AC	TIVITIES CRM INFO	ATTRIBUTES	RELATIONS CAMPA	NGNS MARK	ETING LISTS	OPPORTUNITIES	3
CRM			CONTA	ACT PREFERENC	ES		
Lead Class:	STORE - Supermarkets, sto	ores, groce P	Conta	act Method:	Any		~
Workgroup:		Q			Do Not Call	No Marke	ting
U	Override Territory				Do Not Emai	il 🔄 No Mass	Mail
2 Sales Territory ID:	TERRITORY 1 - Sales Terri	tory 1					
Ext Ref Nbr:							
	Active						
ACTIVITIES							
Last Incoming Activity:							
Last Outgoing Activity:							

Figure: The Sales Territory functionality on the Leads form

The state of the new **Override Territory** check box (see Item 1 in the previous screenshot) determines how the system works with the sales territories:

- If the check box is cleared (the default state), the system assigns the sales territory to the lead automatically based on the state and country of the lead each time one of the following has happened:
 - A new record of the lead has been created.
 - The state or country for the lead has been changed.
 - This check box for the lead was previously selected and is then cleared.

In this case, the state of the check box and the selected sales territory is not copied by the system to the target contact, business account, or opportunity that is created based on the lead.

• If the check box is selected, the sales territory can be selected only manually; it is not updated automatically based on the state and country of the lead. If a contact, business account, or opportunity is created based on this lead, the system copies the state of the check box and the selected sales territory to the target contact, business account, or opportunity that is created based on the lead.

The new **Sales Territory ID** box (Item 2) contains the identifier of the sales territory assigned to the lead. This box is available for editing only if the **Override Territory** check box is selected. If the sales territory was previously selected but has since been deactivated, the system shows a warning message next to the box. If the **Override Territory** check box has been cleared and no active sales territory has been found based on the state or country of the lead, the system removes the previously set sales territory.

The **Override Territory** and **Sales Territory ID** columns have also been added to the *Leads* (*CR3010PL*), *Contacts* (*CR3020PL*), *Business Accounts* (*CR3030PL*), and *Opportunities* (*CR3040PL*) lists of records.

Other Improvements Related to Sales Territories

Starting in Acumatica ERP 2023 R2, the **Sales Territory ID** box has been added to the list of the available matching fields on the *Duplicate Validation* (CR103000) form.

Also, **Sales Territory ID** has been added to the list of the available columns on the **Duplicates** tab of the *Leads* (CR301000), *Business Accounts* (CR303000), *Contacts* (CR302000), and *Opportunities* (CR304000) forms. If during the duplicate merging process, both records have the **Override Territory** check box selected and different sales territories selected in the **Sales Territories ID** box, the system shows these sales territories in the **Merge Conflicts** dialog box. If at least one of the records does not have the **Override Territory** check box selected, the system does not show the sales territories in the **Merge Conflicts** dialog box and uses the sales territory settings from the selected target record.

A user can also use the sales territory ID as a setting on the **Conditions** tab of the *Assignment Maps* (EP205010) form, based on which the assignment of leads, contacts, business accounts, or opportunities to owners proceeds in the following cases:

- The creation of new records if the *Assignment Map* option is selected in the **Default Owner** box for the appropriate class of leads, contacts, business accounts, or opportunities.
- Mass-assignment of records to owners by using the following mass-processing forms: Assign Leads (CR503010), Assign Contacts (CR503011), Assign Business Accounts (CR503310), and Assign Opportunities (CR503110).

Additional Information

For more information about the creation and usage of sales territories, see *Leads: General Information*, *Contacts: General Information*, *Leads: General Information*, and *Opportunities: General Information*.

CRM: Enhancement to Duplicate Validation by Email

Previously, if multiple email addresses were specified for leads, contacts, or business accounts, the validation of records for duplicates by the *Email* field did not work properly.

In Acumatica ERP 2023 R2, modifications have been made to the *Duplicate Validation* (CR103000) form to resolve this issue. In the **Transformation Rule** drop-down list for the *Email* matching field, the *Split Words* option has been replaced with the *Split Email Addresses* option, as shown in the following screenshot.

Duplicate Validation											🗋 NOTES
Comparison		RU	LES	OF COMP	ARISON						
Lead to Contact		Validation Score Threshold:			5.00		5.00				
E Lead to Account					Validate on Entry						
E Contact to Contact		ð	_	⊢ x	Â	ŕ	l↔l	X	Ŷ		
E Contact to Lead		0			ها	ш	1.4	-	<u> </u>		
E Contact to Account	8	0		Matching	Field				Score Weight	Transformation Rule	Create on
E Account to Account											Entry
		0	Δ	Last Nam	1e				1.0000	None	Allow
		0		First Nan	ne				1.0000	None	Allow
		0		Account	Name				1.0000	Split Words	Allow
	2	0	D	Email					5.0000	Split Email Addresses	∼ ′arn
		0		Phone 1					0.5000	Domain Name	low
		0		Web					0.5000	Split Email Addresses	low

Figure: Updated set of transformation rules for email addresses

Out of the box, the *Split Email Addresses* transformation rule treats only the semicolon symbol as a delimiter, because this symbol is typically used for separating one email address from another. This transformation rule is available only for the *Email* field.

When the *Split Email Addresses* transformation rule is applied, if the record that the system is validating has multiple email addresses specified and at least one email address from this list has a duplicate email address found in another record, the record is assigned the score specified in the **Score Weight** column for the *Email* field.

If the *Domain Name* transformation rule is selected for the *Email* field, the system displays a warning message next to the selected option saying that this transformation rule may cause inaccurate results of elimination of duplicate records if the most common email domains, such as *gmail.com* or *outlook.com*, are used in email addresses.

CRM: Association of an Email Activity with Its Parent Task or Event

Previously, if a customer responded to an email that was originally created on the **Activities** tab of the *Task* (CR306020) or *Event* (CR306030) form, the system did not associate that response email with the original task or event of the initial email.

In Acumatica ERP 2023 R2, the incoming and outgoing emails have been associated with the parent activity (task or event) of the initial email for which the response email has been created.

Changes on the Email Activity Form

To reflect the enhancements, on the **Details** tab of the *Email Activity* (CR306015) form, the following changes have been made:

- The **In Response To** box has been added (see Item 1 in the following screenshot). The read-only box contains a link to the initial email to which the current email was responding. A user can click the link and open the email on the *Email Activity* form.
- The **Parent** box has been renamed to the **Parent Activity** box (Item 2). The read-only box contains a link to the parent activity (task or event) that the initial email is based on. A user can click the link to open the parent activity of the initial email on the *Task* (CR306020) or *Event* (CR306030) form.

Email Activ	vity			🗋 NOTES		FILES	CUSTOMIZATION	TOOLS -
	\$	REPLY ALL REPLY						
From:	"Simps	on Mill" <simpsonmill.abcstudios@gmail.< th=""><th>com></th><th>Contact Contact:</th><th>m></th><th>Simpso</th><th>n. Mill</th><th></th></simpsonmill.abcstudios@gmail.<>	com>	Contact Contact:	m>	Simpso	n. Mill	
To:	testadmin@acumqa.onmicrosoft.com		Job Title:		Manager			
CC:				Account Nam Email:		e: ABC S simpso	tudios Inc. nmill.abcstudios@gr	nail.com
Subject:	Re: Off	fer the discount for the juicer		Туре:		Contac	t	
casjoot.	110. 01							
MESSAGE	DET	AILS						
Date:		6/20/2023 9:25 AM						
		Incoming						
		🗹 Internal						
Workgroup			Q		Q			
Owner:		Chubb, David	Q		Q			
In Respons	se To:	Offer the discount for the juicer						
Related En	tity Type:	Contact	~		~			
Related En	tity:	Simpson, Mill	Q		<u>۵</u>			
Parent Acti	vity:	Offer the discount to the juicer			2			
Mail Status		Processed			_			

Figure: The changes on the Email Activities form

If a user creates an initial outgoing email by clicking **Create Email** on the table toolbar of the *Task* or *Event* form, the system does the following on the *Email Activity* form (as shown in the following screenshot):

- Keeps the In Response To box empty
- Fills the Parent Activity box with a link to the parent task or event

Email Activ	/ity				🗋 NOTES	FILES CUSTOMIZATION TOOLS -
	∽ Î	REPLY ALL REPLY ····				
From:	Acumatica	Sales			Contact	Circuit A Cill
To:	"Simpson,	Mill"			Job Title:	Simpson, Mill Manager
CC:					Account Name:	ABC Studios Inc.
BCC:					Email:	simpsonmill.abcstudios@gmail.com
Subject:	Offer the d	iscount to the juicer			Type:	Contact
MESSAGE	DETAILS	3				
Date:		6/20/2023 9:08 AM		Track Time and Costs		
		🔽 Internal				
Workgroup						
Owner:		Chubb, David				
In Respons	e To:					
Related En	tity Type:	Contact ~				
Related En	tity:	Simpson, Mill	o C			
Parent Activ	vity:	Offer the discount to the juicer				
Mail Status	:	Processed				

Figure: The initial email associated with the parent activity

If a user creates an outgoing email in response to the incoming email by clicking **Reply**, **Reply All**, or **Forward** on the form toolbar of the *Email Activity* form, the system does the following:

- Fills the In Response To box with a link to the incoming email
- Fills the **Parent Activity** box with a link to the parent activity (the event or task) from the incoming email (if any)

If the **Parent Activity** box is filled in, the system lists all the outgoing and incoming emails on the **Activities** tab of the appropriate form for the task or event (as shown in the following screenshot), with links to each email.

今 二 の + の ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	
DETAILS ACTIVITIES	
Č × CREATE TASK CREATE EMAIL CREATE ACTIVITY ▼ ↔ 🗵 All Records	• 7
🖹 🖟 🗅 🗸 ! Type * Summary Status Start Date	Created At
Image: Second	6/20/2023 9:27 AM
Image: Construction of the second for the s	6/20/2023 9:24 AM

Figure: The Activities tab of the Task form

If a user creates an outgoing email by clicking **New Email Activity** in a workspace, the **In Response To** and **Parent Activity** boxes of the *Email Activity* form remain empty.

Upgrade Notes

After the system upgrade, in the existing emails on the *Email Activity* form, the **In Response To** and **Parent Activity** boxes will be populated as follows:

• The **In Response To** box will contain a link to the email that previously was specified in the **Parent Activity** box.

• The **Parent Activity** box will contain a link to the parent task or event that the initial email is based on if the initial email was created on the *Task* (CR306020) or *Event* (CR306030) form.

Additional Information

For more information about the association of an email activity with its parent event or task, see *Emails and Activities: Emails*.

CRM: Enhancements to the Recalculation of Discounts

Previously, if a user recalculated discounts for an opportunity or sales quote, the system applied the specified discounts to all types of prices, including promotional prices.

In Acumatica ERP 2023 R2, the system excludes from discount recalculation each line with an item price for which discounts should not be applied automatically.

Changes on the Opportunities and Sales Quotes Forms

On the **Details** tab of the *Opportunities* (CR304000) and *Sales Quotes* (CR304500) forms, the **Ignore Automatic Line Discounts** check box has been added (as shown in the following screenshot, which shows an opportunity). If it is selected, automatic line discounts are not applied to this line. If it is cleared, these discounts are applied.

The check box is hidden by default; a user can select the column for display in the **Column Configurator** dialog box if the *Customer Discounts* feature is enabled on the *Enable/Disable Features* (CS100000) form.

Opportunities 000012 - Sale of ba	nana jam to Allen	l's Bakery					NOTES	FILES CUSTO	OMIZATION	TOOLS -
< Ω 🗋 ν	+ 0 - 1) I< <	> >I C	OPEN CREATE	QUOTE ···					
Opportunity ID:	000012	Q	Business /	Account: AB	AKERY - Allen's Bak	ery O	0		Manual A	Amount ^
Status:	New		Location:	MA	IN - Primary Location	n , p	0 De	etail Total:	21	5.00
* Class ID:	PRODUCT - Product S	Sales 🔎	Contact:	Be	verly Hail	Q	0 Lin	ne Discounts:		0.00
Stage:	Prospect	~	Owner:	Bil	Owen	Q	Do	cument Discounts:		0.00
* Estimated Close Date:	5/17/2024						Ta	x Total:		0.00
* Subject:	Sale of banana jam to	Allen's Bakery					Tot	tal:	21	5.00
ACTIVITIES DETAILS QUOTES CONTACT CRM INFO FINANCIAL SHIPPING ATTRIBUTES RELATIONS TAXES DISCOUNTS										
🗟 🕕 🗋 Inventory ID	Description	Free Warehouse	Quantity	UOM L	nit Ext. Price	Ignore	Discount, %	Discount	Amount	Manual
	·	ltem		PI	ice	Automatic Line Discounts		Amount		Discount
> 0 D <u>BANJAM96</u>	Banana jam 96 oz	RETAIL	5.00	PIECE 43.00	00 215.00		0.000000	0.0000	215.00	

Figure: The Ignore Automatic Line Discounts check box

On the **Details** tab of these forms, the **Ignore Automatic Line Discounts** check box is read-only. The default state of the check box depends on the type of the price and is copied by the system from the state of the new **Ignore Automatic Line Discounts** check box for the price on the *Sales Prices* (AR202000) form. If the state of the **Ignore Automatic Line Discounts** check box for the price has been changed on the *Sales Prices* form after the line with the price has been added to the opportunity or sales quote, the state of the **Ignore Automatic Line Discounts** check box for the price has been not be the **Ignore Automatic Line Discounts** check box for the price has been added to the opportunity or sales quote, the state of the **Ignore Automatic Line Discounts** check box for the line in the opportunity or sales quote does not change.

If a user clicks **Recalculate Prices** on the More menu of the *Opportunities* or *Sales Quotes* form, the system may update the state of the **Ignore Automatic Line Discounts** check box for the line according to the current state of the **Ignore Automatic Line Discounts** check box on the *Sales Prices* form. For details about changes on the *Sales Prices* form, see *Inventory and Order Management: Ability to Disable Automatic Line Discounts for Sales Prices*.

If a user changes the price in the **Unit Price** column of the opportunity or sales quote manually, the **Ignore Automatic Line Discounts** check box for the line becomes cleared (if it was selected before). In this case, if a user recalculates discounts for the opportunity or sales quote, the automatic line discounts will be applied to the line with the manually changed price.

If the **Ignore Automatic Line Discounts** check box is selected for a line in the opportunity or sales quote, a user can apply a manual discount as a sum or as a percentage to the line.

Changes in the Recalculation of Discounts

When a user clicks the **Recalculate Prices** command on the More menu of the *Opportunities* (CR304000) or *Sales Quotes* (CR304500) form, the **Recalculate Prices** dialog box opens. Discounts will be applied to or removed from a line on the form as follows:

- The automatic line discounts will be removed from a line on any of the aforementioned forms if both of the following conditions are met:
 - The price of the item in the line of the form has been changed on the *Sales Prices* (AR202000) form to a price that is skipped from the recalculation discount process (that is, the **Ignore Automatic Line Discounts** check box has been selected).
 - In the Recalculate Prices dialog box, the Set Current Unit Prices check box is selected.
- The automatic line discounts will be applied to a line on any of these forms if both of the following conditions are met:
 - The price of the item in the line of the form has been changed on the *Sales Prices* form from a price that is skipped in the discount calculation to a price that is included in the recalculation discount process (that is, the **Ignore Automatic Line Discounts** check box has been cleared).
 - In the **Recalculate Prices** dialog box, the **Set Current Unit Prices** check box is selected.
- The system will recalculate and apply only the discounts for a line (that is, the prices will remain the same) on the *Opportunities* or *Sales Quotes* form if both of the following conditions are met:
 - In the **Recalculate Prices** dialog box, the **Set Current Unit Prices** check box is cleared and the **Recalculate Discounts** check box is selected.
 - The Ignore Automatic Line Discounts check box is cleared in the line.
- The system will remove the manual discount for a line on the *Opportunities* or *Sales Quotes* form if both of the following conditions are met:
 - In the **Recalculate Prices** dialog box, the **Recalculate Discounts** and **Override Manual Line Discounts** check boxes are selected.
 - The Ignore Automatic Line Discounts check box is selected in the line.

Upgrade Notes

On the **Details** tab of the *Opportunities* (CR304000) and *Sales Quotes* (CR304500) forms, the **Ignore Automatic Line Discounts** check box will be cleared after the upgrade.

CRM: Auto-Creation of Leads and Contacts During File Upload to Marketing Lists and Campaigns

Previously, if a user wanted to upload new members to a marketing list or campaign while creating new leads or contacts in the system, this could be done only by using an import scenario, which took too much effort.

In Acumatica ERP 2023 R2, a user can upload new members to a marketing list or campaign by clicking **Load Records from File** on one of the following tabs:

- The List Members tab of the Marketing Lists (CR204000) form
- The Members tab of the Marketing Campaigns (CR202000) form

During this uploading, a new contact or lead can be created if no existing entity with the same member name is found in the system.

Enhanced Importing of Records

To add new members from an Excel file to the *Marketing Campaigns* (CR202000) or *Marketing Lists* (CR204000) form, a user clicks **Load Records from File** on the table toolbar of the **List Members** or **Members** tab, respectively. The user should map Member Name (the value in the **Member Name** column on either form) to the full name of the record being uploaded. The system can find the existing record in the system and add it as a new member to the marketing list or campaign instead of creating a new record.

With the enhanced capabilities to load records to the marketing list and marketing campaigns, after a user clicks **Load Records from File** on the *Marketing Lists* or *Marketing Campaigns* form and uploads the file, the user now does the following:

1. In the **Common Settings** dialog box (which opens), makes any needed changes to the default settings for the imported file. In the **Mode** box, the *Bypass Existing* option is selected by default and read-only.

This option means that the system adds to the list only records that were not present in the table.

- 2. Clicks OK, which causes the system to open the Columns dialog box.
- 3. In the dialog box, matches the columns in the uploaded file (which are listed in the **Column Name** column) to the columns in the table listing members on the *Marketing Campaigns* or *Marketing Lists* form (which are listed in the **Property Name** column). The column mapping is described below.

In the **Property Name** column, if the system finds a system field with the same name as the column in the Excel file, it inserts the field as the default value (which can be overridden). The user can select a field from the drop-down list for the column that contains all the system fields of the Contact data access class (DAC) or the Address DAC.

For the system to create a new lead or contact, the following mapping must be done:

- The Type field of the Contact DAC must be mapped to the column in the Excel file that contains the type of the record. Based on the value in this column in the Excel file, the system creates a new record in the system as follows:
 - If the column contains *Lead*, the system creates a new lead.
 - If the column is empty or contains Contact, the system creates a new contact.
- For the system to create a new lead, the Last Name or Account Name field of the Contact DAC must be mapped with a column in the Excel file that contains the same value.
- For the system to create a new contact, the Last Name field of the Contact DAC must be mapped with a column in the Excel file that contains the same value.

If a newly created record has a related business account specified in the file, the **Override** check box is selected for the contact and address information of the record on the *Contacts* (CR302000) or *Leads* (CR301000) form.

If a user specifies either their own locale or a translated box value, or both of these, the system also processes the new records and creates a lead or contact in the system with the **Language/Locale** box filled in on the *Contacts* or *Leads* form.

Creation of Leads and Contacts During Uploading

On the *Marketing Campaigns* (CR202000) or *Marketing Lists* (CR204000) form, when a user has used **Load Records from File** to map the fields in the **Columns** dialog box and clicked **OK**, the system imports the data. During the import, compares the full name of each record from the Excel file with the display name of the leads and contacts in the system and the account names of the business accounts in the system. The system then proceeds as follows:

- 1. If the system finds an existing record in the system, it adds this record to the marketing list or campaign as a new member without creating a new record.
- 2. If no existing records are found and mapping has been set up for new record creation, the system starts creating a new record. During the creation of the new record, the system may find a possible duplicate record in the system. (This search is more thorough than the search of the names of leads, contacts, and accounts, so a possible duplicate may be found even though the names did not match.) If a possible duplicate is found, then depending on the selected value in the **Create on Entry** column for the matching field on the *Duplicate Validation* (CR103000) form for this pair of records, the following happens:
 - If the *Block* option is selected, the system does not create a new record and does not add a new member to the marketing list or campaign; it proceeds to the next record in the Excel file.
 - If the *Warn* or *Allow* option is selected, a new record is created and added to the marketing list or campaign.

The progress of the record processing is shown in the **Processing** dialog box as follows:

• If an existing or newly created record has been added to the list of members on the *Marketing Campaigns* (CR202000) and *Marketing Lists* (CR204000) form, the system adds the record to the **Processed** tab of the dialog box and shows the following message (see the following screenshot).

Marketing Lists UPLOADING MEMBE - Uploading members	Processing	
す 20 10 う 十 10 ス < >	Processing completed with errors, 00:00:03 Elapsed	
Marketing List ID: UPLOADING MEMBE Ust Name: Uploading members List Type Static	1 1 0 at Processed A Processed A Table Marrings A Table A Table A Table A	
LIST MEMBERS USED IN CAMPAIGNS		
O + X ADD MEMBERS + MANAGE SUBS	HH 10 LI Status Message	-
🗄 🗌 Subscribe Type Member Name	Processed lests lests has been added to the list	Em
Contact Test3 Test3		
	10 E S	24
	QLOSE	

Figure: Message indicating that the record has been processed successfully

• If a new record has not been created, the system adds the record to the **Errors** tab of the dialog box and shows the following message (see the following screenshot).

Processing					
Processing completed	d with errors, 00:00:0	3 Elapsed			
1 Processed ∨	1 Errors ^	1 Warnings 🗸	0 Remaining ╰	3 Total 🗸	/
⊘ ⊷ ⊠					
🗄 🕕 🗋 Status	Message				
😣 🔍 🗋 Failed	Test2 has not been ad	ded to the list because of t	he following error: Error: In	serting 'Con	tact' recor
		Test2 has not been add the following error: Err record raised at least of the errors.	ded to the list because of ror: Inserting 'Contact' one error. Please review		
4					F
			<		> >
		CLOSE]		

Figure: Message indicating that the record has not been added to the marketing list

• If the record has not been found in the system and the record in the Excel file does not contain the first name, last name, or account name, the system does not create a record. It adds the record to the **Warnings** tab of the dialog box and displays the message shown in the following screenshot.

Processing					
Processing completed	d with errors, 00:00:0	3 Elapsed			
1 Processed ❤	1 Errors ❤	1 Warnings ^	0 Remaining ❤	3 Total 🗸	
Č ↔ X					
🗄 🛈 🗋 Status	Message				
! 🔍 🗋 Skipped	124356348765 has n	ot been found in the system	and the mapping file does	not contain the rec	quir
		124356348765 has not and the mapping file do required field values to	been found in the system bes not contain the create a new record.		
4			14	< < >	>
		CLOSE			

Figure: Message indicating that no record has been created

Additional Information

For more information about lead and contact creation during the uploading of new members, see *Marketing Lists: General Information* and *Marketing Campaigns: General Information*.

CRM: Personal Email Account

Previously, if a user used a personal email account in Acumatica ERP, the system administrator had to configure row-level security for the email account to prevent the user account from being used by other users. Moreover, if a user needed to add a new personal email account to the system or needed to be reauthorized in the external email services that used their personal email account, all these actions could be done only with the close coordination of the user and the system administrator.

In the context of these capabilities, a *personal email account* refers to a company email account that belongs to a person and is used for work-related business.

Starting in Acumatica ERP 2023 R2, an email account defined in the system can be specified as the personal email account of an Acumatica ERP user, and other users are prohibited from sending emails from this personal email account. The procedures of adding a new personal account to the system and performing reauthorization in the external email services have been simplified and can be done by a user, as described in the following sections.

Changes on the Email Accounts Form

The System Email Accounts (SM204002) form has been renamed to Email Accounts, and the Personal Account For box has been added to the Summary area of this form (see the following screenshot). The lookup table for this box lists all the users defined in the system, including inactive ones.

Email Accounts ☆ New Record				NOTES	FILES	CUSTOMIZATION	TOOLS -	Summary
🖹 🖍 + 🛍	© ✓ K < > >I TEST							
Email Account ID: Personal Account For: * Account Name:	<new> ♪</new>	 ★ Email Address: ✓ Reply Address: Email Service Plug-In: 				٩	^	Account Emails
SERVICE SENDER N	IAME INCOMING MAIL PROCESSING CO	ONTENT ASSIGNMENT SETTI	NGS					
SERVER INFORMATION _		SECURITY						
Incoming Mail Protocol:	IMAP ~	My outgoing server requ	ires authentica	ition				
* Root Folder (on Server):	Inbox	Log on using						
Incoming Mail Server:		Username:						
* Outgoing Mail Server:		Password:						
Group Mails:	0	My outgoing server vali	dates From field	ł				
AUTHENTICATION		SERVER PORT NUMBERS						
Authentication Method:	Basic Authentication ~	Incoming server port (POP	3/IMAP):	143	3			
LOGON INFORMATION -		Incoming server require	s encrypted cor	nnection (SSL)				
Username:		Outgoing server port (SMT	P):	25	5			
Password:		Outgoing server encrypted	connection:	None v				
		Timeout:		1 Minute 🗸				
		RECEIVING						
		After Receiving:	Mark Email on	Server as Read	~			
		5						
								<

Figure: The Personal Account For box on the Email Accounts form

The system fills in the settings of the *Email Accounts* form based on the settings of the user specified in the box. The specific elements that are copied depend on whether the selected record is a new record or was saved previously:

- For a new record in which **Personal Account For** has been filled in:
 - In the Account Name box of the Summary area and the Sender Name box of the Sender Name tab of the Email Accounts form, the system inserts the user's display name, which is composed of the first name and last name specified on the Users (SM201010) form.

- In the **Email Address** box of the Summary area of the *Email Accounts* form, the system inserts the **Email** value on the *Users* form.
- In the **Default Email Owner** box of the **Assignment Settings** tab of the *Email Accounts* form, the system inserts the employee specified in the **Linked Entity** box of the *Users* form if the box contains an employee. (The box can contain an employee or a contact, or can be left blank.)

This box is not filled in if the **Email Service Plug-In** box of the Summary area of the *Email Accounts* form contains *SendGrid*.

- For a previously saved record in which **Personal Account For** has been filled in or changed:
 - In the Account Name box of the Summary area and the Sender Name box of the Sender Name tab of the Email Accounts form, the system inserts the user's display name, which is composed of the first name and last name specified on the Users (SM201010) form.
 - In the **Default Email Owner** box of the **Assignment Settings** tab of the *Email Accounts* form, the system inserts the employee specified in the **Linked Entity** box of the *Users* form if the box contains an employee. (The box can contain an employee or a contact, or can be left blank.)

This box is not filled in if the **Email Service Plug-In** box of the Summary area of the *Email Accounts* form contains *SendGrid*.

When a user account is changed in the **Personal Account For** box of the *Email Accounts* form, the system checks whether the email account is specified in any of the elements mentioned in the *Elements with a restricted list of email accounts* table of the *Restrictions of Using Personal Email Accounts* section. If it is, the user cannot save the record, and the system shows an error message next to the **Personal Account For** box.

If the email address of the selected user differs from the email address that is specified in the **Email Address** box of the Summary area of the *Email Accounts* form, the system shows a warning message next to the **Personal Account For** box.

If the title of an email account contains *Exchange* (that is, if the email account has the *Exchange* type), the **Personal Account For** box is unavailable for the selection.

Changes on the Users Form

To show the list of all personal email accounts related to a selected user, the **Email Accounts** tab has been added to the *Users* (SM201010) form (as shown in the following screenshot). The table on the tab contains the email accounts for which the value of the **Personal Account For** box on the *Email Accounts* (SM204002) form is the name of the selected user on the *Users* form. The data in the table is read-only.

Users				NOTES ACTIVITIES	FILES CUSTOMIZATION TOOLS -
🖹 🗠 + 🖻	IC C > > SIGN IN AS USER	RESET PASSWOR	D DISABLE USER		
* Login:	johnson	P Status:		Active	
User Type:	Guest Account	0		Allow Password Rei Allow Password Chi	anges
Linked Entity:	Anna Johnson	00		Password Never Ex	pires
First Name:	Anna			Force User to Chan	ge Password on Next Login
Last Name:	Johnson	Max. Num	ber of Concurrent Login	s: 1 0	
* Email:	johnson@sweetlife.com	TWO-FACT	OR AUTHENTICATION		
Comment:	Accountant at all branches			Override Security Preference	35
		// Two-Facto	or Authentication:	None	
ROLES STATISTICS	IP FILTER EXTERNAL IDENTITIES PERS	SONAL SETTINGS	EMAIL ACCOUNTS	DEVICES LOCATION T	RACKING
Č + ⊢ ⊠					
🖹 🖟 🗋 *Account Name	Email Address		Active Email Ac	count Type Authentication M	lethod Username
> 0 D Anna Johnson	johnson@sweetlife.com		Standar	d Basic Authentic	ation

Figure: The Email Accounts tab on the Users form

A user can add an email account by clicking **Add Email Account** () on the table toolbar of the tab. The system opens the *Email Accounts* form in a new browser tab with a new email account record. The **Personal Account For** box is initially filled in with the name of the user account that had been open on the *Users* form (as shown in the following screenshot).

Email Accounts Anna Johnson - Star	ndard		🗅 NOTES FILES CUS	STOMIZATION TOOLS -
B v + D	© → I< < > >I TEST			
Email Account ID:	<new> ,0</new>	* Email Address:	johnson@sweetlife.com	Account Emails
Personal Account For:	johnson - Anna Johnson 🖉 🔎	Reply Address:		
* Account Name:	Anna Johnson	Email Service Plug-In:		Q
	✓ Active			
SERVICE SENDER N	IAME INCOMING MAIL PROCESSING CO	NTENT ASSIGNMENT SETTINGS		
Incoming Mail Protocol:	IMAP ~	My outgoing server requires	authentication	
* Root Folder (on Server):	Inbox	Log on using		
Incoming Mail Server:		Username:		
* Outgoing Mail Server:		Password:		
Group Mails:	0	My outgoing server validates	From field	
AUTHENTICATION		SERVER PORT NUMBERS		
Authentication Method:	Basic Authentication	Incoming server port (POP3/IM/	AP): 143	
LOGON INFORMATION _		Incoming server requires end	rypted connection (SSL)	
Username:		Outaoina server port (SMTP):	25	
Password:		Outgoing server encrypted conn	ection: None ~	
		Timeout	1 Minute v	
		RECEIVING		
		After Receiving: Mark	Email on Server as Read	
				<

Figure: An email account being added from the Users form

If a user has been deleted on the *Users* form and the **Personal Account For** box for an email account on the *Email Accounts* form had contained the name of the deleted user, the system clears this box.

Changes on the User Profile Form

On the **Email Settings** tab of the User Profile (SM203010) form, the following changes have been made:

The Personal Email Accounts section has been added (see the following screenshot). The table in the section contains the email accounts for which the value of the Personal Account For box on the Email Accounts (SM204002) form is the currently logged-in user. The columns of the table (excluding Active) are filled in by the system based on the settings of the email account on the Email Accounts form and are read-only. The state of the Active check box can be changed manually; if a user changes this state and then saves their changes, the system updates the state of the Active check box on the Email Accounts form.

User Profile			🗋 NO	TES FILES	CUSTOMIZATIO	ON TOOLS -
□ つ GENERATE ACCESS CODES	VIEW CONNECTED AP	PLICATIONS				
GENERAL INFO EMAIL SETTINGS	ELEGATES CUSTOM LO	CALE FORMA	AT EXTERNAL IDE	NTITIES DI	EVICES	
PERSONAL EMAIL ACCOUNTS						
O TEST SIGN IN UPDATE PASS	WORD ↔ 🗵					
🖹 🕕 🗅 *Account Name	Email Address	Active	Email Account Type	Authentication	Method	Username
> 0 D Kimberly Gibbs	gibbs@sweetlife.com		Standard	Basic Authenti	ication	
EMAIL SERVICE	CALENDA	R				•
Default Email Account:	A Make	My Calendar P RONIZATION	ublic			
✓ Include in New Emails	OUTLOOK		_			
Include in Replies and Forwarded Emails	Downloa	d Outlook Add-	In Manifest 🕜			
VISUAL 🕶 🗘 🗅 Paragraph 🔹 🖪	I <u>U</u> · <u>A</u> ·	∠ • ≡•	1	≣ &	INSERT	ý

Figure: The Personal Email Accounts section on the User Profile form

On the table toolbar of the section, the following buttons have been added:

• **Test**: A user clicks the button, which is available when an active email account is selected in the table, to open the **Send Test Email** dialog box (see the following screenshot). The system validates that the selected email account is operational by sending a test email to the email address that is specified in the table.

User Profile Divotes Files Custon	AIZATION TOOLS -
GENERATE ACCESS CODES VIEW CONNECTED APPLICATIONS	
GENERAL INFO EMAIL SETTINGS DELEGATES CUSTOM LOCALE FORMAT EXTERNAL IDENTITIES DEVICE	S
PERSONAL EMAIL ACCOUNTS	
Č TEST SIGN IN UPDATE PASSWORD ↔ 🗵	
🖹 🕼 🗅 *Account Name Email Address Active Email Account Type Authentication Method	d Username
Image: Standard Kimberly_Gibbs gibbs@sweetlife.com Image: Standard Basic Authentication	
Send Test Email ×	
Email Address. abd@sweetlife.com	
OK CANCEL	•
EMAIL SERVICE CALENDAR	
Default Email Account:	
EMAIL SIGNATURE SYNCHRONIZATION URL	
✓ Include in New Emails OUTLOOK	
Include in Replies and Forwarded Emails Download Outlook Add-In Manifest 2	
$VISUAL \bullet \circ \circ \circ Paragraph \bullet B I \underline{U} \bullet \bullet \bullet \bullet \checkmark \not \underline{a} \bullet \not \underline{a} \bullet \vdots = \vdots = \exists \exists$	रा ३

Figure: The Send Test Email dialog box on the User Profile form

- **Sign In**: This button is available when a record is selected in the table and the authentication method of the email account is *OAuth2*. When the button is clicked, the system signs in to the email service specified for the selected email account in the **External Application** box of the *Email Accounts* form.
- Update Password: This button is available when a record is selected in the table and the authentication method of the email account is *Basic Authentication*. When the button is clicked, the Update Password dialog box opens (see the following screenshot). If the user clicks Update, the system updates the Password box of the selected email account on the *Email Accounts* form with the value that is entered in the Email Account Password box of the dialog box.

User Profile			🗋 NOTES	FILES	CUSTOMIZATION	TOOLS -
GENERATE ACCESS CODES	VIEW CONNECTED APP	PLICATIONS	3			
GENERAL INFO EMAIL SETTINGS	DELEGATES CUSTOM LO	CALE FORM	AT EXTERNAL IDE	INTITIES	DEVICES	
PERSONAL EMAIL ACCOUNTS						
C TEST SIGN IN UPDATE PASS	WORD ↔ 🗵					
🖹 🕕 🗅 *Account Name	Email Address	Active	Email Account Type	Authenticat	tion Method	Username
> 0 D <u>Kimberly Gibbs</u>	gibbs@sweetlife.com		Standard	Basic Auth	entication	
Update Password × * Email Account Password: •••••						
		UPD	DATE CANCEL			• •
EMAIL SERVICE	CALENDAR	R				
Default Email Account:	ך DMake Make	/ly Calendar I	Public			
EMAIL SIGNATURE SYNCHRONIZATION URL						
✓ Include in New Emails OUTLOOK						
Include in Replies and Forwarded Emails Download Outlook Add-In Manifest						
VISUAL • 🗘 🖓 Paragraph • E	3 I <u>U</u> • <u>A</u> •	⊿ - ≡	• = = =	≣ &	INSERT	ş

Figure: The Update Password dialog box on the User Profile form

• The **Email Service** section has been added. The **Default Email Account** box has been moved to the section, as shown in the following screenshot.

User Profile			🕒 NO	TES FILES	CUSTOMIZATI	DN TOOLS -
☐ ∽ GENERATE ACCESS CODES	VIEW CONNECTED APP	PLICATIONS				
GENERAL INFO EMAIL SETTINGS	ELEGATES CUSTOM LO	CALE FORM	AT EXTERNAL IDE	INTITIES DE	EVICES	
PERSONAL EMAIL ACCOUNTS						
C TEST SIGN IN UPDATE PASS	WORD ↔ 🗵					
🖹 🕕 📩 *Account Name	Email Address	Active	Email Account Type	Authentication	Method	Username
> 0 D Kimberly Gibbs	gibbs@sweetlife.com		Standard	Basic Authenti	ication	
EMAIL SERVICE Default Email Account: EMAIL SIGNATURE	CALENDAF	R	Public			•
Include in New Emails	OUTLOOK	RONIZATION	URL			
□ Include in Replies and Forwarded Emails	Download	Outlook Add- ⊿ ▾ ≡ ▾	In Manifest 🕜 ∕ ≔ ः≣ ∞≣	≣ &	INSERT	ŷ

Figure: The Email Service section on the User Profile form

- The User Email Signature section has been renamed to Email Signature.
- The **Calendar** section has been added. The **IsPublic** check box has been renamed to **Make My Calendar Public** and moved to this section, along with the **Synchronization URL** button.
- The Outlook section has been added. The Download Outlook Add-In Manifest link has been moved to the section.

Restrictions of Using Personal Email Accounts

To restrict the usage of the personal email accounts in mass emails, on the *Email Activity* (CR306015) and *Mass Emails* (CR308000) forms, the lookup table in the **From** box shows only those email accounts for which either of the following conditions is met:

- The Personal Account For box of the email account contains the name of the currently logged-in user.
- The Personal Account For box of the email account is empty.

The system restricts the usage of personal email accounts in the system-wide preference settings and in emails that are created and sent automatically. The lookup table for the elements on the forms in the following table shows only those email accounts for which the **Personal Account For** box of the email account in the *Email Activity* form is empty.

Table: Elements with a restricted list of email accounts

Form	Element
Email Preferences (SM204001)	Default Email Account

Form	Element	
Contact Classes (CR205000)		
Case Classes (CR206000)		
Lead Classes (CR207000)		
Business Account Classes (CR208000)		
Opportunity Classes (CR209000)		
Accounts Payable Preferences (AP101000)		
Accounts Receivable Preferences(AR101000)		
Compliance Preferences (CL301000)		
Customer Management Preferences (CR301000)		
Service Management Preferences (FS100100)		
Equipment Management Preferences (FS100300)		
Route Management Preferences (FS100400)		
Inventory Preferences (IN101000)		
Projects Preferences (PM101000)		
Purchase Orders Preferences (PO101000)		
Purchase Requisitions Preferences (RQ101000)		
Subcontracts Preferences (SC101000)		
Sales Orders Preferences (SO101000)		
Email Templates (SM204003)	From	
Vendor Classes (AP201000)	Email Account	
Vendors (AP303000)		
Customer Classes (AR201000)		
Customers (AR303000)		
Business Account Classes (CR208000)		
Service Order Types (FS202300)		
Project Templates (PM208000)		
Projects (PM301000)		
Form	Element	
---------------------------------	--	--
Business Accounts (CR303000)		
Restricted Entities (SM201040)	Entity (for the <i>Email Account</i> option selected	
Restriction Groups (SM201030)		
Email Account Access (SM201050)	Email Account ID	

If row-level security rules are applied in the system, the lists of email accounts can also be restricted based on these rules.

Changes on Other Forms

The **Personal Account For** column has been added to the table on the *Email Preferences* (SM204001) form. The name in this column is also a link that a system administrator can click to open the user on the *Users* (SM201010) form in a new browser tab.

Also, the Mailing Settings tab of the Business Accounts (CR303000) form has been renamed to Mailing & Printing.

Upgrade Notes

After the system upgrade, all the email accounts of the *Email Service Plug-In* type on the *Email Accounts* (SM204002) form will have the *Plug-In* type selected in the **Authentication Method** box of this form.

CRM: Creation of a Return Order from a Case

Previously, the creation of a return order based on a customer case took a great deal of time and effort.

Starting in Acumatica ERP 2023 R2, a user can create a return order directly from the Cases (CR306000) form, as described below.

Creation of a Return Order from the Cases Form

To enable the creation of a return order directly on the *Cases* (CR306000) form, the following enhancements have been made on the More menu of the form.

- The Service section has been renamed to Customer Service (see Item 1 in the following screenshot).
- The **Create Return Order** command has been added to the **Customer Service** section (Item 2). The command is available only if the case is active.

Cases 000011 - Which ve	getables can be j	juiced by using JUICER10)?		C NOTES FILES CUSTOMIZATION	N TOOLS -
← 🖺 🗒 🗘) + © ~	ik < > >۱	TAKE CASE CLOSE			-
DOCUMENT USER	R-DEFINED FIELDS			Processing	Activities	
Case ID:	000011	,> ★ Class ID:	PRESALE - Pre-sales reque		Create Email	^
Date Reported:		Business Account:	ABAKERY - Allen's Bakery	Take Case	Create Work Item	
Last Activity Date:	7/17/2023	* Contact:	Beverly Hail	Close	Create Note	
SLA:		Owner:	Jeffrey Vega	Pending Customer	Create Task	
Closing Date:		* Subject:	Which vegetables can be jui	Release	Create Phone Call	
DETAILS ADDITIO	NAL INFO ATTRIE	BUTES ACTIVITIES RELA	TED CASES RELATIONS	1 Customer Services	Other	
VISUAL • 🖒 🔿	Paragraph 👻 🖪	3 I 🖳 • 🔺 🖉 •	• =• = = = =	Create Return Order	Apply Assignment Rules	
				Create Service Order		

Figure: Changes on the More menu of the Cases form

If a user clicks **Create Return Order**, the **Create Return Order** dialog box opens (see the following screenshot). In this dialog box, the user specifies the type of the order to be created on the *Sales Orders* (SO301000) form. Order types are available for selection in this box only if they have the *RMA Order* automation behavior specified on the *Order Types* (SO201000) form. By default, the system inserts the order type specified in the **Default Return Order Type** box on the *Sales Orders Preferences* (SO101000) form, if one has been specified. The user can override the default setting.

Cases 000011 - Which veg	getables can be juiced l	by using Jl	JICER10?) NOTES FILES	CUSTOMIZATION	TOOLS -
← □ □ ∽	+ 0 ~ 🛍 I	< <	> >I CLO	SE ····		
DOCUMENT USER-	-DEFINED FIELDS					
Case ID:	000011 ,0					^
Last Activity Date	Return Order		×			
SLA: * Retur	rn Order Type:		۵			
Closing Date: * Class ID:		CREATE	CANCEL	Open		
Business Account:	ABAKERY - Allen's Bakery	. م	Reason:	In Process	~	
* Contact:	Beverly Hail	, م	Severity:	Medium	~	
Owner:	Jeffrey Vega	Q	Priority:	Medium	~	
* Subject:	Which vegetables can be juic	ed by using JU	ICER10?			
DETAILS ADDITION	IAL INFO ATTRIBUTES	ACTIVITIES	6 RELATED CA	SES RELATIONS		
VISUAL • 🖍 🔿	Paragraph • B I	<u>U</u> - <u>A</u>	• 2 • =	• 🗄 🗄 🖻	≣ Q	Ŷ

Figure: The Create Return Order dialog box

When the user specifies the order type and clicks **Create** in the dialog box, the system checks for the following issues before creating the return order:

If the Business Account box on the Cases form is empty or contains a business account that has not been
extended to be a customer, the system shows an error message (see the following screenshot). The business
account must have the Customer or Customer & Vendor type specified on the CRM Info tab of the Business
Accounts (CR303000) form.

Search	To create a	return o	says [.] der, you must specif	y a business account that has						
Cases 000011 - Which veg ර දී ඕ න	the Custom	er or Cu	stomer & Vendor typ	е.)		🗋 NOTES FI	LES CUSTOMIZATION	N T	TOOLS .
Case ID:	000011	Q	* Class ID:	PRESALE - Pre-sales requests from p	Q	0	Status:	Open		^
Date Reported:			Business Account:	GREENEX - Greenex Cafe	Q	0	Reason:	In Process	*	
Last Activity Date:	4/26/2024		* Contact:	Catherine Hoff	Q	0	Severity	Medium	~	
SLA:			Owner	Jeffrey Vega	Q		Priority:	Medium	¥	
Closing Date			* Subject:	Which vegetables can be juiced by usi	ng J	UICE	R10?			
DETAILS ADDITIONA	ALINFO ATTE	RIBUTES	ACTIVITIES RELA		0	IN				

Figure: Error message about the business account type

• If the user has insufficient access rights to create a return order on the *Sales Orders* form, the following error is displayed (see the screenshot below).

Search Search You do not h system admi o00011 - V Source and the second sec	ays ave access rig nistrator if yo	ghts to create a re u need your perm	turn order. Contact your issions to be updated. OK					
Case ID: 000011	Q	* Class ID	PRESALE - Pre-sales requests from p	0,0	0	Status:	Open	
Date Reported:		Business Account:	ABAKERY - Allen's Bakery	Q	0	Reason:	In Process	~
Last Activity Date: 7/17/202	3	* Contact.	Beverly Hail	Q	0	Severity:	Medium	÷
SLA.		Owner.	Jeffrey Vega	Q		Priority:	Medium	Ŷ
Closing Date:		* Subject:	Which vegetables can be juiced by usi	ing Jl	UICER	10?		
DETAILS ADDITIONAL INFO VISUAL • • • • • Paragrap A request from Beverly Hail about the	ATTRIBUTES	ACTIVITIES RELA	NTED CASES RELATIONS • 至 • ≔ ≔ Ξ Ξ SER10 (if any).	Ø	INS	ERT LAYOUT	TABLES	

Figure: Error message about the user's access rights

If the *Customer and Vendor Visibility Restriction* feature is enabled on the *Enable/Disable Features* (CS10000) form, the creation of return orders for the customer that is selected in the case might be restricted based on the branch specified for the customer in the **Restrict Visibility To** box (Financial tab) of the *Customers* (AR303000) form. If this branch is different than the current branch of the user, the system shows the error message indicating that in the user's current branch, the creation of a return order for this customer is restricted, as shown in the following screenshot.

Class ID. DRESALE - Pre-sales requests from p.p. p. p. signature Date Reported: Business Account: ABAKERY - Aller's Bakery p. p. Reason: In Process v Last Activity Date: 7/17/2023 * Contact: Beverly Hail p. p. Severity: Medium v SLA: Owner: Jeffrey Vega p. Priority: Medium v Closing Date: * Subject: Which vegetables can be juiced by using JUICER10? DETAILS ADDITIONAL INFO ATTRIBUTES ACTIVITIES RELATED CASES RELATIONS
Last Activity Date: 7/17/2023 * Contact: Beverly Hail P ✓ Severity: Medium ✓ SLA: Owner: Jeffrey Vega Priority: Medium ✓ Closing Date: * Subject: Which vegetables can be juiced by using JUICER10? ✓ DETAILS ADDITIONAL INFO ATTRIBUTES ACTIVITIES RELATED CASES RELATIONS
SLA: Owner: Jeffrey Vega Priority: Medium Closing Date: * Subject: Which vegetables can be juiced by using JUICER10? DETAILS ADDITIONAL INFO ATTRIBUTES ACTIVITIES RELATED CASES RELATIONS
Closing Date: ★ Subject: Which vegetables can be juiced by using JUICER10? DETAILS ADDITIONAL INFO ATTRIBUTES ACTIVITIES RELATED CASES RELATIONS VISUAL • • • • • • • • • • • • • • • • • • •
DETAILS ADDITIONAL INFO ATTRIBUTES ACTIVITIES RELATED CASES RELATIONS VISUAL • ∽ へ Paragraph • B I U • A • ∠ • Ξ • Ξ Ξ ⊉ INSERT LAYOUT TABLES

Figure: Error message about the restriction of using the customer in the user's current branch

Changes in Return Order Creation

When a user clicks **Create** in the **Create Return Order** dialog box on the *Cases* (CR306000) form, if no error is generated, the system opens the *Sales Orders* (SO301000) form for the creation of a new record.

The system copies the values from the case and inserts them into the boxes on the Summary area of the return order as follows:

- Order Type: The system inserts the order type that has been selected in the Create Return Order dialog box. If a user has changed the order type, the predefined values will be removed, and the relation with the case will be lost.
- **Customer**: The system inserts the customer that has been selected in the **Business Account** box of the *Cases* form for the case.
- Location: The system inserts the location that has been selected in the Location box on the Additional Info tab of the Cases form for the case. If no location was specified in this box, the system inserts the Main location of the customer by default.

This box appears on the form only if the *Business Account Locations* feature is enabled on the *Enable/Disable Features* (CS100000) form.

- **Contact**: The system copies the contact that has been selected in the **Contact** box of the *Cases* form. If this box is empty for the case, the system leaves the box empty for the return order.
- **Description**: The system inserts the description of the case that has been entered into the **Subject** box of the *Cases* form.

The system also creates a new relation between the case and the return order. That is, on the **Relations** tab of the *Cases* form, the system adds a row for the sales order with the *Derivative* role and the *Sales Order* type. On the **Relations** tab of the *Sales Orders* form, the system adds a row for the case with the *Source* role and the *Case* type.

Changes on the Sales Order Preferences Form

An administrative user can now specify the type of the return order that is selected by default in the **Create Return Order** dialog box on the *Cases* (CR306000) form. In the *Sales Orders Preferences* (SO101000) form, the following changes have been made:

- The Related Case Settings section (see Item 1 in the following screenshot) has been added to the General tab of the form. The section appears on the form only if the Case Management feature is enabled on the Enable/Disable Features (CS100000) form.
- The **Default Return Order Type** box (Item 2) has been added to the **Related Case Settings** section. By default, this box is empty, but a user can select in the list any order type with *RMA Order* automation behavior specified on the *Order Types* (SO201000) form.

Sales Orders Preferences					CUSTOMIZATION	TOOLS -
<u>م</u>						
GENERAL MAILING & PRINTING	WAREHOUSE MANAGEMENT					
DATA ENTRY SETTINGS				POSTING SETTINGS		
Default Sales Order Type:	SO - Sales Order	ρ			✓ Automatically Release IN Document	s
Default Transfer Order Type:	TR - Transfer	ρ		INTERCOMPANY ORDER SETTINGS		
* Shipment Numbering Sequence:	SOSHIPMENT - SO Shipment	ρ	Ø	* Default Type for Intercompany Sales:	SO - Sales Order	Q
Picking Worksheet Numbering Sequence:	PICKWORKSH - SO Picking Workshe	ρ	Ø	* Default Type for Intercompany Returns:	RC - Return for Credit	Q
	Advanced Availability Validation			-	Disable Adding Items to Orders	
PRICE SETTINGS				1	Disable Editing Prices and Discount	5
Validate Min. Markup:	No Validation	~		RELATED CASE SETTINGS		
	Use a Price Adjustment Multiplier			Default Return Order Type: 2		Q
Ignore Min. Markup Validation for Prices S	pecific To					
	Customer					
	Customer Price Class					
	Promotional Prices					
FREIGHT CALCULATION SETTINGS						
Freight Allocation on Partial Shipping:	Full Amount First Time	~				
SHIPMENT SETTINGS						
* Free Item Shipping:	Proportional	~				
	Hold Shipments on Entry					
	Validate Shipment Total on Confirmat	ion				
	Add Zero Lines for Items Not in Stock	¢				
	Create Zero Shipments					

Figure: Changes on the Sales Order Preferences form

Other Changes on the Cases Form

If at least one open return order exists in the system for the customer selected for a case, the system displays a warning message next to the **Business Account** box on the Cases (CR306000) form (see the following screenshot).

Cases 000010 - Request for juicer repair from Storehut		NOTES FILE	S CUSTOMIZATION	TOOLS -
5 11 12 0 + D × 目 K × > >	OPEN TAKE CASE ····			
DOCUMENT USER-DEFINED FIELDS				
Case ID: 000010 ,	JREPAIR - Repair of juicers	Status:	New	^
Date Reported: Business Account:	STOREHUT - Storehut ρ 🧷	Reason:	Unassigned ~	
Last Activity Date: This customer already has at least one open	Tonya Lawrence 🖉 🖉	Severity:	Medium ~	
SLA:	Jeffrey Vega 🔎	Priority:	Medium ~	
Closing Date: * Subject:	Request for juicer repair from Storehut			
DETAILS ADDITIONAL INFO ATTRIBUTES ACTIVITIES RELATE				
HIGHE F ET CA Paragraphi - B I Q - A - Z -		SERT EXTOUT	INDEES	
The repair of JUICER15 is required.				

Figure: Warning message about an open return order

On the table toolbar of the **Relations** tab of the form, the *Return Orders* filter option has been added. If a user selects this filter option, the table displays only orders for which the following conditions are met:

- The relation type (in the **Type** column of this tab) is Sales Order.
- On the *Sales Orders* (SO301000) form, the order has an order type for which the *RMA Order* automation behavior is specified on the *Order Types* (SO201000) form.

Enhancements on the Relations Tab of Multiple Forms

Enhancements have been made to the **Relations** tab of the customer relationship management (CRM) forms that are listed at the end of this section. To reflect additional information about the entities related to the entity selected on the form, the following columns have been added to this tab:

- **Description**: The brief description of the record
- Status: The status of the record
- **Owner**: The owner of the record

The system fills in the new columns with the current values that are copied from boxes on the entry form of the related record; if there are no boxes with this information, the system leaves the columns empty. The sources of the copied settings are based on the type of the record.

The changes on the **Relations** tab have been made to the following forms:

- Leads (CR301000)
- Contacts (CR302000)
- Business Accounts (CR303000)
- Opportunities (CR304000)
- Sales Quotes (CR304500)
- Cases (CR306000)
- Sales Orders (SO301000)

Additional Information

For more information about the creation of return orders, see Case Management: Creation of Return Orders.

CRM: Changes to Summary Area Totals

In Acumatica ERP 2023 R2, to make the CRM forms consistent with the changes that were made to other Acumatica ERP forms, multiple changes have been made to the Summary area of the following CRM data entry forms:

- Opportunities (CR304000)
- Sales Quotes (CR304500)

The following sections describe the UI changes made on the listed forms in the system and in the Acumatica mobile app.

For details on form changes in other product areas, see *Finance: Changes to Summary Area Totals, Projects and Construction: Changes to Summary Area Totals, and Inventory and Order Management: Changes to Summary Area Totals, area Totals.*

Changes to the Opportunities and Sales Quotes Forms

On the *Opportunities* (CR304000) and *Sales Quotes* (CR304500) forms, to enhance the available information in the Summary area of both forms, the following changes have been made:

• The **Amount** box has been renamed to **Detail Total** (see Item 1 in the screenshot below, which shows an opportunity) and now displays the sum of the line amounts before any deductions—that is, the sum of the amounts entered in the **Ext. Price** column on the **Details** tab.

The box is available for editing if the Manual Amount check box is selected in the Summary area.

• The Line Discounts box (Item 2) was added and displays the sum of the discount amounts that are specified in the Discount Amount column of the Details tab.

The box appears in the Summary area if the Manual Amount check box is cleared.

• The **Discount** box has been renamed to **Document Discounts** (Item 3) and now displays the sum of the discount amounts, which are specified in the **Discount Amt.** column of the **Discounts** tab of both forms.

If the *Customer Discounts* feature is enabled on the *Enable/Disable Features* (CS100000) form, the **Document Discounts** box is available for editing only if the **Manual Amount** check box is selected in the Summary area. If the *Customer Discounts* feature is disabled, the **Document Discounts** box is available for editing.

If the **Manual Amount** check box is cleared, the system copies the value from the **Document Discounts** box to the **Document Discounts** box on the *Sales Orders* (SO301000) or *Invoices* (SO303000) form for each sales order or invoice that is created based on the particular opportunity or sales quote, respectively. If the check box is selected, the system does not do this.

- The Tax Total box now is shown only if the Manual Amount check box is cleared in the Summary area.
- The Total box now is calculated as follows if the Manual Amount check box is cleared in the Summary area.

Detail Total - Line Discounts - Document Discounts + Tax Total

If the Manual Amount check box is selected, the system calculates the sum in the Total box as follows.

Detail Total - Document Discounts

· · ·) + 0 ~ 0 K	<	>	>I OPEN	CREATE QUO	TE					
Opportunity ID	000014	Q.	в	usiness Account:	ITACOM	- Italian Company	Q	0		Manual Amoun	t Y
Status:	New		L	ocation:	MAIN - P	rimary Location	Q	0	Detail Total.	4,000.00	0
* Class ID:	PRODUCT - Product Sales	, Q	1 0	ontact	Dustin Li	ndquist	Q	0	Line Discounts:	200.00	0
Stage:	Prospect	~	C	wner			Q		Document Discourt	its: 0.00	0
* Estimated Close Date.	10/20/2024 📋								Tax Total.	0.00	
* Subject.	Sale of commercial juicer to Italian	Company	,						Total	3,800.00	
		CRM I	NFO	FINANCIAL	SHIPPING	ATTRIBUTES	RELATIONS	TAXE	ES DISCOUNTS	5	
ACTIVITIES DETA	ILS QUOTES CONTACT DD MATRIX ITEMS (-) 🕱 Description	CRM II	Free Item	FINANCIAL Billing Rute	SHIPPING Warehouse	ATTRIBUTES	RELATIONS Estimated Duration	UOM	ES DISCOUNTS Unit E Price Pri	xt. Discount, %	Discour

Figure: UI changes in the Summary area of the Opportunities form

For more information about the changes on the **Quotes** tab of the *Opportunities* form, see the *Changes to the Opportunities Form* section in the *Projects and Construction: Changes to Summary Area Totals*.

Enhanced Summary Totals in the Mobile App

In the Acumatica mobile app connected to an instance of Acumatica ERP 2023 R2, on the *Opportunities* and *Sales Quotes* screens, some fields have been added, rearranged, or renamed.

On the **Summary** tab of both screens, the following changes have been made:

- The Amount box has been renamed to Detail Total.
- The Line Discounts box has been added.
- The **Discount** box has been renamed to **Document Discounts**.
- The Tax Total box has been moved to the top of the screen.

The appearance of these UI elements on both screens depends on the following conditions:

- Whether the Manual Amount check box is selected on the Summary tab
- Whether the *Customer Discounts* feature is enabled or disabled on the *Enable/Disable Features* (CS100000) form

The following screenshots show the Opportunities screen with the different set of conditions:

- Suppose that the Manual Amount check box is cleared:
 - If the *Customer Discounts* feature is enabled on the *Enable/Disable Features* (CS100000) form, the **Detail** Total, Line Discounts, and Document Discounts boxes on the Summary tab and the Tax Total and
 Total boxes on the top of the screen appear on the screen and read-only, as shown in the following
 screenshot.

13:37	() ()) .atl .atl §	R (33)
× Opportunity		Q	1
iti: 000013 Status: New Probability: 0	Total 631.4 Tax Total: 0.0	5)0	
SUMMARY DETAILS	ACTIVITIES	SETTING	
Product Sales			
Sale of jams to Milky B	ау		
Prospect			4
Milky Bay			Q
Acentral			Q
kilimaali Americe			
aend Tam 621-45-			
Kann Distanuman D. MD.			
Concursent Discounts 0,00			_
Owner		٩	*
	۲	۹.	

Figure: The Summary tab with the feature enabled and the check box cleared

If the *Customer Discounts* feature is disabled on the *Enable/Disable Features* form, the **Detail Total**, Line **Discounts**, and **Document Discounts** boxes on the **Summary** tab and the **Tax Total** and **Total** boxes on the top of the screen appear on the screen. The **Document Discounts** box is available for editing while the other boxes are read-only, as shown in the following screenshot.

12:51	00	😤 lho lho (
× Opportunity		Û	
ID: 000013 Status: New Probability: 0	Total: 631.4 Tax Total: 0.0	5	
SUMMARY DETAILS	ACTIVITIES	SETTINGS	
Product Sales			
Sale of jams to Milky E	Bay		
Prospect			•
Milky Bay			Q
Control			Q
Mbnuaf America			
Detail Tami NAT-AB			
Lane (instantina) 10:00			
0.00			
tiyawi	۲	•	-

Figure: The Summary tab with the feature disabled feature and the check box cleared

If the Manual Amount check box is selected, regardless of whether the Customer Discounts feature is
enabled on the Enable/Disable Features form, the Detail Total and Document Discounts boxes on the
Summary tab and the Total box on the top of the screen appear on the screen. The Detail Total and
Document Discounts boxes are available for editing and the Total box is read-only, as shown in the
following screenshot.

13:30 🕥	10 0) all all S	
× Opportunity		0	
ID: 000013 Status: New Probability: 0	Total 631.4		
SUMMARY DETAILS	ACTIVITIES	SETTING	
(Diress (i)) *			
Product Sales			•
Sund -			
Sale of jams to Milky B	ау		
The second se			
Prospect			-
and a second			
Milky Bay			Q
			Q
Monadiónic			
Detail Koran			
631.45			
0.00			
Calentree:		٩	
AGDITIONAL INFO			
	۲	4	

Figure: The Summary tab with the feature enabled or disabled and the check box selected

Upgrade Notes

During an upgrade to Acumatica ERP 2023 R2, for all open documents, the system will recalculate the values in the **Detail Total** and **Total** boxes in the Summary area of the *Opportunities* (CR304000) and *Sales Quotes* (CR304500) forms.

CRM: Other Improvements

Acumatica ERP 2023 R2 introduces the improvements to the customer relationship management (CRM) functionality that are described below.

Quick Access to a Marketing List or Campaign from a Mass Email

To make the access to a marketing list or campaign quicker, on the *Mass Emails* (CR308000) form, the values in the **Marketing List ID** and **Campaign ID** columns have been changed to links. When a user clicks one of these links, in a new browser tab, the system opens the marketing list or campaign on the *Marketing Lists* (CR204000) or *Marketing Campaigns* (CR202000) form, respectively.

Preview Message Enhancements on Mass Email

When a user clicks **Preview Message** on the form toolbar of the *Mass Emails* (CR308000) form, the system checks if at least one contact is selected for the mass email. If not, it shows the following error message as follows.

Search Mass Emails 000001 - Citra	Says Search Mass Emails 0000001 - Citrus Constant and the specified for the mass email.											1/21/2023 ⑦ 41 AM ⑦ In NOTES FILES CM TEMPLATE						
SUMMARY Mass Mail ID: * From: * Subject * To: CC: BCC:	MARKETING LIST MESS 000001 SweetLife Marketing Citrus Juicers 20% Off ((Email))	AGES A A A A A A A A A A A A A A A A A A A	ACTIVI Source * Planne Status Sent:	al ad:	Marke 10/21/ On Ho	ting Lists /2024 ↔ old ↔			*									
VISUAL • 🖍	Cv Paragraph ▼ E	3 1	<u>u</u> •	A -	2-	Ę.	ill.	E	E.	I	Ø	INSERT	LAYC	оот т	TABLES			

Figure: The error message

If the system finds at least one contact, the *Email Activity* (CR306015) form is opened in a pop-up window.

Documentation: Improvements in User Guides

In Acumatica ERP 2023 R2, significant improvements have been made to the content and structure of the guides that make up the documentation, as described in the following sections.

Financial Management Guide

The *Financial Management* guide has been split into multiple guides, with each dedicated to a particular financial management area. Starting in Acumatica ERP 2023 R2, a user can find the following guides on the **Educational Resources** Help dashboard in the Acumatica ERP instance:

- The General Ledger guide
- The Accounts Payable guide
- The Accounts Receivable guide
- The Cash Management guide
- The Taxes guide
- The Credit Policy Management guide
- The Currency Management guide
- The Deferred Revenue guide
- The Fixed Assets guide

Each of these guides is represented as an individual tile with a brief guide description on the Acumatica ERP Help Portal (as the following screenshot shows).

ducational Resources				
DUSER				
Setting Started arm how to make your job easier by resonaizing Acumatics ERP to support ur specific work tasks and by using the istam more efficiently.	General Ledger Find the information you need to harness the power and fisishibity of Asumatica ERPs broad financial management capabilities	Accounts Payable Explore the accounts payable functionstity of Asumatics ERP so that you can efficiently manage your company's liabilities.	Accounts Receivable Learn how Accensiona ERP can help you effectively manage your company's receivables.	
ash Management vastigate the cash management inclonality of Acamilica ERP, and fectively manage your day-to-day cash einteone	Taxes Learn how to configure and use automatic tax calculation in Acumatica ERP	Credit Policy Management First information about the credit management canabilities weilidable in Acumatica ERP.	Currency Management Investigate Accurate ERP's currency minoperime, Which can help you to manage multiple currencies for accounting in the system	
eferred Revenue arm about the processas of recognizing diversel avenues and deferring expenses Acumatica ERP	Fixed Assets Read about how to exhance your customer experience by keeping a close eye on all your fixed assets:	Order Management Learn from you can manage your sales- neleted and purchase-national activities web Acumatica ERPS flexible order fulfitment processes	Inventory Management Discover how to gain total control over your inventory while mandmaining full transparency into atock levela.	

Figure: The Educational Resources Help dashboard

Implementation Guide

The Implementing Fixed Assets part has been added to the Implementation guide. It describes how to configure the system to prepare it for fixed asset management, how to set up the fixed asset functionality, and how to create fixed asset classes, which will group fixed assets and provide their default settings. This part includes activities that users can perform by using the *U100* dataset.

Fixed Assets Guide

The Fixed Assets guide has been updated with new chapters describing how to create fixed assets, make additions to and deductions from fixed assets, and manage fixed assets by transferring, splitting, and disposing of them. The guide also includes chapters describing the depreciation of fixed assets, the management of depreciable fixed assets, and the migration of fixed assets from a legacy system to Acumatica ERP. These chapters in the guide include activities that users can perform by using the *U100* dataset.

Credit Policy Management Guide

The Credit Policy Management guide has been updated with new chapters describing how to configure credit verification rules for customers, set up the dunning process, prepare dunning letters, apply overdue charges, and process write-offs. These chapters in the guide include activities that users can perform by using the *U100* dataset.

Field Services: Optimized Retrieval of a Billing Cycle

In previous versions of Acumatica ERP, during an appointment or service order billing process, complicated system logic governed the processes of obtaining and applying the billing cycle settings to a service order or an appointment.

The billing cycle setting was specified both on the *Customers* (AR303000) form and on the *Service Orders* (FS300100) form. When the billing process was run, the system checked the billing cycle specified in the service order and compared it with the billing cycle specified for a customer. This behavior could cause data inconsistencies. In some cases, the system could not determine which billing cycle should be applied to a service order or appointment being billed, so that the document could not be processed.

Also, if a user updated a billing cycle in the customer settings on the *Customers* form, it caused serious system performance issues because the system had to update all the related service documents in the database.

In Acumatica ERP 2023 R2, the service document billing functionality stays unchanged, but significant improvements have been made to the logic the system uses to apply billing cycle settings to service documents.

New Billing Cycle Retrieval Process

In Acumatica ERP 2023 R2, when the billing process is run for a service order or an appointment, the system only uses the billing cycle settings specified for the customer on the *Customers* (AR303000) form.

When the billing process is run on the *Service Orders, Run Service Order Billing, Appointments*, or *Run Appointment Billing* forms, the system selects the billing cycle as follows:

- If the Manage Multiple Billing Options for Customer check box is selected on the Service Management Preferences (FS100100) form, the system uses the billing cycle associated with the applicable service order type on the Service Billing tab of the Customers (AR303000) form.
- If the **Manage Multiple Billing Options for Customer** check box is cleared on the *Service Management Preferences* form, the system uses the billing cycle specified for the customer in the **Billing Cycle** box on the **Billing** tab of the *Customers* form.

If no billing cycle is specified for a customer, the system will show a warning message indicating that one must be specified.

Changes Made to the User Interface

To support the improved retrieval of billing settings, the following changes have been made to the Acumatica ERP user interface:

- On the Service Orders (FS300100) form, the listed changes have been made:
 - In the Summary area, the **Billing By** box (see Item 1 in the following screenshot) has been removed.
 - The **Billing Documents** tab (Item 2) is now always displayed. It shows all documents that are shown on the same tab of the *Appointments* (FS300200) form in all appointments of this service order. For example, if an invoice has been generated for an appointment of a service order, then this invoice is shown on the **Billing Documents** tab of the *Appointments* form, as well as on this tab of the *Service Orders* form in the related service order.
 - On the Financial tab, the Billing Cycle box (Item 3) has been removed.

Service Orders INST 000036	- FourSt	ar Coff	fee & Swee	ts Shop											Ĩ	NOTES	ACTIVITIES	FILES	TOOLS .
6 a a	0	+ 1	0 · 0	к	<	> :	N	COMPLETE	0	UICK PROCESS	CRE	ATE APPOINTMENT							
Order Type	INST - Inst	a 2 d	Customer.	C	OFFEE	SHOP - I	FourSta	r Coffee & Si	ює ¢	* Estimated Du	ration	1 h 00 m							^
Order Nbr.	000036	R	Location	M	AIN - P	rimary Lo	ocation		2 0	P Estimated B	lable Total	100.00							
Status	Open		Branch Loo	cation. W	EST B	RIGHTON	N - Offic	e in West Bri	P 6	* Estimated Ta	x Total	0.00							
Date:	1/31/2023	.9	Service Co	ntract					00	 Estimated To 	tal	100.00							
Customer Order			· Project	X	Non-I	Project Ca	ode		0.0	 Invoice Total 		100.00							
External Refer										Billing By		Service Orde							
Description	Installation	of equip	ment at the cust	tomers' pla	sce							Waiting for Purchas	ed llems						
												Appointments Need	bed						
SETTINGS	DETAILS	TAXE	S APPOIN	TMENTS	FI	NANCIAL	E	ROFITABILI	ý.	DEFAULT STAFF	DEF	AULT RESOURCE EQU	PMENT	ATTRIBUTES	PREPAYMEN	TS B	ILUNG DOCUM	ENTS	23
					-		-									-		_	-
FINANCIAL INFO	RMATION .				_	-													
Branch		SWEETE	QUIP - Service	and Equip	ome ,0	2													
Billing Custome	e i	OFFEE	SHOP - FourStr	ar Coffee 8	1910	0													
Billing Location		IAIN - P	rimary Location		0														
Customer Tax Z	cone:	VYSTATE	E - NY State Tax	¢	R	-													
- Billing Cyclo	-	30 50				3													
Billing By		Service C	Orders																
Salesperson					P														
	10	Commis	ssionable																

Figure: Changes on the Service Orders form

- On the *Appointments* (FS300200) form, the listed changes have been made (as shown in the following screenshot):
 - The **Billing Documents** tab (Item 1 in the screenshot) is always displayed.
 - On the Financial tab, the Billing Cycle box has been removed.
 - On the Financial tab, the Run Billing For box has been renamed to Billing By (Item 2).

Appointments INST 000036-1 - Fou	IrStar Coffee & Sweets Shop	NOTES ACTIVITIES FILES TOOLS .
6 E E O	+ 🗇 🗘 - K < > >I HOLD START DEPART …	
- Service Order INST - In	Insta D & Customer. COFFEESHOP - FourStar Coffee & Swer & Estimated Duration 1 h 00 m	^
Appointment N 000036-	1 ,O + Location MAIN - Primary Location D & Actual Duration 0 h 00 m	
Service Order 000036	🖉 • Branch Location WEST BRIGHTON - Office in West Bri 🔎 🧭 Actual Billable Total 100.00	
Status Not Star	ted Service Contract: D & Actual Tax Total 0.00	
Scheduled Sta 1/31/202	13 v Project: X - Non-Project Code. / Invoice Total 100.00	
Actual Start D. 1/31/202	13 - Wanning for Purchased liems	
Description Installati	on of equipment at the customers' place	
SETTINGS DETAILS	TAXES STAFF RESOURCE EQUIPMENT LOG FINANCIAL PROFITABILITY ATTRIBUTES FREPAYMENTS TOTALS	BILLING DOCUMENTS OTHER
FINANCIAL INFORMATION	·	
Branch	SWEETEQUIP - Service and Equipme P	
Billing Customer	COFFEESHOP - FourStar Coffee & St. P 2	
Billing Location:	MAIN - Primary Location ,0	
Customer Tax Zone:	NYSTATE - NY State Tax P	
Exiling By	Service Orders 2	
Salesperson	Q	
	Commissionable	

Figure: Changes on the Appointments form

New Warning Messages

A new informative warning message has been added to the *Service Management Preferences* (FS100100) form. When an administrative user selects or clears the **Manage Multiple Billing Options per Customer** check box on the **General** tab, the system displays the following warning message: *After modifying this setting, ensure that billing cycles are specified for all customers.*

Also, a new warning message has been added to the *Customers* (AR303000) form. For an existing customer, if a user tries to modify the value in the **Billing Cycle** box on the **Billing** tab, or in **Billing Cycle** column on the **Service Billing** tab, the system displays the following warning message: *Note that at the time the billing process is performed, the system uses the billing cycle specified in this box. If you change the billing cycle, the system will use the* newly specified billing cycle to process the customer's service orders and appointments that have not been billed yet, and to process any service orders and appointments whose billing documents will be corrected and for which billing will run again.

The **Billing Cycle** box on the **Billing** tab of the *Customers* (AR303000) form is used when the **Manage Multiple Billing Options for Customer** check box is cleared on the *Service Management Preferences* (FS100100) form. The **Service Billing** tab is used when the **Manage Multiple Billing Options for Customer** check box is selected on the *Service Management Preferences* form.

Finance: Acumatica Payments

In Acumatica ERP 2023 R2, Acumatica Payments has been introduced. This payment plug-in supports most popular payment methods, including credit cards, electronic funds transfer (EFT), and payment links.

At this time, the following Acumatica Payments functionality can be used: A user can now review all open AR or sales invoices by opening a web link and then pay any number of invoices via a credit card or EFT. Also, a user can easily create an automatic payment by clicking a payment link. This payment is automatically applied to the respective invoice or sales order.

This functionality is available in the out-of-the-box system (with no customization required) if the *Acumatica Payments* feature is enabled on the *Enable/Disable Features* (CS100000) form.

The following sections describe the UI changes and changes in document processing that have been made to support Acumatica payments.

Changes to the Enable/Disable Features Form

On the *Enable/Disable Features* (CS100000) form, the **Acumatica Payments** check box has been added under **Integrated Card Processing**. When the user selects the **Acumatica Payments** check box and then enables the set of features whose check boxes are selected, the Acumatica payment functionality becomes available in the system.

Changes to the Processing Centers Form

On the Processing Centers (CA205000) form, the following UI changes have been introduced:

• The **Create/Update Webhook** button (see Item 1 in the screenshot below) has been added to the form toolbar.

If a user clicks this button, the system checks whether webhooks have been created in both Acumatica ERP and the merchant account linked to the selected processing center. If no webhooks exist in both locations, the system creates a webhook. If a webhook has been created in only one of these places, the system updates the processing center webhook with the URL of the Acumatica ERP webhook.

Once webhooks have been created or updated, the **Webhook ID** box on the **Payment Links** tab will be populated with the ID of the Acumatica ERP webhook, and the created webhook will be marked as predefined in the database. A user will not be able to delete it on the *Webhooks* (SM304000) form.

- In the Payment Plug-In (Type) box, the Acumatica Payments plug-in option (Item 2) has been added. This
 option appears in the list if the Acumatica Payments feature is enabled on the Enable/Disable Features
 (CS100000) form.
- The Allow Payment Links check box (Item 3) has been added to the Summary area. The check box appears
 on the form if the plug-in selected in the Payment Plug-In (Type) box supports payment links. If this check
 box is selected, the new Payment Links tab (Item 4) appears on the form.

Processing Centers FORTIS	D NOTES ACTIVITIES FILES CUS	TOMIZATION TOOLS -								
← 🖺 🗎										
* Proc. Center ID:	FORTIS \wp Allow Saving Payment Profiles	^								
* Name: FORTIS Synchronize Deletion										
* Cash Account:	* Cash Account: 10600 - Credit Card Account 👂 🖉 🗹 Accept Payments from New Cards									
Currency:	Currency: USD Allow Unlinked Refunds									
Active										
* Payment Plug-In (Type): Acumatica Payments Plug-in 🔎 2										
PLUG-IN PARAMETERS PAYMENT METHODS PREFERENCES FEES PAYMENT LINKS										
× + ن										
₽ *ID	*Description	Value								
> APIKEY	API Secret Key	******								
HASHKEY	API User Hash Key	******								
LOCATIONID	Location ID	*******								
RFNDUNSTTL	Allow refund for unsettled transactions									
TESTMODE	The processing mode for the request. Select Live Mode to process live transactions or Test Mode to test your setup.	Test Mode								
USERID	API User ID	*******								
WEBHOOKPWD	Password for webhook authorization.	******								
WEBHOOKUSR	User name for webhook authorization.	wrwrerere12344								

Figure: UI changes on the Processing Centers form

On this tab (shown in the following screenshot), a user can specify the branches that will use the current processing center as the default one for the creation of payment links. For each branch, the user can specify the payment method and cash account that should be used for creating payments via the payment links.

Processing Centers FORTIS		Ľ	NOTES ACTIVITIES	FILES CUSTOMIZATION TOOLS -							
∽ 🖺 🛱 ∽ + 🗊	D → TEST CRED	ENTIALS UPDATE EXPIRA	TION DATES CREA	TE/UPDATE WEBHOOK							
* Proc. Center ID: FORTIS	* Proc. Center ID: FORTIS P Allow Saving Payment Profiles										
* Name: FORTIS		Synchronize Deletion									
* Cash Account: 10600 - Credit Card Account 🔎 🧷 🗹 Accept Payments from New Cards											
Currency: USD											
✓ Active ✓ Allow Payment Links											
* Payment Plug-In (Type): Acumatica Payments Plug-in P											
PLUG-IN PARAMETERS PAYMEN	NT METHODS () PREFE	RENCES FEES PAYME	NT LINKS								
✓ Allow Partial Payment											
Webhook ID: 5ac54e6c-fb91-4de9-	-979c-b04bc712c87a	0									
Č + × ⊢ ∑ t	J										
Search Use by Cred Default	dit Card Payment Method	Credit Card Cash Account	EFT Payment Method	EFT Cash Account							
> PRODRETAIL	STERCARD - Mastercard	10600R - Credit Card Account	EFT - EFT	10200 - Company Checking Account							
PRODWHOLE MAS	STERCARD - Mastercard	10600 - Credit Card Account	EFT - EFT	10200 - Company Checking Account							

Figure: The Payment Links tab on the Processing Centers form

The table contains the columns described in the following table.

Column	Description
Branch	The branch specified on the Financial tab of the <i>Invoices and Memos</i> (AR301000), <i>Invoices</i> (SO303000), or <i>Sales Orders</i> (SO301000) form for the invoice, sales invoice, or sales order to which the settings in the row will apply.
Use by Default	A check box that indicates (if selected) that the processing center should appear by default for the creation of payment links. A user can override this setting for a particular document.
	Only one default processing center can be selected for each combination of a branch and a currency.
Credit Card Payment Method	The payment method and its description, which will be used in a created pay- ment if a card payment for the payment link is received from the current pro- cessing center and if the related invoice or sales order originated in the branch defined for the row.
	The lookup table in this box displays payment methods that meet both of the following criteria:
	On the <i>Payment Methods</i> (CA204000) form, <i>Credit Card</i> is selected in the Means of Payment box
	 The current processing center is specified and active on the Processing Centers tab of the Payment Methods form
Credit Card Cash Account	The cash account and its description, which will be used along with the credit card payment method.
	The lookup table in this box displays cash accounts that meet both of the fol- lowing criteria:
	 The cash account is specified for the payment method on the Allowed Cash Accounts tab of the Payment Methods form.
	 The cash account is visible for the branch defined in the row—that is, this branch is selected for the cash account in the Branch column on the Al- lowed Cash Accounts tab.
EFT Payment Method	The payment method and its description, which will be used for payment cre- ation if an EFT payment for the payment link is received from the current pro- cessing center and if the related invoice or sales order originated in the branch defined for the row.
	The lookup table in this box displays cash accounts that meet both of the fol- lowing criteria:
	• On the <i>Payment Methods</i> form, <i>EFT</i> is selected in the Means of Payment box for the payment method.
	 The current processing center is specified and active for the payment method on the Processing Centers tab of the <i>Payment Methods</i> form.

Column	Description
EFT Cash Account	The cash account and its description, which will be used along with the <i>EFT</i> payment method.
	The lookup table in this box displays cash accounts that meet both of the fol- lowing criteria:
	 The cash account is specified for the payment method on the Allowed Cash Accounts tab of the Payment Methods form.
	 The cash account is visible for the branch defined in the row—that is, this branch is selected for the cash account in the Branch column on the Al- lowed Cash Accounts tab.

For each row in the table, one of the following combinations of columns must be filled in:

- Credit Card Payment Method and Credit Card Cash Account
- EFT Payment Method and EFT Cash Account

Changes to the Customer Classes Form

On the **General** tab of the *Customer Classes* (AR201000) form, the **Payment Link Settings** section has been added, as shown in the following screenshot.

Customer Classes KEY - Key Customer	'S					ACTIVITIES	FILES	CUSTOMIZATION	TOOLS -
< <p>Ξ</p>	- - û m +	K K	> >	INCLUD	E CUSTOMERS IN	RESTRICTION	GROUP		
· · · · ·									
* Class ID:	KEY	Q							^
Description:	Key Customers								
GENERAL GLACCO	UNTS DUNNING A	ATTRIBUTI	ES MAILIN	G & PRINTIN	G				
DEFAULT GENERAL SET	INGS		DEFAULT F	INANCIAL SI	ETTINGS				
Country:	US - United States of Ame	rica 🔎	Terms:		30D - 30 Davs	٥			
Restrict Visibility To:		~	Statemen	t Cycle ID:	EOM	Q			
Tax Zone ID:		Q	Payment	Method:	CHECK - Check	Q			
	Require Tax Zone				Auto-Apply Pay	/ments			
* Entity Usage Type:	Default	~			Apply Overdue	Charges			
	Require Entity Usage Ty	pe	Overdue	Charge ID:					
	Default Location ID from	Branch			Enable Write-O	offs			
Price Class:		Q	Write-Off	Limit:	50.00				
Default Restriction Group		Q	Currency	ID:	USD 🔎 🗹	Enable Currency	Override		
Salesperson ID:	SP0001 - Jason Mendenh	all ,P	Currency	Rate Type:	SPOT 🔎 🔲	Enable Rate Ove	rride		
DEFAULT DELIVERY SET	TINGS		Group/Do	cument Disco	50.00				
Ship Via:		Q			Pay by Line				
Shipping Terms:		Q			Apply Retainag	le			
Shipping Rule:	Back Order Allowed	~	DEFAULT I	PRINT AND E	MAIL SETTINGS				
DEFAULT CREDIT VERIFI	CATION SETTINGS		Send I	nvoices by En	nail Print Invoic	es			
Credit Verification:	Limit and Days Past Due	~	🗹 Send I	Dunning Lette	rs by Email 🗌 Prin	nt Dunning Letter	5		
Credit Limit:	300,000.00		Send S	Statements by	Email Print Sta	atements			
Over-Limit Amount:	0.00		Statemen	t Type:	Open Ite	em	~		
Credit Days Past Due:	90				Multi-C	Currency Stateme	nts		
			CREDIT C/	ARD PROCES	SSING SETTINGS				
			Save Pay	ment Profiles:	Always		~		
			PAYMENT	LINK SETTIN	GS				
					Exclud	le from Payment	Link Proces	ssing	
			Delivery I	Aethod:	None	~	🗌 Enabl	e Delivery Method Ov	verride
			Allowed N	leans of Payn	ments: EFT & C	Credit Card 🗸			

Figure: The Payment Link Settings section on the Customer Classes form

In this section, users can specify the settings for payment links. The section contains the UI elements shown in the following table.

Element	Description
Exclude from Payment Link Processing	This check box indicates (if selected) that the processing of payment links will be turned off for new customers of this class. With the check box selected, the Payment Links tab on the <i>Invoices and Memos</i> (AR301000) and <i>Invoices</i> (SO303000) forms will not appear; therefore, payment links will not be created for invoices and sales orders of these customers. By default, this check box is cleared for new customer classes, and after an up- grade to Acumatica ERP 2023 R2.

Element	Description
Delivery Method	The method of delivering payment links. This setting will be displayed in in- voices and sales orders of the customer as read-only if the Enable Delivery Method Override check box is cleared for the customer class. The following options are available:
	• <i>None</i> (default): The created payment links will not be automatically sent to the customers.
	• <i>Email</i> : The created payment links will be automatically sent to customers by using the email address defined in the Bill-To Contact section of the Addresses tab on the <i>Invoices and Memos</i> , <i>Invoices</i> , or <i>Sales Orders</i> (SO301000) form.
Enable Delivery Method Override	This check box indicates(if selected) that the delivery method for payment links can be overridden by the user for a particular invoice or sales order of a customer of the class.
Allowed Means of Payment	An option that indicates the payment methods available for the customer for using payment links. This setting is used along with the payment method set- up of the selected processing center. The following options are available:
	• <i>EFT & Credit Card</i> : Payment links can be created for the <i>EFT</i> and <i>Credit Card</i> payment methods. A customer can use both <i>EFT</i> and <i>Credit Card</i> payment methods to make a payment by clicking the created payment link.
	• <i>Credit Card</i> : Payment links can be created for the <i>Credit Card</i> payment method. A customer can use only the <i>Credit Card</i> payment method to make a payment by clicking the created payment link.
	• <i>EFT</i> : Payment links can be created for the <i>EFT</i> payment method. A customer can use only the <i>EFT</i> payment method to make a payment by clicking the created payment link.

On the Mailing & Printing tab of the Customer Classes form, the following entities have been added:

- The *Invoice Pay Link* mailing ID and the *Invoice Link* email template to send payment links for invoices in emails to customers if *Email* is selected in the **Delivery Method** box on the **General** tab.
- The Sales Order Pay Link mailing ID and the Sales Order Payment Link template to send payment links for sales orders to customers if *Email* is selected in the **Delivery Method** box on the **General** tab.

The template and the sender's email address can be defined for the customer class on the current form or for a customer on the *Customers* (AR303000) form. If the customer settings and customer class settings differ, the customer settings are used.

Changes to the Invoices and Memos and Invoices Forms

On the *Invoices and Memos* (AR301000) and *Invoices* (SO303000) forms, the **Payment Links** tab has been added, as shown in the following screenshots.

Invoices and Mem Invoice AR01	nvoices and Memos nvoice AR010822 - USA Bartending School												ES (3)	FILES	CUST	OMIZATION	TOOLS -
← [] []	Ś	+	Û	Ô v	K	<	>	Я	PAY								
Type:	Invoice	~		Customer		ABART	ENDE	- USA E	Bartendi	ng School	Ø	Detail To	tal:		55.55		^
Reference Nbr.:	AR01082	AR010822 P Location:			MAIN - Primary Location						Group ar	nd Do		0.00			
Status:	Open Currency:				USD 1.00 * VIEW BASE						VAT Taxa	able:		0.00			
Date:	6/26/2023 Terms:					30D - 30 Days						VAT Exe	mpt:		0.00		
Post Period:	06-2023	6-2023 * Due Date:				7/26/2023 ~						Tax Total	d:		0.00		
Customer Ord	* Cash Discount					7/26/2023 ~ Pay by Line						Balance:			55.55		
	Project/Contract:					X - Non-Project Code.					Ø	Amount:		55.55			
Description:												Cash Dis	iscount: 0.0		0.00		
DETAILS FI	INANCIAL	AD	DRES	ses -	TAXES	CO	MMISS	IONS	APF	PROVALS	DIS	COUNTS	PAY	MENT LI	NKS	APPLICATIO	DNS
Processing Cer	nter:	FORT	S - FO	RTIS								LINK					
Link Delivery Method: Email							SYNC PAYN	IENT L	LINK								
Payment Link: https://acumaticai2p05w.sand			.sandb	ox.zeamster.com/q RESEND PAYMEN					MENT	LINK							
Link Status:		Open															
		_	_		_						_						

Figure: The Payment Links tab on the Invoices and Memos form

Invoices Invoice AR01	0816 - /	Alta Ad	ce								NOTES	AC	стіvіт	IES (1)	FILI	ES	CUST	OMIZATI	ON	TOOLS -
← 🖓 🗎	Ś	+	Û	Ĉ	~	K	<	>	×											
Type:	Invoice	~		Cust	omer:		AACUS	ТОМЕ	R - Alta	Ace		0	De	tail Tota	al:		500	.00		^
Reference Nbr.:	AR0108	<i>ب</i> 6		Loca	tion:		MAIN - F	Primar	y Locat	ion			Di	scount ⁻	Total:		0	.00		
Status:	Open			Curre	ency:		USD	1.0	0	*	VIEW BASE		Fr	eight To	tal:		40	.00		
Date:	6/6/2023			Term	S:		30D - 30) Days					Та	x Total:			0	.00		
Post Period:	06-2023		,	Due	Date:		7/6/2023	3	-				Ba	lance:			40	.00		
Customer Ord			,	Cash	Disco	ount	7/6/2023	3 、	-				An	nount:			540	.00		
Project/Contract:	X - Non-	Project (Code.									0	Ca	sh Diso	ount:		0	.00		
Description:																				
DETAILS TA	XES	COMM	ISSIOI	NS	FRE	IGHT	FIN	ANCIA	L,	ADDR	ESSES D	ISCO	DUNT	S I	PAYME		NKS	APPLI	CATIO	NS
Processing Cen	iter:	FORT	S - FC	RTIS							CREATE PAYI	MENT	T LIN	<						
Link Delivery M	ethod:	Email									SYNC PAYM	ENT	LINK							
Payment Link:		https://	acuma	aticai2	p05w.s	sandb	ox.zeams	ter.con	n/q		RESEND PAY	MENT	T LIN	<						
Link Status:		Open																		
:																				

Figure: The Payment Links tab on the Invoices form

On the **Payment Links** tab, users can click the following buttons to process payment links:

• **Create Payment Link**: The system creates a payment link for the document. This button is available if the invoice is released and has the *Open* status, no open payment link exists for it, and a processing center is selected in the **Processing Center** box.

If a payment link is created for a sales invoice, the payment link created for the related sales order will be closed and no new payment links for the related sales order can be created (to avoid debt duplication).

• **Sync Payment Link**: The system syncs the payment link by pulling all payments made by using the current payment link from the processing center, comparing these payments with the payments in Acumatica ERP,

and creating the payments that are missing in the system. The system also checks whether the invoice requires synchronization—that is, whether the **Due Date** has been changed or the open amount has changed due to some payments that have not been made by using this payment link. If update is required, the system updates the payment link.

• **Resend Payment Link**: The system checks the link delivery method and sends an email from Acumatica ERP. This button is available only if *Email* is selected in the **Delivery Method** box on **General** tab of the *Customer Classes* (AR201000) form.

These changes appear on the forms if the *Acumatica Payments* feature is enabled on the *Enable/Disable Features* (CS100000) form and the **Exclude from Payment Link Processing** check box is cleared on the *Customer Classes* (AR201000) form for the class of the selected customer.

Changes to the Sales Orders Form

On the Sales Orders (SO301000) form, the **Payment Links** tab has been added, as shown in the following screenshot.

Sales Orders SO SO00680	9 - Alta	Ace												ACTI	VITIES (1)	FILES	CUSTOMIZA	TION T	00LS -
← [] []	S	+	Ō ~	K	<	>	Ы	QU	JICK PROCE	SS	CREAT	E SHIPMENT	HOLD						
* Order Type:	SO	Q	* Customer:		AACUS	TOME	R - Alta A	Ace	Q	0	Ordered	Qty.:	1.00						^
Order Nbr.:	SO00680	9,0	* Location:		MAIN -	Primary	/ Locatio	n	Q	Ø	Detail T	otal:	650.00						
Status:	Open		Contact:		Amelia	Armstro	ong		Q	0	Discour	t Total:	0.00						
* Date:	6/28/2023	s ~	Currency:		USD 🤇	P 1.0	D	•	VIEW BASE		Freight	Total:	0.00						
* Requested On:	6/28/2023	3 ~	* Project:		X - Non	-Projec	t Code.		Q	Ø	Tax Tota	ıl:	0.00						
Customer Ord	ord1111										Order T	otal:	650.00						
External Refer	3333										Est. Ma	rgin (%):	50.00						
Description:	ddd444										🖲 Est. Ma	rgin A	250.00						
											Unpaid	Balance:	650.00						
DETAILS TA	XES	сомм	ISSIONS FINA	NCIAL	. SI	HIPPIN	G A	DDR	RESSES	DISC	OUNTS	SHIPMENTS	PAYMEN	T LINKS	PAYM	ENTS	RELATIONS	TOTALS	6
Processing Cen	iter:	FORT	IS - FORTIS					(CREATE PAY	MEN	T LINK								
Link Delivery M	ethod:	Email							SYNC PAYN	1ENT	LINK								
Payment Link:		https:/	/acumaticai2p05w.s	andbo	x.zeams	ter.con	n/q		CLOSE PAY	MENT	LINK								
Link Status:		Open						F	RESEND PAY	MEN	T LINK								
								-		_									

Figure: The Payment Links tab on the Sales Orders form

On the **Payment Links** tab, users can click the following buttons to process payment links:

- **Create Payment Link**: The system creates a payment link for the sales order. This button is available if all of the following conditions are met:
 - The status of the sales order is *On Hold*, *Credit Hold*, *Awaiting Payment*, *Open*, *Pending Processing*, *Back Order*, or *Shipping*.
 - The sales order has an unpaid balance that is greater than 0.
 - No open payment link exists for the sales order.
 - No payment link exists for the sales invoices created for this sales order.

This button is unavailable if any of the following conditions is met:

- The **Processing Center** box is empty on the current tab.
- The status of the sales order is not one of the following: On Hold, Credit Hold, Awaiting Payment, Open, Pending Processing, Back Order, or Shipping.
- The sales order has 0.00 unpaid balance.
- An open payment link exists for the sales order.

After a payment link has been created, we recommend that users not edit sales order lines because each change will trigger the *SO Payment Link Update* business event, which may lead to unnecessary service loading and technical errors. If frequent changes of sales orders are required after payment link creation, you can do the following:

- a. On the *Business Events* (SM302050) form, clear the **Active** check box for the *SO Payment Link Update* business event.
- b. On the *Process Payment Links* (AR513500) form, schedule the synchronization of sales orders.
- Sync Payment Link: The system syncs the payment link by comparing the payments in Acumatica ERP with the payments made by using the current payment link from the processing center and creating the payments that are missing in the system. The system also checks if the sales order requires synchronization —that is, if the **Order Date** has been changed or the **Unpaid Amount** has changed due to some payments that have not been made by using this payment link. If an update is required, the system updates the payment link.

This button is available if the link has been created and open.

• **Close Payment Link**: The system closes the payment link for the sales order. This button is available if an open payment link exists for the sales order.

When the user clicks this button, the system checks if any payments have been made for the payment link in the processing center and are not yet created in Acumatica ERP, creates the missing payments, and closes the payment link.



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The user must close the payment link before canceling the sales order, deleting it, or changing its currency.

Resend Payment Link: The system checks the link delivery method and sends an email from Acumatica ERP. This button is available only if *Email* is selected in the **Delivery Method** box on **General** tab of the *Customer Classes* (AR201000) form.

Changes to the Process Orders Form

On the *Process Orders* (SO501000) form, the *Create Payment Link* option has been added to the **Action** box, as shown in the following screenshot. This option appears in the drop-down list if the *Acumatica Payments* feature is enabled on the *Enable/Disable Features* (CS100000) form.

P	00	ess	0	rders											cu	STOMIZATION	TOOLS -
c		0		PROC	ESS PROCES	SALL O	~ H	X	Y								ą
	Acti	on:			Create Payr	ment Link	-	Custom	ec	ABARTENDE	- USA Barten	di ,o					^
	Sele	ect By	y:		Ship Date		~	Carrier				Q					
	Stin	1 Dab	e		1/1/2023	¥.		Ship Via	÷			p					
	End	Date	8		7/19/2023												
	ALL	REC	COR	RDS	REQUESTED TH	IS MONTH											
-	0 0	D 0	3	Order Type	Order Nbr.	Description	Custome Nbr.	er Order	Status	Total Paid	Unpaid Balance	Terms	Requested On	Sched. Shipment	Customer	Customer Na	me
>	6 i	0 0	1	RM	SO006799				Open	0.00	500.00	30D	5/19/2023	5/19/2023	ABARTENDE	USA Bartend	ting School
		D T	3	so	SO006798				Open	0.00	510.00	30D	5/19/2023	5/19/2023	ABARTENDE	USA Bartend	ing School
									0	0.00	120.00						

Figure: The Create Payment Link action on the Process Orders form

When the user selects this action, the table is populated with the sales orders that are ready for payment link creation—that is, the sales orders that meet all of the following conditions:

• The Unpaid Balance amount is greater than 0.

- The status is one of the following: On Hold, Credit Hold, Awaiting Payment, Open, Pending Processing, Back Order, or Shipping.
- The customer specified in the sales order is not excluded from payment link processing.
- A processing center is specified for the sales order.

The Process Payment Links Form

The new *Process Payment Links* (AR513500) form displays AR invoices and sales invoices for which payment links can be created and AR invoices, sales invoices, and sales orders for which payment links can be synchronized.

Only users with at least one of the following roles will be able to access the form: *Administrator*, *Acumatica Support*, *AR Admin*, *AR Clerk*, and *SO Admin*.

The Process Payment Links form is shown in the following screenshot.

Process	Payment Lin	ks													CUSTOMI2	TOOLS
0 0	PROCESS	PROCESS	ALL 🕹 🗸	HX	Ϋ́.											
Action	Sync	Payment Link	v													
Customer	ABAR	TENDE - USA	Bartendi ,0													
B Selected	Branch	Document Type	Reference Nbr.	Customer	Customer Name	Customer Class	Document Date	Due Date	Document Total Amount	Unpaid Balance	Poyment Link Amount	Currency	Proc. Center ID	Status Date	Sync. Required	Error Message
>	PRODWHOLE	INV	AR010750	ABARTENDE	USA Bartending School	KEY	3/13/2023	4/12/2023	499.00	126.00	499.00	USD	FORTIS	4/14/2023		
	PRODWHOLE	INV	AR010751	ABARTENDE	USA Bartending School	KEY	3/13/2023	4/12/2023	499.00	399.00	399.00	USD	FORTIS	4/3/2023		
11	PRODWHOLE	INV	AR010789	ABARTENDE	USA Bartending School	KEY	4/25/2023	5/25/2023	100.00	37.00	87.00	USD	FORTIS	7/19/2023		
11	PRODWHOLE	INV	AR010799	ABARTENDE	USA Bartending School	KEY	5/3/2023	6/2/2023	100.00	100.00	100.00	USD	FORTIS	5/3/2023		
11	PRODWHOLE	INV	AR010804	ABARTENDE	USA Bartending School	KEY	5/3/2023	6/2/2023	100.00	50.00	100.00	USD	FORTIS	5/12/2023		
11	PRODWHOLE	INV	AR010822	ABARTENDE	USA Bartending School	KEY	6/26/2023	7/26/2023	55.55	55.55	55.55	USD	FORTIS	6/26/2023		
11	PRODWHOLE	INV	AR010826	ABARTENDE	USA Bartending School	KEY	7/7/2023	8/6/2023	1,000.00	1.000.00	1,000.00	USD	FORTIS	7/7/2023		The mapping
	PRODWHOLE	SC	S0006772	ABARTENDE	USA Bartending School	KEY	3/13/2023	3/13/2023	263.00	263.00	263.00	USD	FORTIS	4/3/2023		
	PRODWHOLE	SO	50006770	ABARTENDE	USA Bartending School	KEY	3/8/2023	3/8/2023	230.00	0 00	200.00	USD	FORTIS	4/3/2023	1	
	PRODWHOLE	SO	50006771	ABARTENDE	USA Bartending School	KEY	3/13/2023	3/13/2023	1,183.00	0 00	1,183.00	USD	FORTIS	4/3/2023	E	Error Anothe.
	PRODWHOLE	50	S0006788	ABARTENDE	USA Bartending School	KEY	4/24/2023	4/24/2023	120 00	120.00	120 00	USD	FORTIS	4/24/2023		
	PROOWHOLE	50	S0006792	ABARTENDE	USA Bartending School	KEY	5/3/2023	5/3/2023	120 00	0.00	120 00	USD	FORTIS	5/3/2023		
	PRODWHOLE	50	S0006793	ABARTENDE	USA Bartending School	KEY	5/3/2023	5/3/2023	120 00	40.00	120.00	USD	FORTIS	5/12/2023		

Figure: The Process Payment Links form

On this form, the user selects an action (*Create Payment Link* or *Sync Payment Link*), selects the needed documents in the table by selecting the check boxes in the unlabeled column, and clicks **Process** or **Process All** to perform the action on the selected document.

Changes in Reports

The following reports, which show print-friendly versions of documents, will contain a QR code for payment links and the *Pay now* link, shown in the screenshot below, if a payment link has been created for the document:

- Invoice/Memo (AR641000)
- Sales Order (SO641010)
- Invoice & Memo (SO643000)

The following screenshot shows an invoice printed on the Invoice/Memo report.

Λ		ica	l	nvoice	
	The Cloud ERP	ICd	F [[((Reference No.: Date: Due Date: Customer ID: Currency:	AR010826 07-Jul-2023 06-Aug-2023 ABARTENDE USD
Products Wholesale 11235 SE 6th St. Suite 140 Bellevue, WA, 98004 Phone: 206-555-1212 Web: www.revisiontwo.com	1				Pay now
BILL TO:		SHIP T	0:		
USA Bartending School 201 Lower Notch Rd Little Falls NJ 07424 United States of America Attn: Accounts Receivable		USA E 201 Li Little I United Attn: F	Bartending School ower Notch Rd Falls NJ 07424 d States of America Receiving	I	
CUSTOMER REF. NBR.	TERMS	С	ONTACT		
	30 Days				
NO. ITEM		QTY. UOM	UNIT PR	ICE DISC	. EXTENDED PRICE
		0.00			. 1,000.00
NOTE:				Sales Total:	1.000.00
				Less Discount:	0.00
				Tax Total:	0.00
				Total (USD):	1,000.00
				Cash Discount:	0.00
					Page: 1 of 1

Figure: An invoice with a payment link

New Business Events

To support the Acumatica payment functionality, the following business events have been added to the system and are active by default:

- AR Invoice Payment Link Create
- Invoice Payment Link Update
- SO Invoice Payment Link Create
- SO Payment Link Update

If an administrative user needs to disable if any of these actions, this should be done manually by clearing the **Active** check box in the Summary area of the *Business Events* (SM302050) form.

Processing of Payment Links

For open accounts receivable and sales invoices, the system automatically creates payment links via business events when these invoices are released. For sales orders with the *SO* behavior, payment links are created manually by the user on the *Process Orders* (SO501000) or *Sales Orders* (SO301000) form.

For payment links to be created automatically, the following conditions must be met:

- A processing center must be specified for the document on the **Payment Links** tab of the *Invoices and Memos* (AR301000), *Sales Orders*, or *Invoices* (SO303000) form.
- If the delivery method on the *Customer Classes* (AR201000) form is *Email*, a valid email address must be specified for the customer in the **Bill-To Contact** section on the **Addresses** tab of the *Invoices and Memos*, *Sales Orders*, or *Invoices* form.

For the manual creation of payment links, the user should do either of the following:

- For released invoices or sales invoices, click Create Payment Link on the Payment Links tab of the Invoices and Memos or Invoices form, respectively. Payment links for AR invoices and sales invoices also can be created on the Process Payment Links (AR513000) form.
- For sales orders, select Create Payment Link in the Action box on Process Orders (SO501000) form, select the required documents in the table, and click Process. Alternatively, the user can open each sales order on the Sales Orders form and create a payment link by clicking Create Payment Link on the Payment Links tab.

In Acumatica ERP, webbooks have been used to implement the receipt of payments that were made in the processing center by using payment links. The system receives information about all created payments from the processing center and processes those that were created by using payment links.

Once a payment link is created, synchronization for invoices and sales orders is automatic. Synchronization is triggered by any change made to the due date or amounts of the invoice or its lines, or changes to the unpaid balance for sales orders. Also, users can synchronize payment links manually on the *Invoices and Memos* (AR301000), *Invoices* (SO303000), and *Sales Orders* (SO301000) forms.

Once a payment link is fully paid or the invoice or sales order does not have an open balance, the payment link will be marked as closed in Acumatica ERP during the next sync. A payment link is closed automatically if a sales order is assigned the *Completed* status. Users can also close a payment link manually for a sales order at any time by clicking **Close Payment Link** on the **Payment Links** tab of the *Sales Orders* form.

If the invoice or sales order becomes open again (for example, if payment application was reversed), the **Create Payment Link** button becomes available again on the **Payment Links** tab of the respective form.

Additional Information

For more information about Acumatica Payments, see Acumatica Payments and To Configure Acumatica Payments.

For the overview of payment link processing, see *Processing of Payment Links*.

For information about the processing of payment links, see *To Create Payment Links for Invoices*, *To Create Payment Links for Sales Orders*, and *To Process Payment Links*.

Finance: AP Aging by Project Reports

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

In Acumatica ERP 2023 R2, the following new reports are available in the system if the *Projects* feature is enabled on the *Enable/Disable Features* (CS100000) form:

- AP Aging by Project (AP631200) report
- AP Aged Period-Sensitive by Project (AP630600) report

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

The *AP Aging by Project* report displays outstanding vendor balances and documents on a specified date based on the defined aging cycle. The documents and balances are divided into aging periods, and the balances are grouped by project and vendor.

A user can run the *AP Aging by Project* report in the following formats:

- Detailed: Displays an overview of vendors' outstanding balances and documents
- Summary: Displays an overview of vendors' outstanding balances as a total
- Detailed with Retainage: Displays an overview of vendors' outstanding balances with documents and their unreleased retainage on the **Age as of Date** that the user has specified on the *AP Aging by Project* report form for the calculation of document balances and aging categories

The *AP Aged Period-Sensitive by Project* report displays outstanding vendor balances on the end date of the particular financial period. Document balances are displayed based on the aging period, while the balance total is divided by vendor and project.

A user can run this report in the following formats:

- Detailed: Displays an overview of the vendors' outstanding balances and documents
- Summary: Displays an overview of the outstanding vendors' balances as a total

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

AP Aging by Project (Detailed) Report

The following screenshot shows the *AP Aging by Project* (AP631200) report in the *Detailed* format. Notice that the title ends with (*Detailed*) to indicate the format.

AP Aging b Company/Bran	y Project (D ch: PRODWH	etailed) HOLE		Vendor Cla	ISS: SERVICE	s				Page: Date: User:	1 of 1 5/9/2023 5:57 AM admin admin
				Aged On:	3/31/2023						
Project	De	scription				Project	t Manager				
x	No	n-Project Code.									
Vendor	Ve	ndor Name									
BLUELINE	Bl	ueline Advertiser	nents								
						_		Past D	ue		
Doc. Type	Ref. Number	Vendor Ref.	Branch	Due Date	Doc. Date	Current	1 - 7 Days	8 - 14 Days	15 - 30 Days	Over 30 Days	Balance
Bill	<u>003641</u>	ADVERT	PRODWHOLE	3/3/2023	2/1/2023	0.00	0.00	0.00	685,231.20	0.00	685,231.20
			Vend	or Total:		0.00	0.00	0.00	685,231.20	0.00	685,231.20
Vendor	Ve	ndor Name									
OCEANAIR	Oc	eanic Airlines									
						_		Past D	ue		
Doc. Type	Ref. Number	Vendor Ref.	Branch	Due Date	Doc. Date	Current	1 - 7 Days	8 - 14 Days	15 - 30 Days	Over 30 Days	Balance
Bill	003622	PO002049	PRODWHOLE	3/3/2023	2/1/2023	0.00	0.00	0.00	7,509.87	0.00	7,509.87
			Vende	or Total:		0.00	0.00	0.00	7,509.87	0.00	7,509.87
Vendor	Ve	ndor Name									
TRANSIT	Tra	ansit Transport									
						_		Past D	ue		
Doc. Type	Ref. Number	Vendor Ref.	Branch	Due Date	Doc. Date	Current	1 - 7 Days	8 - 14 Days	15 - 30 Days	Over 30 Days	Balance
Bill	003627	PO002045	PRODWHOLE	3/25/2023	2/23/2023	0.00	43,091.54	0.00	0.00	0.00	43,091.54
			Vend	or Total:		0.00	43,091.54	0.00	0.00	0.00	43,091.54
			Proje	ct Total:		0.00	43,091.54	0.00	692,741.07	0.00	735,832.61*
			Comp	oany Total:		0.00	43,091.54	0.00	692,741.07	0.00	735,832.61
* - The doc - Doci - Doci	cuments that har uments that are uments that hav	ve the Pay by Line associated with n ve the Under Recla	e check box cleare nultiple projects assification status	d and meet eith	her of the following	g criteria cannot	be aged by project:				

Figure: AP Aging by Project (Detailed) report

The detailed *AP Aging by Project* report provides the user with an overview of the outstanding vendor documents. For a particular project, the report shows how open documents are aged. In the detailed report, the documents are grouped by the project specified in AP documents and by the vendor.

The AP Aging by Project report contains the following information about total amounts:

- The total amounts for each aging bucket and for the **Balance** column of each vendor of the project (the **Vendor Total** box)
- The project total balance for all vendors in the report (the **Project Total** box)
- The sum of the **Balance** totals of all projects for vendors (the **Company Total** box)

AP Aging by Project (Summary) Report

The following screenshot shows the *AP Aging by Project* (AP631200) report in the *Summary* format. Notice that the title ends with (*Summary*) to indicate the format.

AP Aging by Project (summary) CompanyBranch: PRODWHOLE PRODWHOLE Wendor Class: SERVICES Use: serviceS Use: serviceS Use: serviceS Project Description Aged On: 3/31/2023 Project Code. Wendor Name Current 1 - 7 Days 8 - 14 Days 15 - 30 Days Over 30 Days Balance BULEINE Bueline Adventsements 0 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
Company/Branch: PRODUVHOLE Date: SerVICES User: admini admini Aged On: 3/31/2023 3/31/2023 SERVICES User: admini admini Project Description Project Manager X Non-Project Code. SerVICES SerVICES <th>AP Aging by P</th> <th>roject (Summary)</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Page:</th> <th>1 of 1</th>	AP Aging by P	roject (Summary)							Page:	1 of 1
Vendor Class: SERVICES User: admin.admin Aged On: 3/31/2023 Project Description K Non-Project Code. Vendor Name Current 1 - 7 Days 8 - 14 Days 15 - 30 Days Over 30 Days Balance BLUELNE BLUEINE BLUEIN	Company/Branch:	PRODWHOLE		0550 4050					Date:	5/9/2023 6:04 AM
Project Description Project Code. Vendor Vendor Name Current 1.7 Days 8.14 Days Balance DCEALANDR Doug 0.00 0.00 0.00 0.00 7509 87 0.00 7509 87 DCEALANDR Ocean Antines 0.00 43,091 54 0.00 695,231 20 0.00 7509 87 0.00 7509 87 0.00 7509 87 0.00 7509 87 0.00 7509 87 0.00 7509 87 0.00 7509 87 0.00 7509 87 0.00 7509 87 0.00 7509 87 0.00 7509 87 0.00 7509 87 0.00 7509 87 0.00 7509 87 0.00 7509 87 0.00 7509 87 0.00 755,852,61 Project Total: 0.00 43,091,54 0.00 692,741,07 0.00 735,852,61 Company Total: 0.00 43,091,54 0.00 692,741,07 0.00 735,852,61			Vendor Class:	SERVICES					User:	admin admin
Project Description Non-Project Code. X Non-Project Code. Vendor Name Current 1-7 Days 6-14 Days 15-30 Days Balance BULEINE BULEINE BULEINE Codemin Code Code Code Code Code Code Code Code			Aged On:	3/31/2023						
* The documents that have the Pay by Line check box cleared and meet either of the following criteria cannot be aged by project: • Documents that have the Pay by Line check box cleared and meet either of the following criteria cannot be aged by project: • Documents that are associated with multiple projects • Documents that have the Pay by Line check box cleared and meet either of the following criteria cannot be aged by project:	Droject	Description			Droject	Managor				
A Roll-Project Code. Vendor Vendor Name Current 1.7 Days 8.14 Days 15.30 Days Over 30 Days Balance USLINE Bluelin Activerisments 0.00 0.00 0.00 685.231.20 0.00 685.231.20 0.00 685.231.20 0.00 685.231.20 0.00 685.231.20 0.00 685.231.20 0.00 685.231.20 0.00 685.231.20 0.00 685.231.20 0.00 685.231.20 0.00 685.231.20 0.00 685.231.20 0.00 685.231.20 0.00 685.231.20 0.00 685.231.20 0.00 685.231.20 0.00 43.091.54 0.00 0.00 0.00 0.00 43.091.54 VENANSIT Transit Transport 0.00 43.091.54 0.00 692.741.07 0.00 735,832.61 Company Total: 0.00 43.091.54 0.00 692.741.07 0.00 735,832.61 Company Total: 0.00 43.091.54 0.00 692.741.07 0.00 735,832.61	v	Nep Project Code			FIOJECT	wanager				
Vendor Vendor Name Current 1.7 Days Past Due Desk Due BlueLINE Buleline Advertisements 0.00 0.00 0.00 0.00 0.00 0.00 0.00 750,927 0.00 750,927 0.00 750,927 0.00 750,927 0.00 750,927 0.00 750,927 0.00 750,927 0.00 750,927 0.00 750,927 0.00 750,927 0.00 750,927 0.00 750,927 0.00 750,927 0.00 750,927 0.00 750,927 0.00 750,927 0.00 750,927 0.00 750,922,611 Project Total: 0.00 43,091,54 0.00 692,741,07 0.00 735,832,611 Company Total: 0.00 43,091,54 0.00 692,741,07 0.00 735,832,611	^	Non-Project Code.					De et De			
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Oceanic Atlines 0.00 0.00 0.00 0.00 0.00 0.00 0.00 43.09154 0.00 43.09154 0.00 43.09154 0.00 43.09154 0.00 43.09154 0.00 75.09.87 0.00 43.09154 0.00 0.00 0.00 43.09154 0.00 43.09154 0.00 992,741.07 0.00 735.832.61 * The documents that have the Pay by Line check box cleared and meet either of the following criteria cannot be aged by project: 0.00 43.091.54 0.00 692,741.07 0.00 735.832.61 * - The documents that have the Pay by Line check box cleared and meet either of the following criteria cannot be aged by project: 0.00 0.00 692,741.07 0.00 735.832.61 • Documents that are associated with multiple projects: • Documents that are associated with multiple projects • Documents that are associated with multiple projects • Documents that have the Under Reclassification status • Documents that have the Under Reclassification status • Documents that have the Under Reclassification status • Documents that have the Pay by Line check box cleared and meet either of the following criteria cannot be aged by project: • Documents thatare associated with multiple projects • Documents	BLUELINE	Blueline Advertisements			0.00	0.00	0.00	685 231 20	0.00	685 231 20
Transit Transport 0.00 43.091.54 0.00 992,741.07 0.00 735,832.61* Company Total: 0.00 43.091.54 0.00 692,741.07 0.00 735,832.61* * - The documents that have the Pay by Line check box cleared and meet either of the following criteria cannot be aged by project: 0.00 43.091.54 0.00 692,741.07 0.00 735,832.61*	OCEANAIR	Oceanic Airlines			0.00	0.00	0.00	7,509.87	0.00	7,509.87
 Project Total: 0.00 43,091.54 0.00 692,741.07 0.00 735,832.61 Company Total: 0.00 43,091.54 0.00 692,741.07 0.00 735,832.61 	TRANSIT	Transit Transport			0.00	43,091.54	0.00	0.00	0.00	43,091.54
 • The documents that have the Pay by Line check box cleared and meet either of the following criteria cannot be aged by project: • Documents that have the Pay by Line check box cleared and meet either of the following criteria cannot be aged by project: • Documents that are associated with multiple projects • Documents that are the Under Reclassification status 			Project Total:		0.00	43,091.54	0.00	692,741.07	0.00	735,832.61*
 The documents that have the Pay by Line check box cleared and meet either of the following criteria cannot be aged by project: Documents that are associated with multiple projects Documents that are associated with multiple projects 			Company Total:		0.00	43,091.54	0.00	692,741.07	0.00	735,832.61
 The documents that have the Pay by Line check box cleared and meet either of the following criteria cannot be aged by project: Documents that are associated with multiple projects Documents that have the Under Reclassification status 										
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 The documents that have the Pay by Line check box cleared and meet either of the following criteria cannot be aged by project: Documents that are associated with multiple projects Documents that have the Under Reclassification status 										
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Documents that are associated with multiple projects Documents that have the Under Reclassification status	 The docume 	ents that have the Pay by Line check b	iox cleared and meet either of	the following c	meria cannot b	e aged by project:				
- Documents that have the Onder Reclassification status	- Docume	nts that are associated with multiple p	rojecis							
	- Docume	nis that have the onder Reclassification	on status							

Figure: AP Aging by Project (Summary) report

The summary *AP Aging by Project* report provides the user with an overview of the outstanding vendor balances. For a particular project, the report shows how open documents are aged. In this format of the report, the vendor balances are grouped by the project specified for AP documents.

The summary AP Aging by Project report contains the following information about total amounts:

- The sum of the **Balance** totals for a particular project (the **Project Total** box)
- The sum of the **Balance** totals of all projects for vendors (the **Company Total** box)

AP Aging by Project (Detailed with Retainage) Report

The following screenshot illustrates the *AP Aging by Project* (AP631200) report in the *Detailed with Retainage* format. Notice that the title ends with (*Detailed with Retainage*) to indicate the format.

AP Aging b	y Project (D	etailed with R	Retainage)										Page:	1 of 1
Company/Bran	ich: PRODWH	IOLE											Date:	5/9/2023 6:07 AM
					Vendor Cla	ass:	SERVICES						User:	admin admin
					Aged On:		3/31/2023							
Project	De	scription						Projec	ct Manager					
x	No	n-Project Code.												
Vendor	Ve	ndor Name												
BLUELINE	Bl	ueline Advertiser	nents										Balance	685,231.20
								_			Past Di			
Doc. Type	Ref. Number	Vendor Ref.	Branch		Due Date	Doc. Da	ate	Current	1 - 7 Da	ys	8 - 14 Days	15 - 30 Days	Over 30 Days	Unreleased Retainage
Bill	<u>003641</u>	ADVERT	PRODWH	IOLE	3/3/2023	2/1/20	23	0.00	0.	00	0.00	685,231.20	0.00	0.00
				Vendor	Total:			0.00	0.	.00	0.00	685,231.20	0.00	0.00
Vendor	Ve	ndor Name												
OCEANAIR	Oc	eanic Airlines											Balance	7,509.87
								_			Past Di			
Doc. Type	Ref. Number	Vendor Ref.	Branch		Due Date	Doc. Da	ite	Current	1 - 7 Da	iys	8 - 14 Days	15 - 30 Days	Over 30 Days	Unreleased Retainage
Bill	003622	PO002049	PRODWH	IOLE	3/3/2023	2/1/20	23	0.00	0.	00	0.00	7,509.87	0.00	0.00
			Ī	Vendor 1	Total:			0.00	0.	.00	0.00	7,509.87	0.00	0.00
Vendor	Ve	ndor Name												
TRANSIT	Tra	ansit Transport											Balance	43,091.54
								-			Past Di			
Doc. Type	Ref. Number	Vendor Ref.	Branch		Due Date	Doc. Da	ite	Current	1 - 7 Da	iys	8 - 14 Days	15 - 30 Days	Over 30 Days	Unreleased Retainage
Bill	003627	PO002045	PRODWH	IOLE :	3/25/2023	2/23/20	23	0.00	43,091.	.54	0.00	0.00	0.00	0.00
			Ī	Vendor 1	Total:			0.00	43,091.	.54	0.00	0.00	0.00	0.00
			I	Project 1	Total:			0.00	43,091.	.54	0.00	692,741.07	0.00	0.00*
			Ō	Compan	y Total:			0.00	43,091.	.54	0.00	692,741.07	0.00	0.00
* - The doo	cuments that have	ve the Pay by Line associated with m	e check box d	cleared a	nd meet eit	ther of th	e tollowing o	riteria canno	t be aged by pro	oject:				
- 000	umento triat die	associated with h	indiaple projec	10										
- Doci	uments that hav	e the Under Recla	assification st	atus										

Figure: AP 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 *AP Aging by Project* report form for the calculation of document balances and aging categories. For a particular project, the report shows how open documents are aged. The documents of the report are grouped by the project assigned to AP documents and by the vendor.

The report contains the following information:

- The sum of aging bucket total amounts in the **Vendor Total** section (the **Balance** box in the **Vendor** header)
- The total amounts for each aging bucket and for the **Unreleased Retainage** column of each vendor of the project (the **Vendor Total** box)
- The sum of the **Unreleased Retainage** totals and the aging bucket total for a project (the **Project Total** box)
- The sum of the **Unreleased Retainage** totals and the aging bucket total for all project and all vendors (the **Company Total** box)

AP Aged Period-Sensitive by Project (Detailed) Report

The following screenshot illustrates the *AP Aged Period-Sensitive by Project* (AP630600) report in the *Detailed* format. Notice that the title ends with (*Detailed*) to indicate the format.

AP Aged Pe Company/Bran	eriod-Sensiti ch: PRODWH	ve by Projec	t (Detailed)	Financial Period:	03-2023					Page: Date: User:	1 of 1 5/9/2023 6:20 AM admin admin
				Vendor Class:	SERVICES						
				Aged On:	3/31/2023						
Project	De	scription				Project	t Manager				
x	No	n-Project Code.									
Vendor	Ver	ndor Name									
BLUELINE	Blu	eline Advertise	ments								
								Deat Due			
Doc Type	Ref Number	Vendor Ref	Branch	Due Date Doc	Date	Current	1 - 7 Days	Past Due 8 - 14 Days	15 - 30 Days	Over 30 Days	Balance
Bill	003641	ADVERT	PRODWHOLE	3/3/2023 2/1/	2023	0.00	0.00	0.00	685,231.20	0.00	685,231.20
			Vendo	r Total:		0.00	0.00	0.00	685,231.20	0.00	685,231.20
Vendor	Ver	ndor Name									
OCEANAIR	Oc	eanic Airlines									
						_		Past Due			
Doc. Type	Ref. Number	Vendor Ref.	Branch	Due Date Doc.	Date	Current	1 - 7 Days	8 - 14 Days	15 - 30 Days	Over 30 Days	Balance
BIII	003622	PO002049	PRODWHOLE	3/3/2023 2/1/	2023	0.00	0.00	0.00	7,509.87	0.00	7,509.87
			vendo	r Iotal:		0.00	0.00	0.00	7,509.87	0.00	7,509.87
Vendor	Ver	ndor Name									
TRANSIT	Tra	nsit Transport									
								Past Due			
Doc. Type	Ref. Number	Vendor Ref.	Branch	Due Date Doc.	Date	Current	1 - 7 Days	8 - 14 Days	15 - 30 Days	Over 30 Days	Balance
Bill	003627	PO002045	PRODWHOLE	3/25/2023 2/23/	2023	0.00	43,091.54	0.00	0.00	0.00	43,091.54
			Vendo	r Total:		0.00	43,091.54	0.00	0.00	0.00	43,091.54
			Projec	t Total:		0.00	43,091.54	0.00	692,741.07	0.00	735,832.61*
			Compa	any Total:		0.00	43,091.54	0.00	692,741.07	0.00	735,832.61
t The dee	umonto that have	o the Dev by Lin	a abaak bay alaarad	and most sither of	the following or	itoria connet	he aged by preject:				
- me uuu	uments that are	associated with n	nultiple projects	and meet ennel of	and ronowing cr	teria caniful	ne agea by project.				
- Docu	uments that have	e the Under Recla	assification status								
1											

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

The detailed *AP Aged Period-Sensitive by Project* report provides the user with an overview of the outstanding vendor documents. At the end date of the particular financial period, the report shows how open documents are aged. In the detailed *AP Aged Period-Sensitive by Project* report, the system groups the documents by the project assigned to AP documents and by the vendor.

The report contains the following information:

- The total amounts for each aging bucket and for the **Balance** column of each vendor of the project (the **Vendor Total** box)
- The sum of the **Balance** totals in the project (the **Project Total** box)
- The sum of the **Balance** totals of all projects (the **Company Total** box)

AP Aged Period-Sensitive by Project (Summary) Report

The following screenshot illustrates the *AP Aged Period-Sensitive by Project* (AP630600) report in the *Summary* format. Notice that the title ends with *(Summary)* to indicate the format.

AP Aged Perio Company/Branch:	d-Sensitive by Project (Summar PRODWHOLE) Financial Period:	03-2023					Page: Date: User:	1 of 1 5/9/2023 6:28 AM admin admin
		Vendor Class:	SERVICES						
		Aged On:	3/31/2023						
Project	Description			Project	Manager				
x	Non-Project Code.								
				_		Past Due			
Vendor	Vendor Name			Current	1 - 7 Days	8 - 14 Days	15 - 30 Days	Over 30 Days	Balance
BLUELINE	Blueline Advertisements			0.00	0.00	0.00	685,231.20	0.00	685,231.20
OCEANAIR	Oceanic Airlines			0.00	0.00	0.00	7,509.87	0.00	7,509.87
TRANSIT		roject Total:		0.00	43,091.54	0.00	692 741 07	0.00	43,091.34
	·	omnany Total:		0.00	43,091.54	0.00	692 741 07	0.00	735 832 61
	Ľ	ompany rotan		0.00	40,00 1104	0.00	002,141101	0.00	100,002.01
* - The docume	ents that have the Pay by Line check box cl	eared and meet either of t	he following crit	eria cannot	be aged by project:				
- Documer	nts that are associated with multiple project	S							
- Documer	nts that have the Under Reclassification sta	tus							

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

The summary *AP Aged Period-Sensitive by Project* report provides the user with an overview of the outstanding vendor balances. At the end date of a particular financial period, the report shows how open documents are aged. In the summary report, the documents are grouped by a project assigned to AP documents.

The report contains the following information:

- The sum of the **Balance** totals in the project (the **Project Total** box)
- The sum of the Balance totals of all projects (the Company Total box)

Documents That Cannot Be Aged by Project

In Acumatica ERP, some documents cannot be grouped under a specific project in the *AP Aging by Project* (AP631200) and *AP Aged Period-Sensitive by Project* (AP630600) reports for reasons described in this section.

When creating a bill on the *Bills and Adjustments* (AP301000) form, a user can select the **Pay by Line** check box, which indicates that for the selected document, payments can be applied to individual document lines. If the check box is cleared, payments can be applied only to the outstanding balance of the entire document.

If the user clears the **Pay by Line** check box on the *Bills and Adjustments* form when entering the bill and all the lines of the document have a single project code, the documents can be grouped under a particular project in the *AP Aging by Project* and *AP Aged Period-Sensitive by Project* reports.

However, the documents will be displayed under the *Project X* in the *AP Aging by Project* and *AP Aged Period-Sensitive by Project* reports and a warning message indicating that the documents cannot be aged by project appears in the footer of the *AP Aging by Project* or *AP Aged Period-Sensitive by Project* report if the **Pay by Line** check box is cleared for these documents and the documents meet either of the following criteria:

- The documents are associated with multiple projects.
- The documents have the Under Reclassification status.
Finance: Cash Discounts and Terms in Debit Adjustments

In previous versions of Acumatica ERP, it was not possible for users to specify the due date in debit adjustments that were created in the system. As a result, the debit adjustments that appeared in AP aging reports had due dates that were the same as the current date and could not be used in cash flow forecasting. Also, users could not specify a cash discount for a debit adjustment. As a result, if the original bill with a cash discount was reversed, the created debit adjustment did not have the cash discount that the bill had.

To address these issues, in Acumatica ERP 2023 R2, the use of credit terms can be enabled for debit adjustments, and users can create debit adjustments with cash discounts.

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

Changes to the Accounts Payable Preferences Form

The following UI changes have been made on the **General** tab of the *Accounts Payable Preferences* (AP101000) form:

- In the **Data Entry Settings** section, the **Use Credit Terms in Debit Adjustments** check box (see Item 1 in the following screenshot) has been added. If this check box is selected, credit terms can be specified for debit adjustments created on the *Bills and Adjustments* (AP301000) form. These debit adjustments can be subject to cash discounts.
- In the VAT Recalculation Settings section, the Debit Adjustment Description has been renamed to VAT Adjustment Description (Item 2), because now debit adjustments and credit adjustments can be generated to adjust VAT on early payments.

Accounts Payable Prefere	ences			NOTE:	6 FILES	CL	ISTOMIZATION	TOOLS -
GENERAL PRICING APP	ROVAL 1099 SETTINGS	MAII	LING & PRINTING					
NUMBERING SETTINGS			DATA ENTRY SETTINGS					
* Batch Numbering Sequence:	BATCHAP - AP Batch 🖉	0	Default Vendor Class ID:			Q	0	
* Bill Numbering Sequence:	APBILL - AP BIII ,0	0	* Combine Expense Sub. From:	10-01				
* Debit Adjustment Numbering Se	APBILL - AP BIII	0	Use Intercompany Expense Account From	Inventory Item		~		
* Credit Adjustment Numbering S	APBILL - AP BIII	0	Payment Lead Time:	7 Days				
* Payment Numbering Sequence:	APPAYMENT - AP Payment 9	0		Hold Docum	ents on Entr	/		
* Price Worksheet Numbering Se	APPRICEWS - AP Price Work &	0		Require App	roval of Bills	Prior t	o Payment	
POSTING SETTINGS				<mark>Z</mark> Enable Early	Checks			
Automatically Post on Release				Validate Doc	ument Totals	on Er	ntry	
Post Summary on Updating GL				Set Zero Pa	ment Amou	nt to Ap	oplication Amour	nt
Activate Migration Mode				🗸 Require Ven	dor Referen	e		
Allow Bill Reclassification				Raise an Err	or on Duplic	ate Ver	ndor Reference I	Number
AGING SETTINGS				Require Sing	gle Project pe	er Doci	ument	
Aging Period 1:	7 Days		Γ	🗸 Use Credit T	erms in Debi	t Adjus	stments	
Aging Period 2:	14 Days		RETAINAGE SETTINGS					
Aging Period 3:	30 Days			Retain Taxes	3			
				Automatical	y Release R	etainag	ge Documents	
			VAT RECALCULATION SETTINGS					
			VAT Adjustment Description: 2					

Figure: UI changes on the Accounts Payable Preferences form

Changes to the Bills and Adjustments Form

If the **Use Credit Terms in Debit Adjustments** check box is selected on the *Accounts Payable Preferences* (AP101000) form, the following changes occur for a document with the *Debit Adj.* type on the *Bills and Adjustments* (AP301000) form:

• The **Terms** box (see Item 1 in the screenshot below) becomes available. By default, the system inserts the credit terms assigned to the vendor on the *Vendors* (AP303000) form, but the user can override this setting (or clear the box; this setting is optional).

If the user clears the **Terms** box, the system will clear the **Due Date** and **Cash Discount Date** boxes, set the **Cash Discount** box to 0.00, and make these three boxes unavailable.

- The **Due Date** and **Cash Discount Date** boxes (Item 2) become available. As is the case with bills, the system calculates the dates in these boxes based on the selected credit terms and the document date.
- The **Cash Discount** box (Item 3) becomes available. If credit terms with a cash discount are selected in the **Terms** box, this box displays the cash discount calculated by the system, which will be applied if the document is paid before the **Cash Discount Date**.

Bits and Adjustme Debit Adj. 003	ints 3649 - Go	oto Ve	endor Inc									D NOTES	CTIVITIES	FILES	CUSTOMIZATION	TOOLS .
6 0 0	\$	+	B D - K	< >	> REMOVE HO	LD										
Туре	Debit Adj	*	Vendor	AAVENDOR - Ge	to Vendor Inc	0	Detail Total		1,000.00							^
Reference Nbr	003649	,p	Location	MAIN - Primary L	ocation	p	Discount Total		0.00							
Status	On Hold		· Currency:	USD ,0 1.00	· VIEW BAS	ε	Retainage Total	E	0.00							
* Date:	7/12/2023	~	1 Terms:	310N30 - 3% 10	Days - Net 30	Q	Tax Total		0.00							
* Post Period.	07-2023	P	• Due Date:	8/11/2023 -	Apply Retainage		With Tax.		0.00							
Vendor Ref			. Cash Discount .	7/22/2023 ~	Pay by Line		Belance:		1,000.00							
Description							Cash Discount		30.00							
DETAILS F	INANCIAL	TAX	ES APPROVALS	DISCOUNTS	APPLICATIONS.											
0 + 0	×	VIEW	DEFERRALS ADD	PO RECEIPT	Annie H. B	1 J	5									
B là D *Branct	n in	ventory	1D Transaction De	scr. Quant	ty UOM	Unit Cost	Ext. Cost	Discount Amount	Amount	Account	Description	* Subaccount	* Project		Project Task	Non Billiable
> & D PROD	WHOLE			0.0	0	0.00	1.000.00	0.00	1,000.00	50000	COGS - Inventory	000-000	х			

Figure: UI changes on the Bills and Adjustments form

Changes to the Processing of Debit Adjustments

The following table shows the availability of the **Terms**, **Cash Discounts Date**, **Due Date**, and **Cash Discount** boxes depending on the status of the existing debit adjustment that the user opens on the *Bills and Adjustments* (AP301000) form.

Debit Adjustment Status	Terms	Due Date	Cash Discount Date	Cash Discount
Unreleased (On Hold, Bal- anced, or Scheduled)	Available	Available	Available	Available
Released (Open)	Unavailable	Available	Available	Unavailable
Closed (Closed or Voided)	Unavailable	Unavailable	Unavailable	Unavailable

When a user creates a debit adjustment by copying an existing one, the system inserts the settings as follows:

• If the **Use Credit Terms in Debit Adjustments** check box is selected on the *Accounts Payable Preferences* (AP101000) form, the **Terms** is copied from the original document, if specified; otherwise, the **Terms** is copied from the vendor's settings. The values in the **Cash Discount Date**, **Due Date**, and **Cash Discount** boxes are calculated based on these terms. All these boxes are available.

• If the **Use Credit Terms in Debit Adjustments** check box is cleared on the *Accounts Payable Preferences* form, the **Terms, Cash Discount Date**, and **Due Date** settings are empty, and the **Cash Discount** is 0.00. All these boxes are unavailable.

When the user creates a debit adjustment by reversing a bill or a credit adjustment, the system inserts the settings as follows:

- If the **Use Credit Terms in Debit Adjustments** check box is selected on the *Accounts Payable Preferences* (AP101000) form, the **Terms, Cash Discount Date**, **Due Date**, and **Cash Discount** settings are copied from the original document, and these boxes are available.
- If the **Use Credit Terms in Debit Adjustments** check box is cleared on the *Accounts Payable Preferences* form, the **Terms, Cash Discount Date**, and **Due Date** settings are empty, and the **Cash Discount** is 0.00. All these boxes are unavailable.

When the user creates a credit adjustment by reversing a debit adjustment, the system inserts the settings as follows:

- If the debit adjustment has credit terms specified, its **Terms**, **Cash Discount Date**, **Due Date**, and **Cash Discount** settings are copied to the credit adjustment.
- If the debit adjustment has no credit terms specified, the **Terms** are copied from the vendor settings, and the **Cash Discount Date**, **Due Date**, and **Cash Discount** settings are calculated based on these terms.

If a debit adjustment created on the *Bills and Adjustments* form has credit terms specified in the **Terms** box and the **Pay by Line** check box is selected, the amount in the **Cash Discount** box is distributed among all the document lines.

If a debit adjustment created on the *Bills and Adjustments* form has credit terms of the *Multiple* installment type, cash discounts are not supported. In other words, the **Cash Discount** is set to 0.00 and disabled. If the user changes the credit terms in the **Terms** box, the system will recalculate the **Cash Discount** value depending on the selected credit terms.

For debit adjustments created automatically by the system on the *Expense Claim* (EP301000) and *Purchase Receipts* (PO302000) forms, imported via an import scenario, or imported via the API, the system fills in the **Terms**, **Cash Discount Date**, **Due Date**, and **Cash Discount** boxes as follows:

- If the Use Credit Terms in Debit Adjustments check box is selected on the Accounts Payable Preferences form, these boxes are available; the system copies the Terms from the vendor's settings, and the other settings are calculated based on these terms.
- If the **Use Credit Terms in Debit Adjustments** check box is cleared on the *Accounts Payable Preferences* form, these boxes are empty and unavailable.

Changes to the Checks and Payments Form

On the **Application History** tab of the *Checks and Payments* (AP302000) form, the **VAT Debit Adj.** column has been renamed to **VAT Adj.** This column displays a link to a VAT adjustment. If the user clicks this link, the system opens the selected debit adjustment or credit adjustment on the *Bills and Adjustments* (AP301000) form.

Changes to the Generate VAT Debit Adjustments Form

The *Generate VAT Debit Adjustments (AP504500)* form has been renamed to *Generate VAT Adjustments* (AP504500). This form is now used for the generation of debit adjustments and credit adjustments. The following UI changes (also shown in the screenshot below) have been made to the form:

- The **Consolidate Debit Adjustments by Vendor** check box has been renamed to **Consolidate VAT Adjustments by Vendor** (see Item 1 in the screenshot below). If this check box is selected, the system will create one credit adjustment for multiple debit adjustments. If the table contains multiple documents (any combination of bills, credit adjustments, and debit adjustments), all for the same vendor, when the user clicks **Process All** on the form toolbar, the system will create the following documents:
 - One debit adjustment for the selected bills and credit adjustments

- One credit adjustment for the selected debit adjustments
- The Debit Adjustment Date box has been renamed to VAT Adjustment Date (Item 2).

G	Sen	era	ate '	VAT Adjustme	nts									CUS	TOMIZATION	TOOLS -
Ċ	5	ć	2	PROCESS PF	ROCESS ALL	0 ~ +	→ X	Y								
	• Da	te:		7/14/2023	v		Consolida	te VAT Adjus	tments	by Vendor	0					^
	Bra	anch	0	PRODWHOL	E - Products Wh 🔎	* VA	T Adjustm	ent Date:	7/14/3	2023 ~	2					
	Ve	ndor			ې	* Fin	. Period:		07-20	23	Q					
8	0	D		Branch	Vendor	Document	Туре	Reference M	Nbr.	Doc. Date	Currency	Amount	Cash Discount	Credit Terms	Payment Ref Nbr.	erence
>	0	D		PRODWHOLE	FOODETISUP	Bill		003662		7/11/2023	USD	3,852.00	115.56	310N30	002333	
	0	۵		PRODWHOLE	FOODETISUP	Debit Adj.		<u>003661</u>		7/13/2023	USD	428.00	12.84	310N30	002333	

Figure: UI changes on the Generate VAT Adjustments form

The system also includes debit adjustments with credit terms in the list of documents shown in the table of the form.

When the user selects the unlabeled check box for any number of debit adjustments and clicks **Process** on the form toolbar, the system creates a credit adjustment for each debit adjustment and fills in its settings as follows:

- The **Terms** setting is filled in by default from the vendor's settings.
- If the debit adjustment has credit terms with a cash discount, the system copies **Terms** from the vendor settings, but it creates a credit adjustment without a cash discount. That is, the credit adjustment's **Cash Discount Date** is the same as the **Due Date**, and the **Cash Discount** is set to 0.00.

When the user selects the unlabeled check for a credit adjustment or a bill and clicks **Process** on the form toolbar, the system creates a debit adjustment and fills in its settings as follows:

- If the **Use Credit Terms in Debit Adjustments** check box is selected on the *Accounts Payable Preferences* (AP101000) form, the credit terms are copied from the vendor's settings.
- If the **Use Credit Terms in Debit Adjustments** check box is cleared on the *Accounts Payable Preferences* (AP101000) form, no credit terms are specified.

Regardless of the state of the **Use Credit Terms in Debit Adjustments** check box, the debit adjustment is created without a cash discount. That is, the debit adjustment's **Cash Discount Date** is the same as the **Due Date**, and the **Cash Discount** is set to 0.00.

Changes to the Journal Vouchers Form

On the *Journal Vouchers* (GL304000) form, suppose that a user adds a new line to the table. If the user selects *ADR* in the **Module Tran. Type** column of the lookup table that opens in the **Tran Code** column of the form, the system does the following:

- If the Use Credit Terms in Debit Adjustments check box is selected on the Accounts Payable Preferences (AP101000) form, inserts the credit terms from the vendor's settings and makes the Terms, Due Date, Cash Discount Date, and Cash Discount columns available. The user can override the credit terms or clear the column.
- If the Use Credit Terms in Debit Adjustments check box is cleared on the *Accounts Payable Preferences* form, leaves the credit terms empty and makes the Terms, Due Date, Cash Discount Date, and Cash Discount columns unavailable.

Changes to the Process Bank Transactions Form

On the *Process Bank Transactions* (CA306000) form, a user can now select a *Receipt* bank transaction and link this line to a debit adjustment with a cash discount on the **Create Payment** tab. When a user processes the records on this form, the system will create an AP refund and apply it to the debit adjustment. If the application date is within the cash discount period of the debit adjustment, the cash discount will be applied.

Debit adjustments with cash discounts are shown on the **Match to Invoices** tab of the form. Users can match debit adjustments to *Disbursement* bank transactions. This is required if a vendor pays bills and debit adjustments together and the total amount of the bills exceeds the total amount of the debit adjustments.

Changes to the Aging Reports

Debit adjustments with credit terms specified are displayed in the following AP aging reports as described:

- *AP Aging* (AP631000) and *AP Aging MC* (AP631100): Based on the **Due Date** of the debit adjustment, the system shows the document amount either in the **Current** column or in one of the **Past Due** columns.
- AP Coming Due (AP631500) and AP Coming Due MC (AP631600): Based on the Due Date of the debit adjustment, the system shows the document amount either in the Past Due column or in one of the Coming Due columns.
- AP Aged Period-Sensitive (AP630500): Based on the **Due Date** of the debit adjustment, the system shows the document amount either in the **Current** column or in one of the **Past Due** columns.

Upgrade Notes

After an upgrade to Acumatica ERP 2023 R2, on the *Accounts Payable Preferences* (AP101000) form, the **Use Credit Terms in Debit Adjustments** check box will be cleared. Users will be able to select and clear this check box at any time after the upgrade. (Data entry forms will support the processing of both types of debit adjustments—with credit terms and without credit terms.)

If the user selects the **Use Credit Terms in Debit Adjustments** check box on the *Accounts Payable Preferences* form after the upgrade, new debit adjustments will be created with credit terms by default. However, users will be able to clear the **Credit Terms** box or for unreleased debit adjustments.

Additional Information

For general information about debit adjustments with credit terms and cash discounts, see *Debit and Credit Adjustments: Debit Adjustments with Cash Discounts*.

For details on how to process a debit adjustment with a cash discount, see *Debit and Credit Adjustments: To Process a Debit Adjustment with a Cash Discount.*

Finance: Consolidated Retainage Invoices in AR

In previous versions of Acumatica ERP, the system created a retainage invoice or credit memo for each original document for a particular customer and project. As a result, a large amount of retainage invoices were created at the end of each project, because there could be multiple invoices created for the project. Users had to create and record payments for multiple retainage invoices separately and match each retainage invoice to the original invoice.

In Acumatica ERP 2023 R2, the following changes to the creation and processing of retainage documents have been introduced:

- A consolidated retainage document can be created for multiple original documents that have the same customer and project. These documents can be fully or partially consolidated. If multiple lines of documents related to the same customer and project are selected for processing on the *Release AR Retainage* (AR510000) form, the system will automatically create a consolidated retainage document for them.
- A consolidated retainage document can be paid partially. The system will recalculate the **Paid Retainage** amount for each original invoice on the *Invoices and Memos* (AR301000) form.
- Retained taxes are supported in consolidated retainage documents.

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

Changes to the Release AR Retainage Form

On the *Release AR Retainage* (AR510000) form, the documents or document lines selected for processing are included in one consolidated retainage document if all of the following conditions are met:

- The Payment Application by Line feature is enabled on the Enable/Disable Features (CS100000) form.
- More than one document or document line is selected for processing.
- In the original documents related to the selected documents or document lines, the following UI elements contain the same value.

UI Element	Location	Comments
Customer	Summary area of the <i>Invoices and Memos</i> (AR301000) form	
Project	Summary area of the <i>Invoices and Memos</i> form	If the <i>Contract Management</i> feature is enabled, the box name is Project/Con-tract .
Location	Summary area of the <i>Invoices and Memos</i> form	
Currency	Summary area of the <i>Invoices and Memos</i> form	Because retainage is not supported in foreign currency documents, all orig- inal invoices have the same currency, which is the base currency of the origi- nating branch.
Curr. Rate Type	The Financial Settings section on the Financial tab of the <i>Customers</i> (AR303000) form	

UI Element	Location	Comments
Customer Tax Zone	The Tax Info section on the Financial tab of the <i>Invoices and Memos</i> form	
Tax Calculation Mode	The Tax Info section on the Financial tab of the <i>Invoices and Memos</i> form	This box is displayed if the <i>Net/Gross Entry Mode</i> feature is enabled.
Tax Exemption Number	The Tax Info section on the Financial tab of the <i>Invoices and Memos</i> form	
Entity Usage Type	The Tax Info section on the Financial tab of the <i>Invoices and Memos</i> form	
Branch	The Link to GL section on the Financial tab of the <i>Invoices and Memos</i> form	This is the originating branch of the document.
AR Account	The Link to GL section on the Financial tab of the <i>Invoices and Memos</i> form	
AR Subaccount	The Link to GL section on the Financial tab of the <i>Invoices and Memos</i> form	This box is displayed if the <i>Subac</i> - <i>counts</i> feature is enabled.

If the *Payment Application by Line* feature is enabled on the *Enable/Disable Features* form and only one document is selected on the *Release AR Retainage* form, a non-consolidated retainage document will be created. That is, for a line related to an original document with the **Pay by Line** check box cleared on the *Invoices and Memos* form, the retainage document will also have the **Pay by Line** check box cleared. Thus, in some cases, an original document can have both consolidated and non-consolidated retainage documents.

The type of the consolidated retainage document (*Invoice* or *Credit Memo*) is determined by the sign of the resulting amount in the consolidated document. If the amount is positive, the type of the consolidated document is *Invoice*; if the amount is negative, the type of the consolidated document is *Credit Memo*.

When a user clicks **Release Retainage** on the More menu of the *Invoices and Memos* form, the system opens the *Release AR Retainage* form with the **Date** and **Post Period** boxes filled in by default with the current business date and period.

Changes to the Invoices and Memos Form

On the **Details** tab of the *Invoices and Memos* (AR301000) form, for a consolidated retainage document, the following columns have been added:

- **Orig. Doc. Type** (see Item 1 in the screenshot below): The type of the related original document—*Invoice* or *Credit Memo*.
- Orig. Ref. Nbr. (Item 2): The reference number of the related original document.

Invoice AR01	2033 - ME	EP Cap	ital Ventures									C NOT	TES AC	TIVITIES	FILES CUSTOMIZATIO	N TOOLS -
6 2 8	0.	+ 🗊	O v K	< > >	RELEASE											
Type	Invoice		Customer		IEP Capital Ventures 🤌	Detail Total	8,224.69									~
Reference Nbr.	AR012033	P	* Location	MAIN - Primary Lo	cation ,0	Discount Total	0.00									
Status:	Balanced		* Currency.	USD ,P 1.00	 VIEW BASE 	VAT Texable T	0.00									
* Date	5/10/2023	. v	• Terms	30D - 30 Days	Q.	VAT Exempt T	0.00									
* Post Period	05-2023	Q.	* Due Date	6/9/2023 v	Retainage Document	Tax Total	0.00									
Customer Ord	PF00011		* Cash Discount	6/9/2023 ~	Pay by Line	Balance	8,224.69									
			Project/Contract	CSTRMEPJOB - N	EP Restaurant - MEP 2	Cash Discount	0.00									
	NANCIAL	ADDRE	SSES TAXES	COMMISSION	5 APPROVALS DIS	COUNTS APPLICATIO	943									
B B D *Branch	i Or	rig.	Orig. Ref.	Line Inventory	Transaction Descr.	Quantity, UOM	Unit	Ext	Discount	Discourt	Manual	Discount	Amount	*Account	Description	* Subaccount
	Q4	sc, Type	NDr.	NDC (I)			Price	Price	Percent	Amount	Discount	Code				
> 6 D PRODU	WHOLE In	wolce	AR008742	1	Retainage for Invoice AR0	0.00	0.00	1,234.38	0.000000	0.00			1,234.38	11100	Retainage Receivable	000-000
PRODU	WHOLE In	wolce	AR008742	2	Retainage for Invoice AR0	0.00	0.00	3.448.43	0.000000	0.00			3,448.43	11100	Retainage Receivable	000-000
			1000000000		Datalance for Involce AD0	18742 0.00	0.00	2 307 50	0 000000	0.00			2 307 60	11100	and the second s	
	WHOLE In	woice	AM2205/42	3	Relatinge for inforce And								2.301.30	11100	Retainage Receivable	000-000

Figure: The Details tab for a consolidated retainage invoice

If the original document has the **Pay by Line** check box cleared on the *Invoices and Memos* form, the retainage amount from this document is shown in the consolidated retainage document as one line on the **Details** tab. If the original document has the **Pay by Line** check box selected, the retainage amount from this document is shown as multiple lines on the **Details** tab, depending on the number of lines selected for processing on the *Release AR Retainage* (AR510000) form (as is the case shown in the screenshot above).

On the **Retainage** tab of the *Invoices and Memos* form, for an original document, the following UI changes have been introduced:

- One line is displayed for all lines included in the retainage document.
- The **Amount** column shows the total amount of the retainage document, including the applicable taxes. The **Amount** column has been made hidden by default.
- The **Released Retainage** column (Item 1 in the screenshot below) has been added. For unreleased retainage documents, the column is empty. For released retainage documents, the column shows the appropriate portion of the amount from the retainage document that is related to the original document.
- The **Paid Retainage** column has been added (Item 2). This column shows how much of the released retainage related to the current original document has been paid. For unreleased retainage documents, this column is empty.
- The **Balance** column has been removed.
- The amounts in the **Released Retainage** and **Paid Retainage** columns are shown with the corresponding sign to reflect that the released retainage was reduced or increased.

Invoices and Memo	s 8742 - MEP C	apital Ventures	1				0	NOTES	ACTIVITIES	FILES	CUSTOMIZATION	TOOLS .
D R O	+ =	O v K K	> >	WY								
Type Reference Nbr.: Status: Date: Post Period Customer Ord. Description	Invoice AR008742 Open 11/15/2020 11-2020 PF00011 Invoice for MEP	Customer Location: Currency: Terms: • Due Date: • Cash Discount. • Project/Contract Restaurant - MEP Project	MEPVENTURE - 1 MAIN - Primary Lo USD 1.00 30D - 30 Days 12/15/2020 ~ 12/15/2020 ~ CSTRMEPJOB - 1 t Example	MEP Capital Ventures cation VIEW BASE Apply Retainage Pay by Line MEP Restaurant - MEP	 Detail Total Discount Total VAT Taxable T VAT Exempt T Tax Total: Balance Amount: Cash Discoun 	62,912 69 0 00 0 00 0 00 0 00 62,912 69 t 0 00						~
DETAILS FI	NANCIAL AD	DRESSES TAXES	COMMISSION	S APPROVALS	DISCOUNTS	RETAINAGE AS	PPLICATIONS					
Default Retainag	e Percent:	10.000000	Unreleased Retain	ige 0.00	Tax on Retain	age	0.00					
Total Amount Original Retainag	e.	69,903.00 6,990.31	Released Retainag Unpaid Retainage Paid/Adjusted Reta	e 6,990.31 6,990.31 inage 0.00	Discount on R	etainage:	0.00					
0 - ×				0	0							
🗄 🖗 🗋 Туре	• Reference Nbr.	*Date *Post Period	Status	Released Relainage	Paid Retainage	Payment Method	Customer Order Nbr	Desc	ription			
> @ D Invoice	AR012033	5/10/2023 05-202	3 Open	6,990.31	0.00	CHECK	PF00011	Reta	inage for projec	E CSTRME	PJOB - MEP Restaur	ant - ME

Figure: The Retainage tab for the original document

Support of Retained Taxes

If the **Retain Taxes** check box is selected in the **Retainage Settings** section on the *Accounts Receivable Preferences* (AR101000) form, the system calculates retained taxes for consolidated retainage documents. If the same **Tax ID**, **Taxable Amount**, and **Tax Amount** are applied to multiple lines of a retainage document related to different original documents, on the **Taxes** tab of the *Invoices and Memos* (AR301000) form, the tax amount will be summed for each tax ID in the **Retained Tax** column.

Changes in Reports and Inquiries

The following reports and inquiries that show retainage documents have been reworked to support consolidated retainage documents:

- AR Retained Balance (AR635000): A consolidated retainage document appears under each related original document if the Include Retainage Details check box is selected on the Report Parameters tab. On the printed report form, the Retainage Amount displayed for a consolidated retainage document is shown as a part of the total document amount that is related to a specific original document. The retainage amount includes taxes, if they are applicable.
- AR Open Documents by Customer (AR634000) and AR Open Documents by Project (AR634100): The formulas of calculating the **Paid/Adjusted** and **Net Balance** amounts have been updated. These columns now show only the part of paid retainage or the part of the balance of a retainage document related to a specific original document, not all paid retainage and full balance of a retainage document, as was the case in previous versions. The **Paid/Adjusted** column reflects the applications of payments and the direct applications of credit memos, if the document is not a reversing document.
- AR Retainage Register (AR634500): A consolidated retainage document appears under each related original document. For consolidated retainage documents, the **Total Amount** column reflects only the part of the total amount that is related to a specific original document. The **Paid Retainage** amount is calculated according to the following formula: Paid Retainage = Total Amount Total Balance.

Changes That Will Affect Existing Users

The following changes will affect existing users of the *Retainage Support* feature even if they will not create consolidated retainage documents:

• On the **Details** tab of the *Invoices and Memos* (AR301000) form, the **Orig. Ref. Nbr.** column will be displayed for retainage documents. This column will show the reference number of the original document for which

the **Apply Retainage** check box is selected. For non-consolidated retainage documents, this column will show the same value as the value in the **Original Document** box on the **Financial** tab.

- On the *Release AR Retainage* (AR510000) form, the **Date** and **Post Period** boxes will be filled in by default with the current business date and period if a user opens this form by clicking **Release Retainage** on the More menu of the *Invoices and Memos* form.
- On the **Retainage** tab of the *Invoices and Memos* form, the **Balance** column of the table has been removed and the **Amount** column has become hidden. The following new columns have been added: **Paid Retainage** (to replace the removed **Balance** column), and **Released Retainage** (to replace the hidden **Amount** column).

The formula of calculating the **Paid/Adjusted Retainage** has been changed. Now direct applications of credit memos to invoices are included in the amount shown in the **Paid Retainage** box on this tab.

- On the *Invoices and Memos* form, the credit terms for a retainage document, which are shown in the **Terms** box, are copied from the customer's settings by default. (In previous versions, they were copied from the original document.)
- On the *Invoices and Memos* form, a document that reverses a retainage document has a link to the document being reversed in the **Original Document** box on the **Financial** tab. (In previous versions, a reversing document always had a link to the original document.)

Upgrade Notes

During an upgrade of Acumatica ERP to 2023 R2, an upgrade script will update the **Unpaid Retainage** and **Paid Retainage** amounts on the **Retainage** tab of the *Invoices and Memos* (AR301000) form in documents that were created before the upgrade. These amounts will be recalculated according to the following formulas:

- Unpaid Retainage = Unreleased Retainage + Balances of retainage documents
- Paid Retainage = Original Retainage Unpaid Retainage

Additional Information

For more information about consolidated documents, see Consolidated Retainage Documents.

For information about how to create a consolidated retainage document, see *To Create Multiple Retainage Documents* (*Release Retainage for Multiple Documents*).

Finance: Changes to Summary Area Totals

In previous versions of Acumatica ERP, the Summary area of multiple data entry forms included information that was irrelevant to the majority of Acumatica ERP users, such as the **VAT Exempt Total** and **VAT Taxable Total** boxes. In some cases, this area of the form did not include some key information that was needed by many users. For example, the **Discount Total** box displayed the total of document-level and group-level discounts but did not include line-level discounts. Users had to manually calculate the total amount of all discounts applied to a document.

In Acumatica ERP 2023 R2, multiple changes related to totals have been made to the Summary area of the following data entry forms:

- Invoices and Memos (AR301000)
- Bills and Adjustments (AP301000)
- Cash Sales (AR304000)
- Cash Purchases (AP304000)

The following sections describe the UI changes made on the listed forms.

Changes to the Invoices and Memos Form

On the *Invoices and Memos* (AR301000) form, to enhance the available information in the Summary area, the following changes have been made:

- The VAT Taxable Total and VAT Exempt Total boxes have been removed.
- The Balance box has been moved below the Amount box.
- The **Detail Total** box now displays the sum of the line amounts before any deductions—that is, the sum of the amounts entered in the **Ext. Price** columns on the **Details** tab.
- The **Discount Total** box has been removed from the form.
- The **Line Discounts** box (see Item 1 in the screenshot below) has been added. The box appears in the Summary area regardless of whether the *Customer Discounts* feature is enabled on the *Enable/Disable Features* (CS100000) form.
- The **Document Discounts** box (Item 2) has been added. This box shows the sum of the discounts specified for the document on the **Discounts** tab and is unavailable for editing if the *Customer Discounts* feature is enabled on the *Enable/Disable Features* form. This box is available and a user can manually specify the discount amount if the *Customer Discounts* feature is disabled on the *Enable/Disable Features* form.

For a document, if the **Pay by Line** check box is selected, the **Apply Retainage** check box is selected, or both check boxes are selected, this box is unavailable, and a warning message is displayed.

• The **Retained Amount** box (Item 3) has been added. The read-only box displays the sum of retained amounts of all document lines, which are specified on the **Details** tab. The box appears on the form if the *Retainage Support* feature is enabled on the *Enable/Disable Features* form.

If the **Retain Taxes** check box is selected on the **General** tab of the *Accounts Receivable Preferences* (AR101000) form, the **Retained Amount** box shows the sum of the retained amounts of all document lines, without exclusive retained taxes.

Invoice AR01	2033 - Alta	Ace								NOTES	ACTIVITIES	FILES C	USTOMIZATION	TOOLS
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Туре	Invoice	¥	Customer	AACUSTOMER - Alta Ace		/ Detail Total	5.560.00							
Reference Nbr	AR012033	p.	* Location	MAIN - Primary Location	Q.	Line Discounts	520.00	0						
Status:	Balanced		* Currency:	USD .0 1.00 *	VIEW BASE	Document Dis	0.00	0						
* Date:	8/22/2023		• Terms:	30D - 30 Days	Q	Retained Amo,.	252 00	8						
* Post Period	08-2023	0	• Due Date:	9/21/2023 🖂 🗹 Appl	Retainage	Tax Total:	0 00							
Customer Ord			+ Cash Discount	9/21/2023 🗀 🗌 Pay	y Line	Balance	4.788.00							
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DETAILS F	INANCIAL	ADDRE	ESSES TAXES	COMMISSIONS A	PPROVALS	DISCOUNTS RE	TAINAGE AP	PLICATIO	NS					
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Figure: UI changes in the Summary area of the Invoices and Memos form

On the **Financial** tab of the *Invoices and Memos* form (shown in the screenshot below), the following changes have been made:

- The sections have been rearranged.
- The VAT Totals section, which includes the VAT Taxable and VAT Exempt boxes, has been added. These boxes have been moved from the Summary area of the form. The VAT Totals section is displayed on the form if the VAT Reporting feature is enabled on the Enable/Disable Features form.

Invoices and Memos Invoice AR012033 - Alta Ace				D NOTES	ACTIVITIES	FILES	CUSTOMIZATION	TOOLS -
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Type: Invoice - Customer: AA	ACUSTOMER - Alta Ace	Ø Detail Total:	5,560.00					^
Reference Nbr.: AR012033 P * Location: MA	IAIN - Primary Location ,0	Line Discounts:	520.00					
Status: Balanced * Currency: US	SD P 1.00 - VIEW BASE	Document Dis	0.00					
* Date: 8/22/2023 🗂 * Terms: 30	0D - 30 Days 🔎	Retained Amo	252.00					
* Post Period: 08-2023 ,0 * Due Date: 9/2	21/2023 📋 🗹 Apply Retainage	Tax Total:	0.00					
Customer Ord * Cash Discount 9/2	/21/2023 📋 🗌 Pay by Line	Balance:	4,788.00					
* Project/Contract: X -	- Non-Project Code. $ ho$ //	Cash Discount:	0.00					
Description:								
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LINK TO GL	DEFAULT PAYMENT INFO _			DUNNING INFO				
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* Branch: PRODWHOLE - Products	Wh P Card/Account Nbr.:			Dunning Level:				0
* AR Account: 11000 - Accounts Receivat	able P Cash Account:	10200 - Compa	ny Checking A 🔎			Revol	ked	
* AR Subaccount: 000-000 - Default		Apply Overdu	e Charges					
* Retainage Receivable Account: 11100 - Retainage Receiva	rable P TAX INFO							
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Figure: UI changes on the Financial tab of the Invoices and Memos form

Changes to the Bills and Adjustments Form

On the Bills and Adjustments (AP301000) form, the following changes have been made in the Summary area:

- The VAT Taxable Total and VAT Exempt Total boxes have been removed.
- The **Balance** box has been moved below the **Amount** box.

- The **Detail Total** box now displays the sum of the line amounts before any deductions—that is, the sum of the amounts entered in the **Ext. Cost** columns on the **Details** tab.
- The **Discount Total** box has been removed from the form.
- The Line Discounts box (see Item 1 in the screenshot below) has been added. The box appears in the Summary area regardless of whether the Vendor Discounts feature is enabled on the Enable/Disable Features (CS100000) form.
- The **Document Discounts** box has been added. This box shows the sum of the discounts that are specified for the document on the **Discounts** tab and is unavailable for editing if the *Vendor Discounts* feature is enabled on the *Enable/Disable Features* form. This box is available and a user can manually specify the discount amount if the *Vendor Discounts* feature is disabled on the *Enable/Disable Features* form.

For a document, if the **Pay by Line** check box is selected, **Apply Retainage** check box is selected, or both check boxes are selected, this box is unavailable, and a warning message is displayed.

• The **Retained Amount** box (Item 3) has been added. The read-only box displays the sum of the retained amounts of all document lines, which are specified on the **Details** tab. The box appears on the form if the *Retainage Support* feature is enabled on the *Enable/Disable Features* form.

If the **Retain Taxes** check box is selected on the **General** tab of the *Accounts Payable Preferences* (AP101000) form, the **Retained Amount** box shows the sum of the retained amounts of all document lines, without exclusive retained taxes.

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* Date:	8/22/2023	Ő	* Terms:		30D - 30 I	Days		Q	Retained	Amount:	596.00	3					
* Post Period:	08-2023	Q	* Due Da	ate:	9/21/2023		Apply Retain	nage	Tax Total:		298.00						
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Figure: UI changes in the Summary area of the Bills and Adjustments form

On the **Financial** tab of the *Bills and Adjustments* form (shown in the screenshot below), the following changes have been made:

- The sections have been rearranged.
- The VAT Totals section, which includes the VAT Taxable and VAT Exempt boxes, has been added. These boxes have been moved from the Summary area of the form. The VAT Totals section is displayed on the form if the VAT Reporting feature is enabled on the Enable/Disable Features form.

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Figure: UI changes on the Financial tab of the Bills and Adjustments form

Changes to the Cash Sales Form

On the Cash Sales (AR304000) form, the following changes have been made in the Summary area:

- The VAT Taxable Total and VAT Exempt Total boxes have been removed.
- The **Balance** box and the **Payment Amount** box have been rearranged on the form.
- The **Detail Total** box now displays the sum of the line amounts before any deductions—that is, the sum of the amounts entered in the **Ext. Price** columns on the **Details** tab.
- The Line Discounts box has been added. The box displays the sum of the line discounts specified for the document on the Details tab.

Cash Sales Cash Sale AR ← 📱 🛱	R012034 - Alta の +	aAce ඕ ₽ ~ K	< > > R	ELEASE ···				🕒 NOTES	ACTIVITIES	FILES	CUSTOMIZATIO	DN TOOLS -
Type:	Cash Sale 🗸	Customer:	AACUSTOMER - Alta Ace		Ø Detail T	otal: 1	10,000.00					^
Reference Nbr.:	AR012034 🔎	* Location:	MAIN - Primary Location	Q	Line Dis	counts:	600.00					
Status:	Balanced	Payment Meth	CHECK - Check	Q	Tax Tota	al:	0.00					
* Date:	8/22/2023 📋	Card/Account			Paymer	nt Amo	9,400.00					
* Post Period:	08-2023 <i>P</i>	Cash Account:	10200 - Company Checking	g Account 🔎	Balance		9,400.00					
* Payment Ref.:	PMT04220	Currency:	USD 1.00 -	VIEW BASE	Cash D	scount	0.00					
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Figure: UI changes in the Summary area of the Cash Sales form

On the Financial tab of the Cash Sales form, the following changes have been made:

- The sections have been rearranged.
- The VAT Totals section, which contains the VAT Taxable and VAT Exempt boxes, has been added. These boxes have been moved from the Summary area of the form. The VAT Totals section is displayed on the form if the VAT Reporting feature is enabled on the Enable/Disable Features (CS100000) form.

Cash Sales Cash Sale AF	R012034	4 - Alt	a Ac	e						🗅 N	DTES	ACTIV	ITIES	FILES	CUS	STOMIZ	ZATION	TOOLS -
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Reference Nbr.:	AR01203	34 ,O		* Loca	tion:		MAIN	- Prim	ary Lo	cation		Q		Line Disc	counts:		600.0	00
Status:	Balanced	ł		Payn	nent N	leth	CHEC	K - Cł	neck			Q		Tax Total			0.0	00
* Date:	8/22/202	3 🗇		Card	l/Acco	unt								Payment	Amo		9,400.0	00
* Post Period:	08-2023	Q		Cash	n Acco	unt:	10200	- Con	npany	Checki	ng Accou	nt 🔎		Balance:			9,400.0	00
* Payment Ref.:	PMT042	20		Curre	ency:		USD	1	.00	-	VIEW	BASE		Cash Dis	count		0.0	00
				* Proje	ect:		X - No	n-Proj	ject Co	de.		Q	Ø	Finance	Charg		0.0	00
Description:														Deducted	d Cha		0.0	00
DETAILS F	INANCIAL	AE	DRE	SSES	Т	AXES	AP	PROV	/ALS	СС	MMISSIC	ONS	CH	ARGES				
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* Branch:		DDOD			raduat	o 14/b	0	* Tel	ms.				- 30 Di	ays		2		
* AR Account:		11000	Acc	CE - FI	Pocolu	s wir .	0	Cla	ar Dat				aleu					
* AR Sub :		000-0	- ACC	ounts r	Vecen	able	~	OIC	sar Dai			Rat	ch Do	nocit				
Original Docum	ient:	000-0	JU - D	eraurt										4				
ASSIGNED TO								Ba	tch De	nosit D	ate:		Joanet	4				
Workgroup ID:							0	Ba	tch Do	nosit N	hr:							
Owner ID:							0	ТАХ	INFO	positin	.							
PRINT AND EMA		vs						Cu	stome	r Tax 7	one:					0		
Printed		D	on't P	rint				Tax	x Exem	notion I	Jumber:					~		
Emailed		∠ D	on't E	mail				En	tity Us	age Tv	be:	Defa	ult			~		
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Figure: UI changes on the Financial tab of the Cash Sales form

Changes to the Cash Purchases Form

On the *Cash Purchases* (AP304000) form, the following changes have been made in the Summary area (shown in the screenshot below):

- The VAT Taxable Total and VAT Exempt Total boxes have been removed.
- The **Balance** box has been moved below the **Payment Amount** box.
- The **Detail Total** box now displays the sum of the line amounts before any deductions—that is, the sum of the amounts entered in the **Ext. Cost** column on the **Details** tab.

Cash Purchases Cash Purchas	se 00232	9 - A	A Services	8								D NOTES	ACTIVITIES	FILES	CUSTOMIZATI	ON TOOLS -
← 🕄 🗄	Ś	+	ÔĈ	× K	<	> >	REM	OVE HOLI	•	••						
Type:	Cash Purc	~	Vendor		AASERVI	CES - AA S	Services		0	Detail Total	: 1	00.00				^
Reference Nbr.:	002329	,o	* Locatio	on:	MAIN - Pr	imary Loca	ition	Q		Tax Total:		0.00				
Status:	On Hold		* Payme	nt Meth	CHECK			Q		With. Tax:		0.00				
* Date:	8/22/2023	Ô	* Cash A	ccount:	10200 - C	ompany Cl	hecking A	ccount 🔎		Payment A	mo 1	000.00				
* Post Period:	08-2023	Q	Curren	cy:	USD	1.00	- V	IEW BASE		Balance:	1	000.00				
			Payme	nt Ref.:						Cash Disco	ount	0.00				
Description:										Finance Ch	narg	0.00				
DETAILS FI	INANCIAL	TAX	XES APP	ROVALS	REMIT	TANCE	CHAR	GES								
0 + 0	×	VIEW	DEFERRALS	↔	x											
🗄 🕕 🗅 *Branch	1	Invent	ory ID	Transacti	on Descr.		Quantity	UOM		Unit Cost	Ext. Cos	t *Account	Description	* 9	Subaccount	Project
> 🛛 🗅 PRODV	WHOLE						0.00			0.00	1,000.00	60000	Purchase exper	nse O	00-000	ĸ

Figure: UI changes in the Summary area of the Cash Purchases form

On the **Financial** tab of the *Cash Purchases* form, the **VAT Totals** section has been added, as shown in the following screenshot.

The section contains the **VAT Taxable** and **VAT Exempt** boxes, which were previously located in the Summary area. The **VAT Totals** section is displayed on the form if the *VAT Reporting* feature is enabled on the *Enable/Disable Features* (CS100000) form.

Cash Purchases	e 0023	29 - A	A Se	ervice	s							٦ı	NOTES	,	ACTIVITII	ES	FILES	S	CUSTOMIZ	ZATION	TOOLS	•
← 	5	+	Û	Û	~	к	<		>	Я	R	EMOVE	e Holi	D								
Туре:	Cash Pur	c~		Vende	or:		AAS	ERV	ICES	- AA S	ervice	s		Ø	Deta	il Tota	al:		1,000.00	0		^
Reference Nbr.:	002329	,o	*	Locat	ion:		MAI	N - P	rimar	y Loca	tion		Q		Tax	Total:			0.00	0		
Status:	On Hold		*	Paym	ent M	eth	CHE	ск					Q		With	Tax			0.00	0		
* Date:	8/22/2023	3 🗇	*	Cash	Accou	int:	1020	00 - 0	Comp	any Cł	neckin	д Ассог	unt 🔎		Payr	nent	Amo		1,000.00	0		
* Post Period:	08-2023	Q		Curre	ncy:		USD)	1.0	0	*	VIEW	BASE		Bala	nce:			1,000.00	0		
				Paym	ient Re	ef.:									Casł	n Dise	ount		0.00	0		
Description:															Fina	nce C	harg		0.00	0		
DETAILS FIN	ANCIAL	TAX	KES	AP	PROV	ALS	R	REMI	TTAN	CE	CH/	ARGES										
GL LINK									_	TAX	AND -	TERMS										
Batch Nbr.:										Ve	ndor T	ax Zone	e:							Q		
* Branch:		PROD	NHOL	.E - Pr	oducts	Who	lesale	, p		* Tei	rms:			3	0D - 30	Days				Q		
* AP Account:		20000	- Acco	unts P	ayable	Э		Q		VAT	τοτα	LS										
* AP Subaccount:		000-00	0 - De	fault						VA	T Taxa	able:							0	0.00		
Reclassification A	Account:	81020	- Recl	assifica	ation a	iccour	nt	Q		VA	T Exe	mpt:							0	0.00		
Reclassification S	Subac	000-00	0 - De	fault] '													
* Date:		8/22/20)23	Ö																		
* Post Period:		08-202	3	Q																		
	(Clear	ed																			
Clear Date:																						
Orig. Ref. Nbr.:																						

Figure: UI changes on the Financial tab of the Cash Purchases form

Upgrade Notes

During an upgrade to Acumatica ERP 2023 R2, for documents with discounts, the system will recalculate the discounts and update the total amounts shown in the **Line Discounts** box in the Summary area of the *Invoices and Memos* (AR301000) and *Bills and Adjustments* (AP301000) forms. The **Document Discounts** box in the Summary area of the mentioned forms will show the amounts that were shown in the removed **Discount Total** box.

Finance: Other Improvements

In Acumatica ERP 2023 R2, multiple improvements to financial management processes and the UI have been introduced, as described below.

Enhancements to the Release of Write-Offs

In previous versions of Acumatica ERP, on the *Write Off Balances and Credits* (AR505000) form, an error could occur during the creation of documents with of the *Credit WO* type. In this case, the system released the generated credit write-off documents but failed to release their applications. The documents maintained the *Open* status without a batch being posted to the general ledger. If these documents existed in the system, the process run on the *Prepare Statements* (AR503000) form could fail with an error.

Starting in Acumatica ERP 2023 R2, the problem has been resolved. Now the system does not create orphan writeoff documents when the release of write-offs fails.

Improved Sorting Order on the Prepare Payments Form

In previous versions of Acumatica ERP, when a user ran a process on the *Prepare Payments* (AP503000) form, the system created checks that were sorted by reference numbers but not by vendors. As a result, checks issued to the same vendor did not have consecutive numbers.

Starting in Acumatica ERP 2023 R2, when a user opens the *Prepare Payments* form to prepare checks, the user can sort the records in alphabetical order by the vendor ID and click **Process** on the form toolbar. The checks for the same vendor will be generated with consecutive numbers, as shown in the following screenshot.

Cł	eck	s and Pay	ments										CUSTOMI	ZATION · TOOLS ·
Ċ		o +		1.										
Ту	pe: Al	li • Statu	s All + Payn	nent Date: All +								7	a	Q
R (D	Туре	Reference Nor.	Status	Paymeni Dote	Fin. Period	Vendor	Vendor Name	Description	Payment Ref.	Payment Amount	Currency	Cash Account	Payment Method
5 6	D	Payment	000044	Printed	5/15/2023	05-2023	ARCINS	Arc Insurance	Construction insurance (April)	0077	15,852.32	USD	10200WH	CHECK
1	D	Payment	000043	Printed	5/15/2023	05-2023	ARCINS	Arc Insurance	Builders risk insurance and workers compe	0076	120,000 00	USD	10200WH	CHECK
	D	Payment	000042	Closed	5/15/2023	05-2023	ARCINS	Arc Insurance	Insurance policies	0075	3,000.00	USD	10200WH	CHECK
1		Payment	000040	Closed	5/15/2023	05-2023	COMPULINK	Compulink and Co	Computers	0078	6,000.00	USD	10200WH	CHECK
1	D	Payment	000039	Closed	5/15/2023	05-2023	JARCO	Jar Co.	Purchased small glass jars	0082	72.00	USD	10200WH	CHECK
	D	Payment	000038	Closed	5/15/2023	05-2023	JARCO	Jar Co.	Purchased glass jars	0081	135.00	USD	10200WH	CHECK
1	0	Payment	000037	Closed	5/15/2023	05-2023	JARCO	Jar Co.	Purchased packaging	0080	125.00	USD	10200WH	CHECK
1	D	Payment	000036	Closed	5/15/2023	05-2023	JARCO	Jar Co.	Supplies	0079	3.573.00	USD	10200WH	CHECK
1	D	Payment	000035	Closed	5/15/2023	05-2023	OFFICEUP	OfficeUp Original	Office equipment	0084	1,449.00	USD	10200WH	CHECK
1.4	D	Payment	000034	Closed	5/15/2023	05-2023	OFFICEUP	OfficeUp Original	Office equipment	0083	3,142.00	USD	10200WH	CHECK
1	D	Payment	000033	Pending Print	5/15/2023	05-2023	ARCINS	Arc Insurance	Payment for ARCINS		47.556.96	USD	10200WH	CHECK
1	D	Payment	000031	Pending Print	5/15/2023	05-2023	COMPULINK	Compulink and Co	Computer equipment		9,742.00	USD	10200WH	CHECK
1	D	Payment	000030	Pending Print	5/15/2023	05-2023	BLUELINE	Blueline Advertisement	Payment for BLUELINE		12,276.73	USD	10200WH	CHECK
1	0	Payment	000029	Closed	5/11/2023	05-2023	BLUELINE	Blueline Advertisement		0073	3,928.00	USD	10200WH	CHECK

Figure: The list of payments generated from the Prepare Payments form

Ability to Upload a Trial Balance for Companies Not Requiring Balancing

In previous versions of Acumatica ERP, it was not possible to upload a trial balance for a company that had the *With Branches Not Requiring Balancing* type because the system required the trial balance to be imported by branch and the trial balance had to be balanced.

In Acumatica ERP 2023 R2, the following UI changes have been made on the *Trial Balance* (GL303010) form to solve this problem:

• In the Summary area, the **Branch** box has been replaced with the **Company/Branch** box (see Item 1 in the screenshot below). The selection of the branch or company is restricted depending on the company type. A user can select a company if its type is *Without Branches* or *With Branches Not Requiring Balancing*. A user can select a branch if the company type is *With Branches Requiring Balancing*.

• On the **Transaction Details** tab, the **Imported Branch** (Item 2) and **Mapped Branch** (Item 3) columns have been added to the table. The **Mapped Branch** column is filled in during the validation of the setting in the **Imported Branch** column.

Trial Balance New Record				NOTES	ACTIVITIES	FILES CUS	TOMIZATIO	ON TOOLS -
< ¶ ≞ ∽ +	Ш́́р × К «	K > >I RE	MOVE HOLD					
Import Number: <new> P</new>	* Company/Branch:	SERVICES - Revision	Two Services	Debit To	tal:	0.00		^
Status: On Hold	* Ledger:	ACTUAL - Actual Ledge	er ,0	Credit To	otal:	0.00		
* Import Date: 5/12/2023 ~	Batch Number:							
* Period: 05-2023 ,P	Description:							
TRANSACTION DETAILS EXC	EPTIONS							
Č + ⊘ × Action:	Validate ~ PROC	ESS PROCESS ALL	↔ X	t		All Records		• 7
🖹 🗌 Status Imported Branch	Mapped Branch Impor	rted Mapped unt Account	Imported Subaccount	Mapped Subaccount	YTD Balance	Currency YTD Balance	Туре	Description
> New SERVEAST	1010	00	000-000		1,200.00	1,200.00		
2	3							

Figure: UI changes on the Trial Balance form

The settings in the new UI elements are involved in the import of a trial balance, the validation of imported values, the merge of duplicates, the creation of the **Exceptions** table, and the creation of transactions.

Reimplementation of the Australian Depreciation Method

In Acumatica ERP 2023 R2, the *Australian Diminishing Value* depreciation method has been reimplemented by using the new depreciation engine.

The reimplemented *Australian Diminishing Value* method is based on the *Declining Balance* algorithm. The method uses the **Percent per Year** setting for calculating depreciation amounts and take into account leap years. The depreciation calculation is based on the number of days the asset is held in a financial period; the first depreciation period and the disposal period are defined as the exact number of days the asset is held.

Reimplementation of the New Zealand Depreciation Method

In Acumatica ERP 2023 R2, the *New Zealand Diminishing Value* depreciation method has been reimplemented to use the new depreciation engine.

This method of calculating the depreciation uses the **Percent per Year** setting for calculating depreciation amounts and uses the exact number of days in each period within the financial year. The method is based on the *Full Period* averaging convention, and does not take leap years into account. In addition, when an asset is disposed of, it cannot be depreciated in the year of its disposal.

UI Changes for Checks with Multiple Stubs

The *Check Register* (AP404500) form has been modified to show all check numbers used by the system when a check with multiple stubs has been printed, as shown in the following screenshot.

С	hec	k Registe	r											CUSTOMIZAT	ION · TOOLS ·
C	5		X												
	Cas	n Account:			Q	Payment I	Method:			P Check	Number:				
0)ocun	ent Date: '5/1	1/2022' - '5/ 🔹									Y	8		م
8	0 0	Cash Account	Payment Method	Check Number	Reference	Status	▼ Document Date	Fin. Period	Vendor	Vendor Name	Payment Curr Amount	rency	Balance	Created On	Created By
>	0 (<u>10210WH</u>	CHECK	AP0002	000022	Closed	1/30/2023	01-2023	BLUELINE	BLUELINE A	520.00 US	D	0.00	12/31/1899	admin admin
	0 (<u>10210WH</u>	CHECK	AP0001	<u>000021</u>	Closed	1/9/2023	01-2023	PRINTICO	WINGMAN PR	230.00 <u>US</u>	D	0.00	12/31/1899	admin admin
	0 (<u>10200WH</u>	CHECK	0074	<u>000029</u>		5/11/2023		BLUELINE	BLUELINE A				5/11/2023	Kimberly Gibbs
	0 (<u>10200WH</u>	CHECK	0073	000029	Closed	5/11/2023	05-2023	BLUELINE	BLUELINE A	3,928.00 <u>US</u>	D	0.00	5/11/2023	Kimberly Gibbs
	0 (<u>10200WH</u>	CHECK	0071	00000050	Closed	1/1/2023	01-2023	EASTOR	EAST ORANG	941.00 <u>US</u>	D	0.00	12/31/1899	Kimberly Gibbs
	0 (<u>10200WH</u>	CHECK	0070	<u>000000049</u>	Closed	1/1/2023	01-2023	EVERTIX	EVERTIX EL	2,735.88 <u>US</u>	D	0.00	12/31/1899	Kimberly Gibbs
	0 (<u>10200WH</u>	CHECK	0069	00000048	Closed	1/1/2023	01-2023	ARCINS	ARC INSURA	1,255.00 <u>US</u>	D	0.00	12/31/1899	Kimberly Gibbs
	0 (<u>10200WH</u>	CHECK	0068	00000047	Closed	1/1/2023	01-2023	NYBANK	THE BANK O	1,100.00 <u>US</u>	D	0.00	12/31/1899	Kimberly Gibbs
	0 (<u>10200WH</u>	CHECK	0067	00000046	Closed	12/1/2022	12-2022	EASTOR	EAST ORANG	266.00 <u>US</u>	D	0.00	12/31/1899	Kimberly Gibbs
	0 (<u>10200WH</u>	CHECK	0066	<u>000000045</u>	Closed	12/1/2022	12-2022	EVERTIX	EVERTIX EL	2,735.88 <u>US</u>	D	0.00	12/31/1899	Kimberly Gibbs
	0 (<u>10200WH</u>	CHECK	0065	00000044	Closed	12/1/2022	12-2022	ARCINS	ARC INSURA	1,255.00 <u>US</u>	D	0.00	12/31/1899	Kimberly Gibbs
	0 (<u>10200WH</u>	CHECK	0064	00000043	Closed	12/1/2022	12-2022	NYBANK	THE BANK O	1,100.00 <u>US</u>	D	0.00	12/31/1899	Kimberly Gibbs
	0 (<u>10200WH</u>	CHECK	0063	00000042	Closed	11/1/2022	11-2022	EASTOR	EAST ORANG	458.00 <u>US</u>	D	0.00	12/31/1899	Kimberly Gibbs
	0 0	<u>10200WH</u>	CHECK	0062	00000041	Closed	11/1/2022	11-2022	EVERTIX	EVERTIX EL	2,737.15 <u>US</u>	D	0.00	12/31/1899	Kimberly Gibbs
	0 (<u>10200WH</u>	CHECK	0061	00000040	Closed	11/1/2022	11-2022	ARCINS	ARC INSURA	1,200.00 <u>US</u>	D	0.00	12/31/1899	Kimberly Gibbs
	0 (<u>10200WH</u>	CHECK	0060	00000039	Closed	11/1/2022	11-2022	NYBANK	THE BANK O	1,100.00 <u>US</u>	D	0.00	12/31/1899	Kimberly Gibbs

Figure: The modified Check Register form

This enhancement helps users to easily understand why some check numbers have been used and in which payments they are used.

On the *Checks and Payments* (AP302000) form, the **Check Number** column has been added to the **Documents to Apply** and **Application History** tabs to show all check numbers used by the system if a check was printed with multiple stubs. The new column is filled in for payments with payment methods for which the **Print Checks** option button is selected on the **Settings for Use in AP** tab of the *Payment Methods* (CA204000) form.

The **Check Number** column appears on the **Documents to Apply** tab for payments with the *Printed* status, as shown in the following screenshot.

Checks and Payments Payment 000029 - B	Blueline Ac	dvertisement											NOTES	ACTIVITIES	FILES	CUSTOMIZATI	ON TOOLS -
6 0	+	O × K	< >	>I RE	LEASE												
Type Paymen	1 9	Vendor	BLUELINE - E	Blueline Advert	lisement	1	Payment Amount		3,928.00								-
Reference Nbr. 000029	0	Location	MAIN - Primar	ry Location			Unapplied Balance		0.00								
Status Printed		Joint Payee N					Application Amount:		3,928.00								
Application Date: 5/11/202	23	Payment Meth	CHECK				Finance Charges:		0.00								
Application Pe., 05-2023	3	Cash Account:	10200WH - W	Tholesale Che	cking												
+ Payment Ref 0073		Description															
DOCUMENTS TO APPLY	APPLIC	ATION HISTORY		REMITT	INCE C	HARGES	ÇOMPLIANCE										
部心 D Branch	Document Type	*Reference Nbc	Amount Paid	Cash Discount Taken	Wite. Tax	Date	Due Date	Cash Discount Daia	Cross Rate	Baiance	Cash Discount Balance	With, Tax Balance	Description	Post Period	Currency	Vendor Ref.	Check Number
> 0 D HEADOFFICE	Bill	000000068	228.00	0.00	0.00	2/10/200	20 3/11/2020	3/11/2020	1.00000000	0.00	0.00	0.00	Advertisement	02-2020	USD		0073
& D HEADOFFICE	Bill	000000072	3,700.00	0.00	0.00	5/7/2020	6/6/2020	6/6/2020	1.00000000	0.00	0.00	0.00	Advertisement	05-2020	USD		0074

Figure: The Check Number column on the Documents to Apply tab

The **Check Number** column appears on the **Application History** tab for payments with the *Open*, *Closed*, *Voided*, and *Reserved* statuses, as shown in the following screenshot.

Checks and Payments Payment 000029 - Blue	eline Adv	vertisemer	it										D NOTES	ACTIVITIES	FILES	CUSTOMIZA	TION TOOLS .
€ ≤ 0	+ =	0 *	K < >	N N	/OID												
Type Payment	+	Vendor:	BLUELINE	- Blueline Adv	ertisement	2	Payment Amou	int	3,5	28.00							^
Reference Nbr.: 000029	p	Location.	MAIN - Prin	nary Location		1	Inapplied Bala	ince.		0.00							
Status. Closed		Joint Payee	N				Application Am	ount		0.00							
Application Date: 5/11/2023	-	Payment Me	th CHECK			1	Finance Charg	03		0.00							
Application Pe. 05-2023		Cash Accou	t: 10200WH	Wholesale Ch	iecking												
Payment Ref 0073		Description															
DOCUMENTS TO APPLY			FINANCI	Amount	Cash	WID	COMPLIA Application	Application	Date	Due	Cash	Balance	Cash	Description	Currency	Post	Check Number
	ATTACT	19100	•1.11.	Pala	Taken	TillA	Penna	LART		Linter	Date		Balance			Period	
	P000176	BII	000000068	228 00	0.00	0.00	05-2023	5/11/2023	2/10/2020	3/11/2020	3/11/2020	0.00	0.00	Advertisement	USD	02-2020	0073
B D HEADOFFICE	P000176	Bill	000000072	3,700.00	0.00	0.00	05-2023	5/11/2023	5/7/2020	6/6/2020	6/6/2020	0.00	0.00	Advertisement	USD	05-2020	0074

Figure: The Check Number column on the Application History tab

Ability to Modify a Branch for Recognized Documents

In Acumatica ERP 2023 R2, a user can now modify the branch of a document recognized on the *Incoming Documents* (AP301100) form. The **Branch** box has been added to the Summary area of the form, as shown in the following screenshot.

Incoming Documents All_Fruits_Invoice.pd	lf		NOTES GLEBIC) CUSTOMIZATION TOOLS -
← + 🖻 K	SAVE AND CONTINUE	SEARCH FOR VENDOR	
Status: Type: • Vendor: • Location: • Branch: • Date: Due Date: Vendor Ref : Description	Recognized Bill ALLFRUITS - All Fruits Mall All - MAIN - Primary Location RETAIL - SweetLife Store 9/2/2022 10/2/2022 AR008287	All Fruits Mall 3340 Deans Lae, Arington New York, NY, 12803 Phone: 206:555-1212 Web: www.fruitmall in	INVOICE Reference Na:: A M002287 Date: 00.5 Ge-3022 Due Date: 05.0-0-2022 Custome 10: SVESTUFE Currency: USD
Amount:	810.60	BILL TO: SveetLife Fruits & Jams 3950 Hoffman Avenue, Elmont New York NY 11003 United States of America	SHIP TO: SweetLife Fruits & Jams 3950 Hoffman Avenue, Elmont New York NY 11003 United States of America
Ů + × ⊞	LINK PO LINE MAPPING OPTIONS -	-	
Alternate ID Invento	ry ID Transaction Descr.	Quantity UOM Unit Cost	Ext. Cost PO Number PO Receipt Nbr.
>	APPLES: Fresh apples 1 lb	123.00 2.5000	307.50
	ORANGES: Fresh oranges 1 lb	234.00 2.1500	503.10

Figure: The Branch box on the Incoming Documents form

By default, the **Branch** box displays the current branch under which the user is signed in to the system, but the user can override this setting. When the user clicks **Save and Continue** on the toolbar of the *Incoming Documents* form, the system generates an AP bill from the recognized document on the *Bills and Adjustments* (AP301000) form, and the selected branch is inserted in the **Branch** column on the **Details** tab for the document lines and in the **Branch** box on the **Financial** tab for the document.

Extended List of Entities on the Approval Maps Form

In previous versions of Acumatica ERP, on the *Approval Maps* (EP205015) form, there were three entities to map approval rules for the *Cash Sales* entity type (*Approval, AR Address,* and *AR Contact*). This set of entities did not provide sufficient flexibility. In Acumatica ERP 2023 R2, the entity list has been extended to also include the following entities, which are shown in the screenshot below:

- AR Bill-To Address
- AR Bill-To Contact

- AR Ship-To Address
- AP Ship-To Contact
- Customer Payment Method Details
- AR Transactions
- Cash Sale

Approval Maps Cash Sales -	Cash S	ales						<u>n</u>	OTES	ACTIVITIES	FILES	CUSTOMIZATIO	ON TOOLS -
< 5 B	\$	+	¢ v	۵.									
Map: * Name:	Cash S Cash S	ales ales		ې	D Entity	Type: Cash Sal	es						
Steps ADD STEP +	· ^	\checkmark	• ×	* Descriptio	n:	Rule							
⊡-È Step L-B Rule				CONDITIO	NS RULE	ACTIONS RT ↑ ↓	H						
				Active	Brackets	* Entity	* Field Name	*Condition	Value	Value	2 E	Brackets	Operator
				* ✓		Activities Approval AR Bill-To Address AR Bill-To Contact AR Ship-To Address AR Ship-To Contact AR Transactions Cash Sale Customer Customer	A Method Details	Equals					And

Figure: Extended list of entities for Cash Sales

The updated list of entities will give users the ability to create conditions based on amounts and customer details.

Legal Name on the Vendors Form and 1099 Forms and Reports

In previous versions of Acumatica ERP, the *Vendors* (AP303000) form had only the **Account Name** box to enter the name of the vendor. In some cases, however, the vendor name that is used in the system can be different from the vendor's legal name, which is used for some official reports, such as 1099 forms.

Starting in Acumatica ERP 2023 R2, the **Legal Name** box also appears on the **General** tab (**Account Info** section) of the *Vendors* form, as shown in the following screenshot. Initially, the system copies the name from the **Account Name** box to the **Legal Name** box, but a user can override this default setting.

Vendors BRANDGLUE - Brai	ndGlue		NOTES FILES CUSTOMIZATION TOOLS -
← □ □ Ω	+ 🗓 🗘 - K < >	× ···	
* Vendor ID: Vendor Status:	BRANDGLUE - BrandGlue	Balance: Prepayment Balance:	0.00
* Vendor Class:	SERVICES - Services Vendors 🖉 🧷	Retained Balance:	0.00
GENERAL FINANCI	AL PAYMENT PURCHASE SETTINGS	ATTRIBUTES LOC	ATIONS CONTACTS ACTIVITIES
ACCOUNT INFO		PRIMARY CONTACT	
* Account Name:	BrandGlue	Name:	First Name Last Name
* Legal Name:	BrandGlue Inc.	Job Title:	
ACCOUNT ADDRESS		Email:	
	ADDRESS LOOKUP	Business 1 🗸	
Address Line 1:	PO Box 5531	Cell ~	
Address Line 2:		VENDOR PROPERTIES .	
City:	Bellingham		Landed Cost Vendor
State:	WA - WASHINGTON ∇		Vendor Is Tax Agency
Postal Code:	98227		✓ 1099 Vendor
* Country:	US - United States of America 🖉	1099 Box:	MISC07/NEC02 - Direct Sales
ADDITIONAL ACCOUNT I	NFO		Foreign Entity
Business 1 🗸			☐ FATCA
Business 2 🗸			
Fax ~			
Account Email:			
Web:	https://brandglue-billing.freshbooks.co		
Ext Ref Nbr:			
Parent Account:	٩		

Figure: The Legal Name filled in for a 1099 vendor

Also, the **Legal Name** column has been added to the *Vendors (AP3030PL)* list of records; this column is hidden by default.

On the *1099-MISC Form* (AP653000) and *1099-NEC Form* (AP653100) reports, the vendor's legal name is now used in the generated report instead of the vendor's account name. On the *Create E-File* (AP507500) form, the vendor's legal name is now used in the generated e-file instead of the vendor's account name.

Upgrade Notes

After an upgrade to Acumatica ERP 2023 R2, on the *Vendors* form, the **Legal Name** box on the **General** tab will show the same setting as the **Account Name** box for all vendors created before the upgrade.

Ability to Add Branch Column to Processing Forms

In previous versions of Acumatica ERP, on multiple processing forms, the **Branch** column was not available for selection in the **Column Configuration** dialog box. Also, the **Source Branch** and **Destination Branch** columns were not available in the **Column Configuration** dialog box in the *Funds Transfers (CA3010PL)* list of records.

In Acumatica ERP 2023 R2, the **Branch** column has been added to the **Column Configuration** dialog box on the following forms:

- Release Transactions (GL501000)
- Post Transactions (GL502000)
- Run Allocations (GL504500)
- Release Vouchers (GL501500)
- Release AP Documents (AP501000)

- Check Register (AP404500)
- Process Payments / Print Checks (AP505000)
- Release Payments (AP505200)
- Bills Pending Payments (AP403000)
- Approve Bills for Payment (AP502000)
- Checks Pending Printing (AP404000)
- Batch Payments (AP305000)
- Release AR Documents (AR501000)
- Calculate Overdue Charges (AR507000)
- Print Invoices and Memos (AR508000)
- Commission Details (AR403000)
- Generate Payments (AR511000)
- Capture Payments (AR511500)
- Bank Deposits (CA305000)
- Release Cash Transactions (CA502000)
- Corporate Cards (CA202500)
- Card Payments Pending Review (CA403000)
- Release FA Transactions (FA503000)
- Delete Unreleased Transactions (FA508000)

By default, this column is hidden on these forms, but can be added by using the **Column Configuration** dialog box.

The **Source Branch** and **Destination Branch** columns have been added to the **Column Configuration** dialog box in the *Funds Transfers (CA3010PL)* list of records.

On these forms, users can more easily perform processes for documents related to a particular company or branch.

The **Branch**, **Source Branch**, and **Destination Branch** columns appear in the **Column Configuration** dialog box if the *Multicompany Support* or *Multibranch Support* feature is enabled (or if both features are enabled on the *Enable/ Disable Features* (CS100000) form).

The following screenshot illustrates the availability of the **Branch** column in the **Column Configuration** dialog box on the *Print Invoices and Memos* form.

F	Print	t Invo	oices and Me	emos									CUST	OMIZATION	TOOLS -
0	5	S	PROCESS	PROCESS ALL	v ~ ⊡	XV									Q
	Act	ion:	Print		×		🗸 Show All								^
	Ass	signed	To:			nfiguration					×				
1	Wo	rkgrou	p:		Available Colu	umns			Selected Colum	ns					
	0		Туре	Reference Nbr.	2 Branch		م]	Files		م ^	Date	Amount	Cash Discount	Currency
>	0		Credit Memo	00000039					Notes				33.93	0.00	USD
	0		Credit Memo	000068			6		Selected				60.00	0.00	USD
	0		Credit Memo	<u>000071</u>			0	→	Туре		\uparrow		43.00	0.00	USD
	0		Credit Memo	<u>000081</u>					Reference N	br.			110.00	0.00	USD
	0		Invoice	<u>000000001</u>					Status			0/2022	21,666.13	649.98	USD
	0		Invoice	00000002					Date			9/2022	14,000.00	420.00	USD
	0		Invoice	00000003					Post Period			4/2022	20,250.75	607.52	USD
	0		Invoice	00000004					Customer			3/2022	23,299.25	698.98	USD
	0		Invoice	00000005					Customer Na	ime		3/2022	15,000.00	450.00	USD
	0		Invoice	00000006					Due Date			7/2022	20,577.38	617.32	USD
	0		Invoice	00000007					Amount		-	0/2022	20,577.38	617.32	USD
	0		Invoice	00000008	DESET TO D						CANCEL	4/2022	20,033.00	600.99	USD
	0		Invoice	00000009	NEGET TO E		LETE DELADE	, soni i	SOMMON	J JK	OANOLL	1/2022	18,000.00	540.00	USD
	0		Invoice	00000010	Closed	4/11/2022	04-2022	VANIL	LO \	anillo Candy Space		5/11/2022	25,476.75	764.30	USD
	0		Invoice	000000011	Closed	4/18/2022	04-2022	JAMB	REE	ambree Sweet Events		5/18/2022	14,000.00	420.00	USD

Figure: The Column Configuration dialog box on the Invoices and Memos form

To add the **Branch** column to the table shown on the form, the user does the following:

- 1. Clicks the Column Configuration button (Item 1 in the screenshot above).
- 2. In the **Column Configuration** dialog box, which is opened, selects **Branch** (Item 2) in the **Available Columns** list.
- 3. Clicks the Add Column button (Item 3) to move the **Branch** column to the **Selected Columns** list.
- 4. Clicks **OK** to apply the changes and make the **Branch** column visible in the table.

Redesigned Bank Transaction Rules Form and Dialog Box

In Acumatica ERP 2023 R2, the Bank Transaction Rules (CA204500) form has been redesigned as follows:

- The **Matching Criteria** section has been removed and the **Matching Criteria** tab has been added instead (see Item 1 in the first screenshot below).
- The **Output** section has been removed and the **Output** tab has been added instead (Item 2; the tab is also shown in the second screenshot below).
- The **Payee/Payer** section has been added to the **Matching Criteria** tab with the **Payee/Payer** box and the **Use Wildcards (*, ?)** check box (Item 3). Users can specify a payee or payer as a criterion so that a cash transaction with a certain entry type can be created for bank transactions with the specified payee or payer.
- The Amount section has been added to the Matching Criteria tab (Item 4). The Amount Matching Mode box has been renamed to Matching Mode.

The following screenshot illustrates the redesigned Bank Transaction Rules form and the Matching Criteria tab.

Bank Transaction Rule Bank charges	es			<u> </u>	OTES	FILES	CUSTOMIZATION	TOOLS
← 🖺 🗎	∽ + ±	Ĉ v	K	<	>	×		
* Rule Description:	Bank charges							
1	Active 2							
MATCHING CRITER	RIA OUTPUT							
GENERAL				PAYE	EE/PAYE	ER		
Debit/Credit:	Disbursement		~ 3	Pay	vee/Pay	er:	Products Wholesale	
Cash Account:	10200 - Compa	ny Checking /	Q				Use Wildcards (*, ?)
Currency:	USD			AMO	UNT _			
Tran. Code:	CHRG			Ma	tching N	lode:	Between	~
DESCRIPTION			4	* Min	n. Amour	nt:	20.0000	
Tran. Description:				* Ma	x. Amou	int:	80.0000	
	Match Case							
	Use Wildcards	s (*, ?)						

Figure: The Matching Criteria tab of the Bank Transaction Rules form

The following screenshot shows the elements of the **Output** tab.

Bank Transaction Rules Bank charges			ı ۲	NOTES	FILES	CUSTOMIZATION	TOOLS -		
← 🕄 🗒	∽ +	Ū	Ĉ,	· I<	<	>	>I		
* Rule Description:	* Rule Description: Bank charges								
	Active								
MATCHING CRITER		PUT							
Action:	Create Doo	cument		~					
* Resulting Entry Ty	BANKFEE	- Bank I	ees	Q					

Figure: The Output tab of the Bank Transaction Rules form

The same UI changes have been introduced in the **Bank Transaction Rules** dialog box, which is opened when a user clicks **Create Rule** on the **Create Payment** tab of the *Process Bank Transactions* (CA306000) form. The setting in the **Payee/Payer** box will be copied from the bank transaction to the bank transaction rule.

On the *Import Bank Transactions* (CA306500), *Process Bank Transactions*, and *Bank Transactions History* (CA402000) forms, the **Payee Name** column has been renamed to **Payee/Payer**.

Custom Mapping Rules on the Bank Feeds Form

In previous versions of Acumatica ERP, users were not able to define which transaction data received from the bank via Plaid or MX bank feeds should be displayed in created bank transactions. This mapping could be defined in an import scenario, but not in the versions where the bank feed functionality has been added to the core product.

To address this issue, in Acumatica ERP 2023 R2, the **Custom Mapping Rules** tab has been added to the *Bank Feeds* (CA205500) form. On this tab, shown in the following screenshot, users can set up optional mapping between the bank feed fields and the bank transaction fields by specifying the source and target fields, respectively, and using formulas in the source field.

Bank Feeds MXNEW	NOTES FILES CUSTOMIZATION TOOLS -
← □ ∽	+ ı̈́ □ I< < > >I CONNECT ···
Bank Feed ID:	MXNEW , P Financial Institution:
Status:	Disconnected
Bank Feed Type:	MX ~
* Import Start Date:	1/1/2023 ~
Description:	
CASH ACCOUNTS	CUSTOM MAPPING RULES
с + х	SET DEFAULT MAPPING ⊣ 🔀
🖹 🕕 🗋 Active	* Target Field * Source Field or Value
	Ext. Ref. Nbr. =ISNULL([Check Number], [Transaction ID])

Figure: The Custom Mapping Rules tab with default mapping of the Bank Feeds form

By default, the table is empty. Users can set up the most common built-in rules by clicking the **Set Default Mapping** button on the table toolbar.

The following table shows the default mapping settings for Plaid bank feeds.

Active Target Field		Source Field
Selected	Ext. Ref. Nbr.	=ISNULL([Check Number], [Transaction ID])
Selected	Card Number	=TRIM(ISNULL([Account Owner], ''))

The following table shows the default mapping settings for MX bank feeds.

Active	Target Field	Source Field
Selected	Ext. Ref. Nbr.	=ISNULL([Check Number], [Transaction ID])

If mapping is defined in the table for a target field and the **Active** check box is selected, the custom mapping rule will have a priority over the core program mapping, if it exists for this field.

The list of all Plaid or MX incoming fields are available in the **Source Field** column, as shown in the following screenshot. They have also been added to the **Load Transactions in Test Mode** dialog box, which opens when a user clicks **Load Transactions in Test Mode** on the More menu of the *Bank Feeds* form.

Bank Feeds MXNEW ← ☐ ∽	+ 🛍 🗘 - K - < - > >I CONNECT	Operators Arithmetic Logical Comparison	Account ID] [Account String ID] [Amount] [Category GUID]
Bank Feed ID: Status: Bank Feed Type: Import Start Date: Description:	MXNEW P Disconnected MX 1/1/2023 CUSTOM MAPPING RULES	-Other -Other -Other -Conversion -Text -Math -Date/Time -Other -Other -Fields -Bank Feed Transaction	[Category] [Check Number] [Created At] [Currency Code] [Date] [Extended Transaction Type] [ID] [Is Bill Pay] [Is Direct Deposit] [Is Fore] [Is Fee] [Is Income] [Is International]
Ċ + × ≅ 0 0 Active © □ ✓ * 0 □ ✓	SET DEFAULT MAPPING H S *Target Field *Source Field or Value Ext. Ref. Nbr. =ISNULL([Check Number], [Trans	action ID])	VALIDATE OK CANCEL

Figure: Source field values

The Target Field column shows the fields of the resulting bank transactions, as shown in the following screenshot.

Bank Feeds MXNEW		☐ NOTES FILES CUSTOMIZATION TOOLS
← □ ∽	+ 🗓 🗘 - 🔟 <	> >I CONNECT ···
Bank Feed ID:	MXNEW ,P	Financial Institution:
Status:	Disconnected	
Bank Feed Type:	MX ~	
* Import Start Date:	1/1/2023 ~	
Description:		
CASH ACCOUNTS	CUSTOM MAPPING RULES	
с + х	SET DEFAULT MAPPING ⊣	X
Active	* Target Field	* Source Field or Value
0 D 🗹	Ext. Ref. Nbr.	=ISNULL([Check Number], [Transaction ID])
* 0 D	~	
	Ext. Ref. Nbr. Tran. Desc Custom Tran. Desc. Card Number Invoice Nbr.	
	Payee Name Tran. Code Payment Method	

Figure: Target field values

For details, see To Set Up Mapping Rules.

Test Bank Feed

The previous versions of Acumatica ERP did not provide possibility to test the bank feed functionality with Plaid sandbox data. The system always connected to the production AWS that then always connected to production

Plaid environments. The only option to connect to the staging AWS was to update the settings in the Web.Config file.

In Acumatica ERP 2023 R2, on the *Bank Feeds* (CA205500) form, the *Plaid Test* option has been added to the **Bank Feed Type** box, as shown in the following screenshot.

Bank Feeds PLAID TEST - P	laid test bank feed		NOTES	FILES CUSTOMIZATI	ON TOOLS -
← □ ∽	+ 🛍 🗘 🗸 ،<	> > CONNECT	•••		
Bank Feed ID: Status:	PLAID TEST ,O Disconnected	Financial Institution:			
Bank Feed Type: * Import Start Date:	Test Plaid ~ Plaid MX				
Description:	Test Plaid				
CASH ACCOUNTS	CUSTOM MAPPING RULES				
⊘ ⊶ ⊠					
B D Account Name	Account Mask Description	Cash Account St Pe	tatement State eriod Star	ement Import t Day Transactions From	Currency

Figure: The Test Plaid option in the Bank Feed Type box

When a user selects this option, the system sends a request to the Plaid sandbox, and then AWS uses the sandbox credentials to access to the Plaid sandbox environment. Plaid allows the creation of an unlimited number of connections in its sandbox.

Sandbox credentials for different authentication methods can be viewed at *https://plaid.com/docs/sandbox/test-credentials/#sandbox-simple-test-credentials*. Most actual steps flow for a particular bank in sandbox environment can be viewed at *Plaid website*.

Ability to Delete Customer Statements

In previous versions of Acumatica ERP, users could not delete any customer statements that had been generated.

Acumatica ERP 2023 R2 introduces the ability to delete the most recent customer statements. On the form toolbar of the *Statement Cycles* (AR202800) form, the new **Delete Last Statements** button has been added (as the following screenshot shows). This button is available only for users with the *Financial Supervisor* role assigned on the *Users* (SM201000) form.

tatement Cycle OM - End	of Mor	nth					D NOTES	ACTIVITIES	FILES	TOOLS
6 D (+ 0 -	K < >	Я	REGENERATE LAST STATEMENTS	DELETE LAST STATEMENTS				
GENERAL SET	TINGS			_						
Oycle ID:		EOM		p						
Description:		End of Month								
Schedule Typ	200	End of Month ~								
Last Stateme	ent Date:	9/30/2023								
		Require Payment Applica	ation Before Stater	ment						
		Print Empty Statements								
AGING SETTI	VGS			_						
Aging Period	(Days)	Use Financial Periods for Description	r Aging							
Gurrent		Current								
1	10	1 - 10 Days Past Due								
11 -	30	11 - 30 Days Past Due								
31 -	60	31 - 60 Days Past Due								
Over	60	Over 60 Days Past Due								
Age Based O	in:	Due Date	~							

Figure: The new Delete Last Statements button

When a user clicks the **Delete Last Statements** button (Item 1 in the following screenshot), a dialog box with the message asking for confirmation of deletion is displayed (Item 2). Once a user clicks **Delete** in the dialog box, the system deletes the last generated customer statements.

Statement Cycles EOM - End of Mor	nth	0	DINOTES ACTIVITIES FILES TOOLS -
4 2 2 V	o + @ ⊙ + K < > >I	REGENERATE LAST STATEMENTS DELETE LAST STATEMENTS	
GENERAL SETTINGS			
+ Cycle ID:	EOM ,0		
Description	End of Month		
Schedule Type:	End of Month +		
Last Statement Date	9/30/2023		
	Require Payment Application Before Statement		
	Print Empty Statements	2	
AGING SETTINGS		Delete Customer Statements ×	
Anna Perind (Dave)	Use Financial Periods for Aging	The customer statements generated on the 9/90/2023 date for the EOM	
Current		statement cycle will be deleted. To proceed, click Delete	
	Current	DELETE CANCEL	
1 10	11 20 David Past Due	DELETE CANDEL	
74 - 60	21 - 20 Days Flast Ove		
Over en	Over 60 Days Past Due		
00	Over ou Days Pasi Due		
Age Based Om	Due Date +		

Figure: The Delete Customer Statements warning message

Once the last customer statements are deleted, a user can delete the statements that now have the latest date (which became the most recent statements after the later customer statements were deleted).

The New Due Date Calculation Method in Credit Terms

In the accounts receivable and accounts payable documents of Acumatica ERP, the document due date is calculated based on the document's creation date and on the credit terms applied to the document.

In Acumatica ERP 2023 R2, a new due date type has been implemented. On the *Credit Terms* (CS206500) form, in the **Due Date Type** box (**Due Date Settings** section), the new *10th, 20th, or Last Day of Next Month* option, which defines the method of due date calculation, has been added (shown in the following screenshot).

Credit Terms New Record			🗋 NOTE	S FILES	CUSTOMIZATION	TOOLS -
← 🖺 🗒	∽ + ı́ ı́ , < <	>	>I			
GENERAL SETTIN	IGS	_	SALES ORDER PREPAYM	ENT SETTING	S	
* Terms ID:	م			Prepayment	Required	
* Description:			Prepayment Percent:	0.0	0	
Visible To:	All ~		INSTALLMENTS SETTING	s		
DUE DAY SETTING	GS	-	Installment Type:	Single		~
Due Date Type:	Fixed Number of Days 🗸	1	Number of Installments:	0		
Due Day 1:	Fixed Number of Days	1	Installment Frequency:	Weekly		
Due Day 2:	Day of Next Month End of Month		Installment Method:	Equal Parts		
CASH DISCOUNT	End of Next Month		Installments Schedule			
Discount Type:	Day of the Month Fixed Number of Dave starting Next Month		\diamond + \diamond			
Discount Day:	Fixed Number of Days Starting Next Month			31/6		Percent
Discount %:	10th, 20th, or Last Day of Next Month		- L	ays		reitent
	Custom					

Figure: The new due date calculation option

The 10th, 20th, or Last Day of Next Month due date type defines the day when the document is due. If this type is specified in the credit terms in the **Due Date Type** box on the *Credit Terms* form, and this credit terms are applied to the document, the due date of the document will be determined according to the ten-day range of the month of the document creation (the first ten-day range, the second ten-day range, or the third ten-day range of the month) as follows:

- If the document creation date is in the range of the 1st to 10th day of the month, then the due date is the 10th day of the next month.
- If the document creation date is in the range of the 11th to 20th day of the month, then the due date is the 20th day of the next month.
- If the document creation date is in the range of the 21st day of the month to the end of the month, then the due date is the last day of the next month.

The following table shows exam	nles of the due date calculation.
The following lable shows exam	ples of the due date calculation.

Document Creation Date	Due Document Date
01/01/2023	02/10/2023
01/10/2023	02/10/2023
01/11/2023	02/20/2023
01/20/2023	02/20/2023
01/21/2023	02/28/2023
01/31/2023	02/28/2023
02/21/2023	03/31/2023
02/28/2023	03/31/2023

If the 10th, 20th, or Last Day of Next Month option is specified in the **Due Date Type** box, the following limitations are applied to the UI elements on the Credit Terms form:

- All boxes of the **Due Date Settings** section become unavailable for editing.
- Only the *End of Month*, *Day of the Month*, and *Day of Next Month* options can be selected in the **Discount Type** box in the **Cash Discount Settings** section. If an administrative user selects any other option in the list, the system displays a warning message.

Release of Retainage for Migrated Documents in Migration Mode

Starting in Acumatica ERP 2023 R2, when migration mode is turned on in the AR or AP subledger, a user can initiate creation of the retainage AR documents or AP documents for the migrated documents with retainage as follows:

- By running the process on the *Release AR Retainage* (AR510000) form, which causes the creation of the retainage invoices or credit memos on the *Invoices and Memos* (AR301000) form. The system assigns the created documents the *Balanced* status or the *On Hold* status, depending on whether the **Hold Documents on Entry** check box is cleared or selected on the *Accounts Receivable Preferences* (AR101000) form. The created retainage invoices or credit memos are not released automatically regardless of the state of the **Automatically Release Retainage Documents** check box on the *Accounts Receivable Preferences* form.
- By running the process on the *Release AP Retainage* (AP510000) form. This causes the creation of the retainage bills or debit adjustments on the *Bills and Adjustments* (AP301000) form. The system assigns the created documents the *Balanced* status or the *On Hold* status, depending on whether the **Hold Documents on Entry** check box is cleared or selected on the *Accounts Payable Preferences* (AP101000) form. The created retainage bills or debit adjustments are not released automatically regardless of the state of the **Automatically Release Retainage Documents** check box on the *Accounts Payable Preferences* form.

During the process of creating these retainage documents, the general ledger accounts are not affected.

To turn on migration mode for the AR subledger, an administrative user has to select the **Activate Migration Mode** check box on the **General** tab (**Posting Settings** section) of the *Accounts Receivable Preferences* form. To turn on migration mode for the AP subledger, the administrative user selects the **Activate Migration Mode** check box on the *Accounts Payable Preferences* form. After document migration, the administrator turns off migration mode.

The system automatically creates a consolidated retainage AR invoice or credit memo if multiple documents are selected for processing and special conditions are met. For details, see *Finance: Consolidated Retainage Invoices in AR*.

On the *Invoices and Memos* or *Bills and Adjustments* form, before releasing a retainage document, a user can reduce its balance, if needed.

Note that payments by lines are not supported for migrated documents, so the **Pay by Line** check box is cleared and unavailable in the Summary area of the *Invoices and Memos* and *Bills and Adjustments* forms for these documents, regardless of the **Pay by Line** setting on the *Customers* (AR303000) or *Vendors* (AP303000) form. Also note that in migration mode, retainage cannot be released for regular (non-migrated) documents.

Integrations: Enhancements in the On-the-Fly Editing of Package Dimensions

Acumatica ERP 2022 R2 introduced the ability to change box dimensions on the **Packages** tab of the *Shipments* (SO302000) form, on the *Pick, Pack, and Ship* (SO302020) form (in Ship mode), and in the **Shop for Rates** dialog box on the *Sales Orders* (SO301000) and *Shipments* form.

In Acumatica ERP 2023 R2, this functionality has been enhanced based on users' feedback.

Restricted Editing of Dimensions

Some carrier services have flat rates for standard sizes of packages. On the *Boxes* (CS207600) form, each box used for such a package can be marked as a carrier's package. Changing the dimensions of these boxes can lead to the incorrect calculation of shipping rates. To avoid this issue, the new **Editable Dimensions** column (shown in the following screenshot) has been added to the *Boxes* form.

Boxes එ - න	+ × H X									CUSTO	MIZATION
B * Box ID	Description	Box. Weight	Max. Weight	Weight UOM	Max Volume	Volume UOM	Length	Width	Height Linear UOM	Carrier's Package	Editable Dimensions
< LARGE	Large Box	0.0500	20.0000	KG	20.0000	LITER	12.00	12.00	6.00		
MEDIUM	Medium Box	0.0300	10.0000	KG	10.0000	LITER	11.00	8.00	5.00		
SMALL	Small Box	0.0200	4.0000	KG	4.0000	LITER	8.00	5.00	1.00		
USPSLARGE	USPS Large Box	0.0500	9.0000	KG	9.0000	LITER	30.00	30.00	14.00	LargeF	
USPSMEDIUM	USPS Medium Box	0.0500	9.0000	KG	9.0000	LITER	28.00	21.00	14.00	FlatRat.	
USPSSMALL	USPS Small Box	0.0200	1.8000	KG	1.8000	LITER	21.00	13.00	4.00	SmallF	

Figure: The Editable Dimensions check box

By default, the check box in the **Editable Dimensions** column is cleared for a new box. Also, after the upgrade to Acumatica ERP 2023 R2, the check box will be cleared for all boxes that already exist in the system.

When a user adds a box for which the **Editable Dimensions** check box is cleared on the *Boxes* form, the dimensions of this box—such as length, width, or height—will not be available for editing in the following places: .

- On the Packages tab of the Shipments (SO302000) form
- On the *Pick, Pack, and Ship* (SO302020) form (in Ship mode)
- In the Shop for Rates dialog box on the Sales Orders (SO301000) or Shipments form

The **Editable Dimensions** column will be shown on the listed forms where the user can add a box to a package; the column on these forms will always be unavailable for editing.

Decimal Places for Dimensions

The values in the **Length**, **Width**, and **Height** columns have been changed from integer to decimal on the following forms:

- On the Boxes (CS207600) form
- On the Packages tab of the Shipments (SO302000) form, as shown in the following screenshot
- On the Pick, Pack, and Ship (SO302020) form (in Ship mode)
- In the Shop for Rates dialog box on the Sales Orders (SO301000) or Shipments form

Shipments 000067 - Fou	rStar Co	ffee & Sw	eets Shop						NOTES	ACTIVITIES	FILES	CUSTOMIZATION
< 5 8	5	+ 🗊	IK K	> >I C	ONFIRM SHIPMENT	HOL	.p					
Shipmont Nbr.	000067	,0	Customer	COFFEESHOP	- FourStar Coffee & Swe	0	Shipped Quant	5.00				
Туре	Shipment		Location	MAIN - Primary	Location		Shipped Weight	14.200000				
Status	Open		Warehouse ID	WHOLESALE -	Wholesale Warehouse		Shipped Volume	14.200000				
Operation	Issue		Workgroup		ي ا		Packages	1				
* Shipment Date:	5/15/2023	~	Owner:		2,		Package Weight	0.000000				
Description	Sale of jar	ns										
DETAILS O	RDERS	SHIPPING	PACKAGES									
0 + x	[⊷]	x										
🗟 🛈 🗋 Confirm	ec *Box	D	Туре	Description	Editable Dimension	Le	ngth Width	Heig	ht Linear UOM	We	ght UOM	Declared Value
× OD D	LARC	3E	Manual			12	2.00 12.00	6.0	0	0.00	00 KG	0.0000

Figure: Decimal places in the Length, Width, and Height columns

Integrations: Mass Validation of Addresses in Documents

In Acumatica ERP, a user can import documents such as sales orders, purchase orders, or invoices via import scenarios. When a document is imported into the application, it may require additional validations, such as address validation, which is available if the *Address Validation Integration* feature is enabled on the *Enable/Disable Features* (CS100000) form.

In previous versions of Acumatica ERP, the procedure of address validation could be performed only for one document at a time. Thus, the process of validating multiple addresses could be time-consuming if the number of documents was large.

In Acumatica ERP 2023 R2, the ability to mass-validate addresses in documents has been implemented. These capabilities reduce the time and effort needed to validate addresses.

Mass-Validation of Addresses in Documents

To enable users to validate multiple addresses in documents simultaneously, the following forms have been added to Acumatica ERP:

- Validate Addresses in AP Documents (AP508000): On this form, a user can validate the addresses in payments, prepayment, and refunds.
- Validate Addresses in AR Documents (AR509010): On this form, a user can validate the addresses in cash sale documents, invoices, and memos.
- Validate Addresses in Purchase Documents (PO507000): On this form, a user can validate the addresses in purchase orders.
- Validate Addresses in Sales Documents (SO508000): On this form, a user can validate the addresses in sales orders, shipments, and sales invoices.
- Validate Addresses in CRM Documents (CR508000): On this form, a user can validate the addresses in opportunities, sales quotes, and project quotes.
- Validate Addresses in Project Documents (PM507000): On this form, a user can validate the addresses in projects and project quotes.

The new forms are available only if the *Address Validation Integration* feature is enabled on the *Enable/Disable Features* (CS100000) form. The functionality of the new forms, which is shown in the following screenshot of the *Validate Addresses in AR Documents* form, differs only in the set of documents that can be processed on them.

Validate Addresses in AR さ っ validate vali	Documents DATE ALL ヴィート	X Y					
Country. US - U Document Type: Involce	nited States of America 🔎 s and Memos 🧹	🗌 Override Addresses Au	tomatically				
B Document Nbr	DocumentType Status	Address Line 1	Address Line 2	City	State	Postal Code	Country
> <u>Invoice_000097</u>	Invoices and Memos On Hold	4056 Taylor Street, Sta	de	New York	NY	10310	US
Cl Invoice_000097	Invoices and Memos. On Hold	4056 Taylor Street, Sta	ile	New York	NY	10310	us

Figure: The Validate Addresses in AR Documents form

When the user selects a country in the **Country** box and a type of document in the **Document Type** box in the Selection area, the system shows all eligible documents in the table below. The user can select specific records and click **Validate** on the form toolbar to validate the addresses only in the selected documents, or the user can click **Validate All** to process all documents in the table.

Other Changes

To avoid confusion among users, the existing *Validate Addresses in Profiles* (CR509020) form has been renamed to *Validate Addresses in Profiles*. On this form, a user can validate the addresses specified in business accounts,

customers, and vendors if the *Address Validation Integration* feature is enabled on the *Enable/Disable Features* (CS100000) form.
Integrations: Support of Freight Brokers

Freight brokers provide services that facilitate the process of shipping goods, especially for international shipments, by negotiating freight rates, taking an active hand in customs clearance, and resolving problems that occur. In previous versions of Acumatica ERP, a user could not specify a freight broker for a shipment that was shipped by an external carrier service.

Starting in Acumatica ERP 2023 R2, the user can specify a freight broker for shipments with the EasyPost FedEx carrier service.

Specifying a Broker in a Shipment

For an international shipment with the EasyPost FedEx carrier service that has the *INTERNATIONAL_PRIORITY*, *INTERNATIONAL_ECONOMY*, or *FEDEX_GROUND* service method, on the **Shipping** tab of the *Shipments* (SO302000) form, the user can select an existing broker in the new **Broker** box in the **Broker Info** section (shown in the following screenshot). When the shipment is confirmed, the system sends this information to the external carrier service. When a commercial invoice is created for the shipment, information about the broker is shown in the *Brokerage* section.

Shipments 005040 - Fun	ny Toys	s Itd.																
< ₽ 8	 ທ	+	Û	к	<	>	×	C	ONF	FIRM SHIPM	ENT	но	LD					
Shipment Nbr.: Type: Status: Operation: * Shipment Date:	Nbr.: 005040 O Customer: FUNNYTO Shipment Location: MAIN - Prin Open Warehouse ID: WHOLESA I: Issue Workgroup: Date: 5/15/2023 Owner:				DYS - Funny Toys Itd. imary Location ALE - Wholesale Warehouse					Shipped Quant10.00Shipped Weight:8.000000Shipped Volume:10.000000Packages:1Package Weight:8.030000								
Description:																		
DETAILS O	RDERS	SHIF	PING	PAC	CKAGES													
SHIP-TO CONTA	(CT								SHI	PPING INFO	RMATIO	N						
Account Name:	Override Contact Count Name: Funny Toys Itd.				Ship Via: EASYFED - O SHOP FOR RA							ATES						
Phone 1:										FOB Point:								Q
Email:		glenn(@funny	toys.con	n			Shipping Terms:							م م			
SHIP-TO ADDRE	:SS	Over	rride Ad	Idress DOKUP						Terms Of Sa Billing Refere	le (Incote ence # (E	erm): DH	DDU -	Deliver	ed Du s Veri	ity Un-I	Paid	×
Address Line 1: Address Line 2		Rue d	e Rivoli	, 278						Delivery Cor	nfirmatior	1:	None					~
City:		Paris								Endorsemen	it:		No En	dorsem	ent Se	ervice		~
Country: State:	try: FR - France										🗌 Resi 🗌 Satu	dential [rday De Custom	Delive livery	ry				
Postal Code:		12056	4										Insu	rance	omers Account			
Lautude:										Freight Curre	ency:		USD	,0 1.0	0	*	VIE	N BASE
BROKER INFO								1		Freight Cost		0.00						
Broker: Catherine G. Limones						Invoice Freight Price B Shipment												

Figure: The Broker box

Adding the Broker Information

On the new *Brokers* (SO303500) form (shown in the following screenshot), the user can add information about the freight brokers who will escort goods and resolve shipping issues. This form appears only if the *Shipping Carrier Integration* feature is enabled on the *Enable/Disable Features* (CS100000) form.

Brokers Catherine G. Limones $(\neg \)$ $()$ $()$ $()$ $()$ $()$ $()$ $()$										
Broker: Status: DETAILS	Catherine G. Limones ,O Active ~									
CONTACT		ADDRESS								
First Name:	Catherine	* Address Line 1:	4851 Tree Top Lane							
* Last Name:	G. Limones	Address Line 2:								
* Company Name:	Life Map	* City:	Wayne							
Job Title:	General Manager	* State:	NY - NEW YORK	Q						
Email:	CatherineGLimones@shipquick.com	* Postal Code:	19087							
Business 1 🗸 *	610-254-9155	* Country:	US - United States of America	P 0						
Web:	۲ ک									

Figure: The Brokers form

Integrations: Other Improvements

In Acumatica ERP 2023 R2, more improvements to processes and UI of carrier integrations have been introduced, as described below.

Country Information for International Shipments

In previous versions of Acumatica ERP, an inconsistency could occur in a shipment delivered by an external carrier service when the **Use Customer's Account** check box was selected on the **Shipping** tab of the *Shipments* (SO302000) form. The carrier account number, postal code, and carrier billing type were sent to the external carrier from the data specified for the customer of the carrier on the **Customer Accounts** tab of the *Carriers* (CS207700) form. But the country ID, which was also required for the customer *Locations* (AR303020) form. For international shipments, the country of a customer and carrier account could differ, resulting in the inability to confirm the shipment.

In Acumatica ERP 2023 R2, the **Country** column (shown in the following screenshot) has been added to the **Customer Accounts** tab of the *Carriers* (CS207700) form. This value will be sent to the external carrier when the **Use Customer's Account** check box on the **Shipping** tab of the *Shipments* (SO302000) is selected in a shipment delivered by an external carrier service.

Carriers EASY	5													
÷			S	+	+ 🗊 K < > >I TEST CONNECTION									
* Carr	ier ID:			EASY				Q	Carrier L	Inits:	SI Units (Kilogra	am/ ~	
Des	Description:				* Kilogram: KG 🔎									
* Plug	* Plug-In (Type): PX.EasyPostCarrier.EasyP		asyPos	Q	• Centimeter:				Q					
									Warehou	se:			Q	
PLUG	G-IN PA	RAMET	ERS	CUS	TOME	RACCO	UNTS	-						
Q	+	×	↔	X										
E Ac	*Cust ID	omer	С	ustomer I	Name			Location	* C A	arrier ccount	Country	Country Posta		Carrier Billing Type
VANILLO Vanillo Candy Space				4	54654	US A Receiv			Receiver					

Figure: The Country column

Improvements in Carrier-Related UI Elements

For the following carriers, the list of available options on Acumatica ERP forms has been extended with the currently available parameters from the EasyPost carrier provider.

			-	•	
Iahl	e٠	Shi	n⊦n	aine	carrier
	. .	U	~~~	9	currer

Form	UI Element
Sales Orders (SO301000)	The Delivery Confirmation box on the Shipping tab
Shipments (SO302000)	The Delivery Confirmation box on the Shipping tab

Table: Stamps.com carrier

Form	UI Element
Sales Orders (SO301000)	Delivery Confirmation box on the Shipping tab

Form	UI Element
Shipments (SO302000)	Delivery Confirmation box on the Shipping tab

The following UI elements will no longer be shown on the Acumatica ERP forms for specific carriers.

Table: ShipEngine carrier

Form	UI Element
Sales Orders (SO301000)	Endorsement box on the on the Shipping tab
Shipments (SO302000)	Terms of Sale (Incoterm) box on the Shipping tab
Shipments	Endorsement box on the on the Shipping tab
Shipments	Billing Reference(#DHL) box on the Shipping tab
Shipments	EEL/PFC(EasyPost) column on the Packages tab

Table: Stamps.com carrier

Form	UI Element
Sales Orders (SO301000)	Endorsement box on the on the Shipping tab
Shipments (SO302000)	Terms of Sale (Incoterm) box on the Shipping tab
Shipments	Endorsement box on the on the Shipping tab
Shipments	Billing Reference(#DHL) box on the Shipping tab

Inventory and Order Management: Ability to Disable Automatic Line Discounts for Sales Prices

In previous versions of Acumatica ERP, there was no way to exclude automatic line discounts from lines with a particular sales price, even though such prices as promotional prices were already discounted. In Acumatica ERP 2023 R2, now it is possible to disable automatic line discount calculation for a particular price on the *Sales Prices* (AR202000) form.

The functionality is available if the *Customer Discounts* feature is enabled on the *Enable/Disable Features* (CS100000) form.

Enhancements on the Sales Prices and Sales Price Worksheets Forms

In Acumatica ERP 2023 R2, various enhancements have been made to different forms to disable automatic line discount calculation, as described below.

On the Sales Price Worksheets (AR202010) form, the Ignore Automatic Line Discounts check box has been added to the Summary area. If the user selects this check box, the system selects the newly added Ignore Automatic Line Discounts check box (described and shown below) for all lines. If the user clears this check box, the system clears this check box for all the lines. The user can select or clear the check box for certain lines, if necessary. If the check box is selected for a line, the system sets the state of the Ignore Automatic Line Discounts check box to selected on the Sales Prices (AR202000) form when worksheets are released on the Sales Price Worksheets form and when prices are added or updated on the Sales Prices form.

In the Summary area on the *Sales Price Worksheets* form, the **Ignore Automatic Line Discounts** check box will be selected automatically if the **Promotional** check box is selected.

• In the table of the *Sales Price Worksheets* form, the **Ignore Automatic Line Discounts** column has been added, as shown in the following screenshot.

Sales Price Worksho 000002 - Increa	ase food pric	ces by 1	0%											
7 ~ 9	2) +			, ,,										
Reference Nbr.: 000002 O Effective Date: 9/30/2016					Promotional									
Status:	Released	Expl	ration Date:		Ignore Automatic Line Discounts									
Tax Calculatio 1	Not Set -		Over	write Overlapping Prices										
Description	ncrease food pric	es hy 10%												
Description.	notense roos priv													
0 + ×	ADD (TEM	colle (es	RICES CALCUL											
🗄 Price Type	Price Code	Alterna ID	* Inventory ID	Description		*UOM	War	Break Qty	Source Price	Pending Price	* Currency	Ignore Automatic Line Discounts	Tax Category	
> Base			AAPOWERAID	Powerald 32 Oz - lot number	red	EA		0.00	1.00	1.100000	USD		EXEMPT	
Base			FOODBREAD	Hot Dog Buns 8 PK (12per	back)	EA		0.00	34.65	38.120000	USD		EXEMPT	
Base			EOODCHIP36	Wise Potato Chips 1.25oz B	ags / 36PK	EA		0.00	20.00	22.000000	USD		EXEMPT	
Base			FOODCHOC	Hershey Chocolate Kisses	.5 Lbs	EA		0.00	13.49	14.840000	USD		EXEMPT	

Figure: The added Ignore Automatic Line Discounts check box on the Sales Price Worksheets form

If a user creates a sales price worksheet by clicking the **Create Price Worksheet** button on the form toolbar of the *Sales Prices* form, the system copies the state of the check box from the column of the *Sales Prices* form to the column of the *Sales Price Worksheets* form for each row. The default value will remain in the Summary area.

 In the Price Type to Add section of the Add Item to Worksheet dialog box, which opens when user clicks the Add Item button on the Sales Price Worksheets form, the Ignore Automatic Line Discounts check box has been added.

- If the user clicks the **Copy Prices** button and opens the **Copy Prices** dialog box to copy prices, the system copies the state of the **Ignore Automatic Line Discounts** check box of the current sales price list from the *Sales Prices* form to the sales price worksheet for each line added.
- In the table of the *Sales Prices* form, the **Ignore Automatic Line Discounts** column has been added, as shown in the following screenshot.

Sales	Prices														
	CREATE P	ICCE WORKSHEET													
Prior	Type:	All Prices	*	them Class (D		p	Price Class			,p					
Price	r Code			Inventory ID:		Q	Price Manager			,0	Me				
Tax	Calculation Mode	All Modes	~	Warehouse		Q	Price Workgroup			,A I	[My				
Effec	sive As Of	6/15/2023 -													
0	+ × H	8													
E 0 C	Price Type	Price Code	* Inventory ID	Description	*00M	Warehouse	Promotion	Ignore Automatic Line Discounts	Break Qty	Price	*Currency	Tax Calculation Mode	Tax Category	Effective Date	Expiration Date
	Base		AACOMPUT01	Acer Laptop Computer	EÅ			D	0.00	500.00	USD	Not Set	EXEMPT	1/1/2012	
9.0	Customer	ABARTENDE	AACOMPUT01	Acer Laptop Computer	EA			B	3.00	475.00	USD	Not Set	EXEMPT	5/1/2015	
8 0	Customer	AACUSTOMER	AACOMPUT01	Acer Laptop Computer	EA		12		3.00	475.00	USD	Not Set	EXEMPT	7/11/2020	
8 0	Customer Price C	WHOLESALE	AACOMPUT01	Acer Laptop Computer	EA			D	0.00	475.00	USD	Not Set	EXEMPT	1/1/2018	
8.5	Customer Price C	WHOLESALE	AACOMPUT01	Acer Laptop Computer	EA				3.00	450.00	USD	Not Set	EXEMPT	1/1/2018	
8 0	Base		AALEGO500	Lego 500 piece set	EA		101	D	0.00	110.00	USD	Not Set	TAXABLE	9/30/2016	
8 0	Base		AAMACHINE1	Injection molding machine - serial numbered	EA		0.	Ó	0.00	30,000.00	USD	Not Set	EXEMPT	1/1/2012	
0.0	Base		AAPOWERAID	Powerald 32 Oz - lot numbered	EA		0	D	0.00	1.12	USD	Not Set	EXEMPT	1/1/2019	
8.0	Base		CONAIRT1	Harvil 4 Foot Air Hockey Table	EA			0	0.00	142.45	USD	Not Set	TAXABLE	9/30/2016	

Figure: The Ignore Automatic Line Discounts column on the Sales Prices form

If the check box is selected, line discounts that are defined on the *Discounts* (AR209500) form are not calculated and applied automatically to lines with the price on the *Sales Orders*, *Invoices*, and *Invoices and Memos* forms. If this check box is cleared, the prices are included in discount calculation.

Changes on the Data Entry Forms

On the **Details** tab of the *Sales Orders* (SO301000), *Invoices* (SO303000), and *Invoices and Memos* (AR301000) forms, the **Ignore Automatic Line Discounts** column has been added. The column is initially hidden, but by using the **Column Configuration** dialog box, a user can make it visible on the form. If the read-only check box is selected for a line on one of these forms, automatic line discounts are not applied to this line.

Users can specify manual discounts in lines for which automatic line discounts have been disabled.

When a user clicks the **Recalculate Prices** command in the More menu of the *Sales Orders*, *Invoices*, or *Invoices and Memos* form, the **Recalculate Prices** dialog box opens. Discounts will be applied to or removed from a line on the form as follows:

- The automatic line discounts will be removed from a line on any of the aforementioned forms if both of the following conditions are met:
 - If the price of the item in the line of the form has been changed on the *Sales Prices* (AR202000) form to a price that is skipped from the recalculation discount process (that is, the **Ignore Automatic Line Discounts** check box has been selected)
 - If in the Recalculate Prices dialog box, the Set Current Unit Prices check box is selected
- The automatic line discounts will be applied to a line on any of these forms if both of the following conditions are met:
 - If the price of the item in the line of the form has been changed on the *Sales Prices* form from a price that is skipped in the discount calculation to a price that is included in the recalculation discount process (that is, the **Ignore Automatic Line Discounts** check box has been cleared)
 - If in the Recalculate Prices dialog box, the Set Current Unit Prices check box is selected
- The system will recalculate and apply only the discounts for a line (prices will remain the same) on any of these forms if both of the following conditions are met:
 - If in the **Recalculate Prices** dialog box, the **Set Current Unit Prices** check box is cleared and the **Recalculate Discounts** check box is selected

- If the Ignore Automatic Line Discounts check box is cleared in the line
- The system will remove the manual discount for a line on any of these forms if both of the following conditions are met:
 - If in the **Recalculate Prices** dialog box, the **Recalculate Discounts** check box and **Override Manual Line Discounts** check box are selected
 - If the Ignore Automatic Line Discounts check box is selected in the line

Discounts will be applied to a line automatically if a price has been specified in the line manually. (In this case, the system clears the **Ignore Automatic Line Discounts** check box and automatically recalculates the discounts for the line.)

Other UI Changes

In Acumatica ERP 2023 R2, a change has been introduced on the Accounts Receivable Preferences (AR101000) form.

On the **Pricing** tab of this form, the **Apply Line Discount to Prices Specific To** check boxes, which allowed automatic line discounts to be applied to prices with the *Customer* and *Customer Price Class* types, have been removed.

Upgrade Notes

After the system upgrade, the **Ignore Automatic Line Discounts** check box will be selected on the *Sales Price Worksheets* (AR202010) and *Sales Prices* (AR202000) forms in the following lines:

- Lines with prices of the *Customer* type if in the previous version of Acumatica ERP, the **Customer** check box
 was cleared in **Apply Line Discount to Prices Specific To** on the **Pricing** tab of the *Accounts Receivable Preferences* (AR101000) form.
- Lines with prices of the *Customer Price Class* type if in the previous version of Acumatica ERP, the **Customer Price Class** check box was cleared in **Apply Line Discount to Prices Specific To** on the **Pricing** tab of the *Accounts Receivable Preferences* form.

If neither condition listed above was met for a line on the *Sales Price Worksheets* and *Sales Prices* forms, the **Ignore Automatic Line Discounts** check box will be cleared in the line after the upgrade.

Also, in the lines with **Fair Value** check box selected on the *Sales Price Worksheets* and *Sales Prices* forms, the **Ignore Automatic Line Discounts** check box will always be cleared.

The **Fair Value** and **Ignore Automatic Line Discounts** check boxes are mutually exclusive. That is, if on the *Sales Price Worksheets* form or *Sales Prices* form, one of these check boxes for a line is selected, the other check box is cleared and not available for selection.

On the **Details** tab of the *Sales Orders* (SO301000), *Invoices* (SO303000), and *Invoices and Memos* (AR301000) forms, the **Ignore Automatic Line Discounts** check box will be cleared after the upgrade.

Inventory and Order Management: Changes to Summary Area Totals

In previous versions of Acumatica ERP, the Summary area of multiple data entry forms included information that was irrelevant to the majority of Acumatica ERP users, such as the **VAT Exempt Total** and **VAT Taxable Total** boxes. In some cases, this area of the form did not include some key information that was needed by many users. For example, the **Discount Total** box displayed the total of document-level and group-level discounts but did not include line-level discounts. Users had to manually calculate the total amount of all discounts applied to a document.

In Acumatica ERP 2023 R2, the following forms have been modified to improve the user experience and provide better visibility of important data in the Summary area:

- Sales Orders (SO301000)
- Invoices (SO303000)
- Purchase Orders (PO301000)

For details on form changes in other functional areas of Acumatica ERP, see the following topics:

- Finance: Changes to Summary Area Totals
- CRM: Changes to Summary Area Totals
- Projects and Construction: Changes to Summary Area Totals

Changes to the Sales Orders Form

The following changes have been made to the Summary area of the *Sales Orders* (SO301000) form (see the screenshot below the table).

Element	Difference from the Previ- ous Version	Description
Approved check box	Removed	The check box has been removed due to being re- dundant.
Detail Total box (see Item 1 in the screenshot below)	Added	The total amount of all lines in the document before deductions, such as discounts—that is, the sum of the amounts in the Ext. Price column on the Details tab. The box does not appear for a transfer order.
Line Discounts box (Item 2)	Added	The sum of the amounts in the Discount Amount column in the lines on the Details tab. The box does not appear for a transfer order.

Element	Difference from the Previ- ous Version	Description					
Document Discounts box (Item 3)	Renamed	The sum of the amounts in the Discount Amt. col- umn in the lines with <i>Group</i> and <i>Document</i> in the Type column on the Discounts tab if the <i>Customer</i> <i>Discounts</i> feature is enabled on the <i>Enable/Disable</i> <i>Features</i> form.					
		If the <i>Customer Discounts</i> feature is disabled on the <i>Enable/Disable Features</i> form, a user can enter a doc- ument-level discount manually. This manual dis- count has no discount code or sequence and is not recalculated by the system. If the manual discount needs to be changed, the user has to correct it man- ually.					
		This box was previously named Discount Total .					
		The box does not appear for a blanket sales order or transfer order.					
Freight Total box (Item 4)	Added	The sum of the amounts in the Freight Price and Premium Freight Price boxes on the Totals tab.					
		This box does not appear for a blanket sales order or transfer order.					
Description box (Item 5)	Changed	A brief description of the document.					
		This box now has two lines.					

Sales Orders	FourSt	ar Cof	foo 8	Sweet	e Sh	on									
	-oursia				ווכ פ זו	op Z	>	ы							
	- /			• س		`		~							
* Order Type:	SO	Q		Custome	r:	COFF	EESHOF	- Fou	rStar Co	ffee & Swee	0	Orde	red Qty.:	18.00	
Order Nbr.:	000071	Q		Location		MAIN	- Primary	Locat	ion		0	Detai	l Total:	117.48	1
Status:	Complet	ed		Contact:		Andre	a A. Wea	ver			0	Line	Discounts:	0.00	2
Date:	1/20/202	24		Project:		X - No	n-Projec	t Code			0	Docu	ment Dis	0.00	3
Requested On:	1/20/202	24		Descripti	on:	Sale o	of raspber	ry and	strawbe	rry jam		Freig	ht Total:	0.00	4
Customer Ord										,		Tax T	otal:	10.43	
External Refer												Orde	r Total:	127.91	
DETAILS TA	XES	FINAN	CIAL	SHIPF	PING	ADDF	RESSES	SI	HIPMEN	TS PA	YMENT	ſS	RELATIONS	TOTALS	
FREIGHT INFO _								ORD	ER TOTA	ALS					
Order Weight:						0.0000	00	Goo	ods:					117.4	48
Order Volume:						0.0000	00	Mis	c. Charg	es:				0.0	00
Package Weight	t					0.0000	00	Line	Discou	nts:				0.0	00
Freight Cost:						0.	00	Doc	ument D	iscounts:				0.0	00
					COST			Tax	Total:					10.4	13
		V Freig	ght Co	st Is up-to-	date			Est	Margin	(%):				12.2	26
		Ove	rride F	reight Pric	е			Est	Margin	Amount:				14.4	10
Invoice Freight F	Price B	Shipm	ent					SHIP	MENT A		E INFO)			
Freight Price:						0.	00	Uns	hipped (Quantity:				0.0	00
Premium Freigh	t Price:					0.	00	Uns	hipped A	Amount:				0.0	00
Freight Tax Cate	egory:							Unb	illed Qu	antity:				0.0	00
								Unb	illed Bal	ance:				0.0	00
								Tota	al Paid:					0.0	00
								Unp	aid Bala	nce:				0.0	00

Figure: The Summary area of the Sales Orders form

The following changes have been made to the **Totals** tab of the *Sales Orders* form (see the screenshot below the table).

Element	Difference from the Previ- ous Version	Description
VAT Totals section (see Item 1 in the screenshot below)	Added	 A section with VAT totals. The following elements have been renamed and moved from the Summary area to this new section: VAT Exempt. The box previously had the VAT Exempt Total name. VAT Taxable. The box previously had the VAT Taxable Total name.
Line Total box	Removed	See the description of the Goods box.

Element	Difference from the Previ- ous Version	Description
Goods box (Item 2)	Added	The total amount of the lines with stock items or with non-stock items that have the Require Ship- ment check box selected on the <i>Non-Stock Items</i> (IN202000) form before any deductions, such as dis- counts—that is, the sum of the amounts in the Ext. Price column of the Details tab of the <i>Sales Orders</i> form. These are the lines that have <i>Goods for Inven- tory</i> or <i>Non-Inventory Goods</i> specified in the Line Type column (which is hidden by default). The Goods box has been added to the Order Totals section instead of the Line Total box. This box appears only if the <i>Inventory</i> feature is en- abled on the <i>Enable/Disable Features</i> form. The box does not appear for a transfer order.
Misc. Total box	Removed	See the description of the Misc. Charges box.
Misc. Charges box (Item 3)	Added	The total amount of the lines with non-stock items that have the Require Shipment check box cleared on the <i>Non-Stock Items</i> form before any deductions, such as discounts—that is, the sum of the amounts in the Ext. Price column of the Details tab of the <i>Sales Orders</i> form. These are the lines that have <i>Misc. Charge</i> specified in the Line Type column. The Misc. Charges box has been added to the Order Totals section; it replaces the Misc. Total box. This box appears only if the <i>Inventory</i> feature is en- abled on the <i>Enable/Disable Features</i> form. The box does not appear for a transfer order.
Line Discounts box (Item 4)	Added	The sum of the amounts in the Discount Amount column in the lines on the Details tab. The box has been added to the Order Totals sec- tion.
		This box does not appear for a transfer order.

Element	Difference from the Previ- ous Version	Description
Document Discounts box (Item 5)	Added	The sum of the amounts in the Discount Amt. col- umn in the lines with <i>Group</i> and <i>Document</i> in the Type column on the Discounts tab if the <i>Customer</i> <i>Discounts</i> feature is enabled on the <i>Enable/Disable</i> <i>Features</i> form.
		If the <i>Customer Discounts</i> feature is disabled on the <i>Enable/Disable Features</i> form, this box shows the discount that a user has manually entered in the Document Discounts box in the Summary area of the form.
		The box has been added to the Order Totals sec- tion.
		The box does not appear for a blanket sales order or transfer order.
Shipment and Invoice Info section (Item 8)	Renamed	The totals related to shipments and invoices gener- ated for the sales order.
		This section was previously called Calculated Amounts and Quantities .

Sales Orders SO 000071 - F	FourSta	ar Cof	fee 8	& Sweets	s Sho	op							
← 🖏 🗒	\$	+	11	Ĉ v	K	<	>	×					
* Order Type:	SO	Q		Customer		COFFEESHOP - FourStar Coffee & Swe				& Swee	Ø	Ordered Qty .:	18.00
Order Nbr.:	000071	Q		Location:		MAIN -	Primary	Locati	on		Ø	Detail Total:	117.48
Status:	Complet	ed		Contact:		Andrea	A. Weav	/er			Ø	Line Discounts:	0.00
Date:	1/20/202	4		Project:		X - No	n-Project	Code.			Ø	Document Dis	0.00
Requested On:	1/20/202	.4		Descriptio	n:	Sale of	fraspberi	ry and	strawberry	jam		Freight Total:	0.00
Customer Ord												Tax Total:	10.43
External Refer												Order Total:	127.91
DETAILS TA	XES	FINAN	CIAL	SHIPP	NG	ADDR	ESSES	SH		PAY	'MEN'	TS RELATIONS	TOTALS
Order Weight:						0.00000		Goo	de:)			117.40
Order Volume:						0.00000	0	Misc	Charges:				0.00
Package Weight	ŀ					0.00000	0	Line	Discounts:				0.00
Freight Cost						0.00000	0	Doc	ument Disc	ounts:			0.00
r toigint o oot.						0.0		Tax	Total:	ounto.			10.43
		Freid	aht Co	st Is up-to-o	late			Est	Margin (%)):			12 26 6
		Over	ride F	reight Price				Est.	Margin Am	ount:			14.40
Invoice Freight F	Price B	Shipm	ent	5				SHIP	MENT AND	INVOICE	E INF(0	
Freight Price:						0.0	00	Uns	hipped Qua	ntity:			0.00
Premium Freigh	t Price:					0.0	00	Uns	hipped Amo	ount:			0.00
Freight Tax Cate	egory:							Unb	illed Quanti	ity:			0.00
VAT TOTALS								Unb	illed Baland	e:			0.00
VAT Exempt:						0.0	0 1	Tota	I Paid:				0.00
VAT Taxable:						0.0	00	Unp	aid Balance	e:			0.00

Figure: The Totals tab of the Sales Orders form

Changes to the Invoices Form

The following changes have been made to the Summary area of the *Invoices* (SO303000) form (see the screenshot below the table).

Element	Difference from the Previ- ous Version	Description
Detail Total box (see Item 1 in the screenshot below)	Changed	The total amount of all lines in the document before deductions, such as discounts—that is, the sum of the amounts in the Ext. Price column on the Details tab. In the previous versions of Acumatica ERP, this amount did not include discounts.
Line Discounts box (Item 2)	Added	The sum of the amounts in the Discount Amount column in the lines on the Details tab.

Element	Difference from the Previ- ous Version	Description
Document Discounts box (Item 3)	Renamed	The sum of the amounts in the Discount Amt. col- umn in the lines with <i>Group</i> and <i>Document</i> in the Type column on the Discounts tab if the <i>Customer</i> <i>Discounts</i> feature is enabled on the <i>Enable/Disable</i> <i>Features</i> (CS100000) form.
		If the <i>Customer Discounts</i> feature is disabled on the <i>Enable/Disable Features</i> form, a user can enter a doc- ument-level discount manually. This manual dis- count has no discount code or sequence and is not recalculated by the system. If the manual discount needs to be changed, the user has to correct it man- ually.
		This box was previously named Discount Total .
		The box does not appear for a blanket sales order or transfer order.
Freight Total box (Item 4)	Added	The sum of the amounts in the Freight Price and Premium Freight Price boxes on the Freight tab.
Balance box (Item 5)	Moved	The balance of the document. The box is now shown after the Amount box.

Invoices Invoice 00011	5 - FourS	star Coffee	& Swe	ets Sho	р						
← ¶ □	5	+ 🔟	Ô v	K (< >	> ···					
Туре:	Invoice	~ C	ustomer:	со	FFEESHOP	0	Detail Total:	117.48	1		
Reference Nbr.:	000115	۶ Lo	cation:	MA	IN - Primary	Location			Line Disco	0.00	2
Status:	Open	Te	rms:	300) - 30 Days				Document Dis	0.00	3
Date:	1/20/2024	* D	ue Date:	2/1	9/2024 📋				Freight Total:	0.00	4
Post Period:	01-2024	* C	ash Disco	unt 2/1	9/2024 📋				Tax Total:	10.43	
Customer Ord	Customer Ord									127.91	
Project/Contract:	X - Non-Pro	ject Code.						0	Balance:	127.91	5
Description:	Sale of rasp	berry and stra	wberry jar	n					Cash Discount:	0.00	
DETAILS TA	DETAILS TAXES FREIGHT FINANCIAL ADDRESSES APPLICATIONS ◇ + // × ADD ORDER ADD SO LINE ADD RETURN LINE RESET ORDER ++ IX										
🖹 🖟 🗋 *Branch	1	Shipment Nbr.		Order Type	Order Nbr.	Inventory ID		Transaction Descr.			
> 🛛 🗋 HEADO	FFICE	000066		SO	000071		RASPJAM32	2	Raspberry jam 32 oz	z	
0 🗋 HEADO	FFICE	000066		SO	<u>000071</u>		STRAWJAM	<u>32</u>	Strawberry jam 32 o	z	

Figure: The Summary area of the Invoices form

The following changes have been made to the **Financial** tab of the *Invoices* form (see the screenshot below the table).

Element	Difference from the Previ- ous Version	Description
VAT Exempt box (see Item 1 in the screenshot below)	Moved	The document total that is exempt from VAT. The box has been renamed from VAT Exempt Total to VAT Exempt and moved from the Summary area to the new VAT Totals section.
VAT Taxable box (Item 2)	Moved	The document total that is subject to VAT. The box has been renamed from VAT Taxable Total to VAT Taxable and moved from the Summary area to the new VAT Totals section.

Invoices	E For	rCtor	Coffee	0 0.00	oto	Chan								
	ත - Fol	+	Î	æswe ₿ ∽	IK	Shop <	>	Я						
Туре:	Invoice	~	Cı	ustomer:		COFFEE	SHOP	- Fou	Star Coffee & S	wee 2	1	Detail Total:	117.4	18
Reference Nbr.:	000115	Q	Lo	cation:		MAIN - Pi	rimary	Locat	on			Line Discounts:	0.0	00
Status:	Open		Te	rms:		30D - 30	Days					Document Dis	0.0	0
Date:	1/20/202	24	* Du	ue Date:		2/19/2024	Ē)				Freight Total:	0.0	00
Post Period:	01-2024		* Ca	ash Disco	ount	2/19/2024	Ē)				Tax Total:	10.4	13
Customer Ord												Amount:	127.9)1
Project/Contract:	oject/Contract: X - Non-Project Code.						6	1	Balance:	127.9)1			
Description:	Description: Sale of raspberry and strawberry jam Cash Discount: 0.00							0						
DETAILS TA	AXES	FREIG	HT FI	INANCIA	AL.	ADDRESS	SES	AP	PLICATIONS					
LINK TO GL								PAYN	IENT INFORMA	TION -				
Batch Nbr.:		AR000)185					Pay	ment Method:		СН	ECK - Check Paymer	nt	Q
Branch:		HEAD	OFFICE -	SweetLi	fe Hea	ad Office ar		Car	d/Account Nbr.:					
AR Account:		11000	- Account	s Receiv	able			Cas	h Account:		102	200WH - Wholesale C	hecking	Q
Original Docum	ent:							TAX I	NFO					
OWNERSHIP												isable Automatic Tax	Calculation	
Workgroup ID:								Cus	tomer Tax Zone	E .	NY	STATE - NY State Tax	¢	
Owner:								VAT T	OTALS					
PRINT AND EMA	IL OPTIO	NS						VAT	Taxable:					0.00
Don't Print		P	rinted					VAT	Exempt:					0.00 2
🗸 Don't Email		E	mailed											

Figure: The Financial tab of the Invoices form

The following change has been made to the right side of the **Applications** tab of the *Invoices* form (see the screenshot below the table).

Element	Difference from the Previ- ous Version	Description
Write-Off Total box	Added	The total amount of all payments that have been applied to the invoice. This box has been moved from the Summary area.

Invoices	6 - Four	Star (Coffe	ee &	Swee	ets s	Shop									ACTIVITIE	S FIL	ES CUSTOMIZATION	TOOLS -
6 2 🗏	5	+		0	*	ĸ	<	>	Я	RE	LEASE	H	IOLD						
Type Reference Nbr.	Invoice 000116	• 0	,	Custo Locat	omer: tion		COFFE	ESHO Primar	P - Fou y Loca	urStar (Coffee & S	Swee ,0	0	Detail Total Line Discounts	121 10 0.00				^
Status * Date:	Balanced 8/23/2023	0		• Term: • Due I	s Date:		30D - 3 9/22/20	0 Days	5			Q		Document Dis Freight Total	0.00				
Post Period Customer Ord	08-2023	Q		• Cash	Discou	nt	9/22/20	23 [Tax Total: Balance	10.75				
Project/Contract Description DETAILS T/	X - Non-Pr	REIGH	ode.	FINA	ANCIAL		ADDRE	SSES	A	PPLICA	ATIONS	ų	0						
0 + X	LOAD	DOCU	MENT	rs	AUTO	APPL	Y		PAYM	ENT.	I APTI	UDE		DIA CARA PARMENT			2	Not Released	131.85
	oc. Type		Re	eferenc	e Nbr.		An	nount P	ald	Di	Cash scount Taken		Write	Off Payment unt Date	Balance De	scription		Authorized Released	0.00
> 0 D 🗹 Pa	iyment		00	0076				131.	85	0	0.0000		0	00 8/23/2023	0.00			Write-Off Total:	0.00
																		Unpaid Balance:	0.00

Figure: The Applications tab of the Invoices form

Changes to the Purchase Orders form

The following changes have been made to the Summary area of the *Purchase Orders* (PO301000) form (see the screenshot below the table).

Element	Difference from the Previ- ous Version	Description
Approved check box	Removed	The check box has been removed due to being re- dundant.
Line Total box	Removed	See the description of the Detail Total box.
Detail Total box (see Item 1 in the screenshot below)	Added	The total amount of all lines in the document before deductions, such as discounts and retainage—that is, the sum of the amounts in the Ext. Cost column on the Details tab. This box replaces the Line Total box, which was pre- viously located in this area.
Line Discounts box (Item 2)	Added	The sum of the discounts in the Discount Amount column in the lines on the Details tab.

Element	Difference from the Previ- ous Version	Description
Document Discounts box (Item 3)	Renamed	The sum of the amounts in the Discount Amt. col- umn in the lines with <i>Document</i> in the Type column on the Discounts tab if the <i>Vendor Discounts</i> feature is enabled on the <i>Enable/Disable Features</i> form.
		If the Vendor Discounts feature is not enabled on the Enable/Disable Features form, a user can enter a doc- ument-level discount manually. This manual dis- count has no discount code or sequence and is not recalculated by the system. If the manual discount needs to be changed, the user has to correct it man- ually. This box was previously named Discount Total .
Retainage Total box	Moved	The total retainage amount for all lines added to the
(Item 4)		current purchase order, including retained taxes. This box is now shown under the Order Total box.

Purchase Orders Normal - Compu	link and Co						
	က + (Î () v K	< > >I RE	MOVE HOLD			
Type: No	rmal 🗸	* Vendor:	COMPULINK - Compulink a	and Co	Ø Detail Total	al: 229.00	0 1
Order Nbr.: </td <td>IEW> 🔎</td> <td>* Location:</td> <td>MAIN - Primary Location</td> <td>Q</td> <td>Line Disco</td> <td>ounts: 0.00</td> <td>2</td>	IEW> 🔎	* Location:	MAIN - Primary Location	Q	Line Disco	ounts: 0.00	2
Status: On	Hold	Owner:	Kimberly Gibbs	Q	Document	t Dis 20.00) 3
* Date: 8/2	3/2023 📋	Vendor Ref.:			Tax Total:	0.00)
Promised On: 8/2	3/2023 📋				Order Tota	al: 209.00)
Description:					Retainage	e Total: 0.00	
DETAILS TAXES	S SHIPPING	G VENDOR INFO	PO HISTORY PRI	EPAYMENTS		COMPLIANCE	
* Branch:	HEADOE	FICE - SweetLife Hea	d Office and Wholesale (O	Goods			229.00
Requisition Ref. Nbr		THE SWEELER HEA		Service	IS:		0.00
' Originating PO Nbr.:				Line Di	scounts:		0.00
Workgroup ID:			م	Docum	ent Discounts:		20.00
	Do Not	Print 🗌 F	Printed	BILLING	INFO	*****	
	Do Not	Email E	Emailed	Unbille	d Quantity:		100.00
	Allow A	P Bill Before Receipt		Unbille	d Amount:		209.00
RETAINAGE SETTIN	GS			Unbille	d Prepayment T		0.00
	Apply R	Retainage		Unpaid	Amount:		209.00
Retainage Percent:	0.00	00000					
VAT TOTALS							
VAT Exempt:			0.00				
VAT Taxable:			0.00				

Figure: The Summary area of the Purchase Orders form

The following changes have been made to the **Other** tab of the *Purchase Orders* form (see the screenshot below the table.

Element	Difference from the Previ- ous Version	Description
Order Info section (see	Added	A section with miscellaneous order information.
Item 1 in the screenshot below)		The following elements, which already existed on this tab, have been moved to this new section:
		• Branch box
		Requisition Ref. Nbr. box
		Normal PO Nbr. box
		Originating PO Nbr. box
		Workgroup ID box
		Do Not Print check box
		Printed check box
		Do Not Email check box
		Emailed check box
		Allow AP Bill Before Receipt check box
Retainage Settings sec-	Added	A section with the retainage settings.
tion (Item 2)		The following elements, which already existed on this tab, have been moved to this new section:
		Apply Retainage check box
		Retainage Percent box
VAT Totals section (Item	Added	A section with VAT totals.
3)		The following elements have been renamed and moved from the Summary area to this new section:
		• VAT Exempt. The box previously had the VAT Exempt Total name.
		• VAT Taxable. The box previously had the VAT Taxable Total name.
Order Totals section (Item 4)	Added	A section with the total amounts of lines and dis- count totals.
		The following new elements (which are described in their own rows below) have been added to this new section:
		• Goods
		• Services
		Line Discounts
		Document Discounts

Element	Difference from the Previ- ous Version	Description
Goods box	Added	The total amount of the lines with stock items and with non-stock items that have the Require Re- ceipt check box selected on the <i>Non-Stock Items</i> (IN202000) form before any deductions, such as discounts and retainage—that is, the sum of the amounts in the Ext. Cost column of the Details tab of the <i>Purchase Orders</i> form. These are the lines that have a type other than <i>Service</i> , <i>Freight</i> , and <i>Descrip-</i> <i>tion</i> in the Line Type column. The box appears only if the <i>Inventory</i> feature is en- abled on the <i>Enable/Disable Features</i> form.
Services box	Added	The total amount of the lines of the lines with non- stock items that have the Require Receipt check box cleared on the <i>Non-Stock Items</i> form before any deductions, such as discounts and retainage— that is, the sum of the amounts in the Ext. Cost col- umn of the Details tab of the <i>Purchase Orders</i> form. These are the lines that have <i>Service</i> specified in the Line Type column. This box appears only if the <i>Inventory</i> feature is en- abled on the <i>Enable/Disable Features</i> form. If the <i>In-</i> <i>ventory</i> feature is disabled, this value is shown in the Detail Total box in the Summary area.
Line Discounts box	Added	The sum of the amounts in the Discount Amount column in lines on the Details tab.
Document Discounts box	Added	The sum of the amounts in the Discount Amt. col- umn in the lines with <i>Document</i> in the Type column on the Discounts tab if the <i>Vendor Discounts</i> feature is enabled on the <i>Enable/Disable Features</i> form. If the <i>Vendor Discounts</i> feature is not enabled on the <i>Enable/Disable Features</i> form, this box shows the discount that a user has manually entered in the Document Discounts box in the Summary area of the form.
Billing Info section (Item 5)	Added	 A section with the billing information of the order. The following elements, which already existed on this tab, have been moved to this new section: Unbilled Quantity box Unbilled Amount box Unbilled Prepayment Total box Unpaid Amount box

Purchase Orders Normal - Con	npulink and	Co							
	∽ +	Ô V K	< > >I R	EMOV	'e hold)	•••		
Туре:	Normal ~	* Vendor:	COMPULINK - Compulink	and Co	o, o	Ø	Detail Total:	229.00	
Order Nbr.:	<new></new>	* Location:	MAIN - Primary Location		Q		Line Discounts:	0.00	
Status:	On Hold	Owner:	Kimberly Gibbs		Q		Document Dis	20.00	
* Date:	8/23/2023 E	Vendor Ref.:					Tax Total:	0.00	
Promised On:	8/23/2023 E	3					Order Total:	209.00	
Description:							Retainage Total:	0.00	
DETAILO				500/4	(ENTO	~		105	
DETAILS 17	AXES SHIP	PING VENDOR INFO	PO HISTORY PR		IENTS		THER COMPLIAN	ICE	
ORDER INFO					ORDER	тота	LS		
* Branch:	HEA	DOFFICE - SweetLife Hea	ad Office and Wholesale (,		Goods:				229.00
Requisition Ref	. Nbr.:				Service	es:			0.00 🕢
Originating PO	Nbr.:				Line Di	scour	nts:		0.00
Workgroup ID:			Q	0	Docum	ient D	liscounts:		20.00
	🔽 Do	Not Print	Printed		BILLING	INFO)		
	🔽 Do	Not Email	Emailed		Unbille	d Qua	antity:		100.00
	All	ow AP Bill Before Receipt			Unbille	d Am	ount:		209.00 5
RETAINAGE SET	ITINGS				Unbille	d Pre	payment T		0.00
	🗸 Ар	ply Retainage		2	Unpaid	l Amo	unt:		209.00
Retainage Perc	ent:	0.00000							
VAT TOTALS									
VAT Exempt:			0.00	3					
VAT Taxable:			0.00						

Figure: The Other tab on the Purchase Orders form

Changes to the Mobile App Screens

The following changes (shown in the screenshots below) have been made to the inventory and order management screens in the Acumatica mobile app:

- On the Sales Orders screen, the following changes have been made:
 - The Line Discounts box (see Item 1 in the screenshots below) has been added.
 - The Document Discounts box (Item 2) is now shown instead of the Discount Total box.
 - The Freight Total box (Item 3) has been added.
- On the Purchase Orders screen, the following changes have been made:
 - The Detail Total box (Item 4) is now shown instead of the Line Total box.
 - The Line Discounts box (Item 5) has been added.
 - The Document Discounts box (Item 6) is now shown instead of the Discount Total box.
 - The VAT Exempt Total and VAT Taxable Total boxes have been moved to the Other tab and renamed to VAT Exempt and VAT Taxable, respectively (Item 7).

× Sales Order 🛛 🔍 🖌 🗄	× Purchase Order 🗸 🗧	× Purchase Order :
Order Nbr.: <new> Order Total: 0.00 Status: Open Line Discounts: 0.00 Ordered 0y. 0.00 Decument Discounts: 0.00</new>	Purchase of apples	Draef Tourn 656.94
Est, Margin (%): 0.00 Freight Total: 0.00 9 Est, Margin Amount: 0.00 Tax Total: 0.00	All Fruits Mall	DETAILS
SUMMARY DETAILS SETTINGS	Constion 4	TAXES
Deden Type *	Primary Location •	SHIPPING
so -	Kimberly Gibbs	VENDOR INFO
Aug 23, 2023 * Aug 23, 2023 *	Vendler Ref	OTHER
Dustanur -	ThermitTown	Swee(Life Head Office and Wholesale Genter
COFFEESHOP - FourStar Coffee & Q	0.00	Paggestican.two 3480
MAIN - Primary Location +	Lun Discund	Workgroup 10
Common	Document Discourts	VATEV-mill
	200.00	000
Sale of apples	0,00	WAT Facestar
Notes	Order Texal -200-00	COMPLIANCE
SHIPPING	DETAILS	
III 0 <	III O <	III 🗆 <

Figure: Changes to the mobile app interface

Changes to the Self-Service Portal

In the Self-Service Portal, the **Discount Total** box has been renamed to **Document Discounts** (see the following screenshot) on the *Checkout (SP700002)* form.

Checkout			
SHIP TO INFO	BACK TO CART RETORN TO SHIPPING D		N
* Location:	MAIN - Primary Location Q	Line Total:	500.00
		Freight Price:	0.00
Account Name:	ABC Studios Inc	Tax Total:	0.00
Attention:	Receiving	Document Discounts:	0.00
Phone 1:	+1 (777) 446-7537	Order Total:	500.00 USD
Email:	info@abcstudios.con	Ship Via:	م
Address Line 1:	77 W 66th St # 13	* Delivery Date:	8/23/2023
Address Line 2:			Residential Delivery
City:	New York		Use Customer's Account
Country:	US - United States of America	Ship Complete:	Available & Back Order ~
State:	NY - NEW YORK		
Postal Code:	10023		
			10

Figure: The Checkout form

Upgrade Notes

During an upgrade to Acumatica ERP 2023 R2, for all documents created on the *Invoices* (SO303000) form in previous versions of Acumatica ERP, the system will recalculate the values in the **Detail Total** box in the Summary area.

Inventory and Order Management: Estimation of the Warehouse Workers' Productivity

The ability to calculate and estimate the productivity metrics of warehouse workers is one of the crucial points in building a seamless fulfillment process and swift deliveries. In Acumatica ERP 2023 R2, a new *Efficiency of Picking and Packing (SO402020)* inquiry form has been introduced. The form provides picking and packing statistics that can help warehouse managers build a well-coordinated process of picking and packing.

The Efficiency of Picking and Packing Inquiry

The new *Efficiency of Picking and Packing (SO402020)* inquiry form (see the following screenshot) shows the following information for all warehouses or a selected warehouse:

- The number of processed shipments, lines, and packages
- The total quantity of picked or packed items
- The number of useful operations
- The overall efficiency in Pick and Pack modes or in Pack-only mode of shipment processing on the *Pick, Pack, and Ship* (SO302020) form

The inquiry form tracks both paper-based and paperless picking and packing.

1	Efficiency of Picking and Packing														
	\circlearrowright $ \neg $ \mathbb{X}														
	Warehous Start Date	se:	8/24/2023) Expand by ser:	User			Expa	and by Shipm nt Nbr.:	ient			
	End Date:	:	Expand	E by Day											
	Total Time	Operat Type	ion	Warehouse	Number of Lines	Number of Package	Number of Unique Items	Number of Unique Locatior	Total Qty.	Number of Useful Operatic	Actual Time	Efficiency (Operations per Min.)	Number of Shipmer		
>	0:06:05	Pack		WHOLESALE	5	6	4	4	60.00	28	0:01:58	14.24	3		
	0:06:26	Pick		WHOLESALE	5	6	4	4	60.00	21	0:05:19	3.95	3		

Figure: The Efficiency of Picking and Packing inquiry form

To review the picking and packing statistics, the warehouse manager needs to specify at least the first date of the period for which the statistics are required in the **Start Date** box in the Selection area. By default, the inquiry shows combined information on picking and packing operations in separate lines. The warehouse manager can extend the inquiry by selecting the following check boxes in the Selection area of the form:

- **Expand by User**: If this check box is selected, the table displays a separate row for each user within the specified period. When this check box is selected, the warehouse manager can also narrow the inquiry results to a single user by specifying a username in the **User** box.
- **Expand by Shipment**: If this check box is selected, the table shows a separate row for each shipment within the specified period. When this check box is selected, the warehouse manager can also narrow the inquiry results to a single shipment by specifying a shipment number in the **Shipment Nbr.** box.
- **Expand by Day**: With this check box selected, the table shows a separate row for each day within the specified period.

The following screenshot shows the inquiry form with the extended information; in this example, all three check boxes are selected.

	⊘ ⊶	X													
	Warehouse:			Q	Expand b	y User		Expand	by Shipmen	t					
	Start Date:	8/24/2	023 📋	U	ser:		Q	Shipment I	Nbr.:			Q			
	End Date:		Ö												
		 Expansion 	and by Day												
60	Day	Total Time	Operation Type	User		Warehouse	Shipment Nbr.	Number of Lines	Number of Package	Number of Unique Items	Number of Unique Locatior	Total Qty.	Number of Useful Operatic	Actual Time	Efficiency (Operations per Min.)
>	8/24/2023	0:00:12	Pack	gibbs		WHOLESALE	000065	1	1	1	1	15.00	6	0:00:11	32.05
	8/24/2023	0:00:55	Pack	gibbs		WHOLESALE	000063	2	2	2	2	15.00	10	0:00:34	17.85
	8/24/2023	0:01:25	Pack	gibbs		WHOLESALE	000064	2	3	2	2	30.00	12	0:01:13	9.85
	8/24/2023	0:00:33	Pick	gibbs		WHOLESALE	000065	1	1	1	1	15.00	5	0:00:32	9.36
	8/24/2023	0:01:55	Pick	gibbs		WHOLESALE	000063	2	2	2	2	15.00	8	0:01:54	4.20
	8/24/2023	0:02:54	Pick	gibbs		WHOLESALE	000064	2	3	2	2	30.00	8	0:02:53	2.78

Efficiency of Picking and Packing

Figure: The inquiry form with the extended information

Limitations

For wave and batch pick lists, the inquiry does not show the picking time. Only packing time is shown.

Inventory and Order Management: Improvements in the Inventory Adjustments

In previous versions of Acumatica ERP, no warnings or errors occurred on the *Adjustments* (IN303000) form when a user released an inventory adjustment with a negative quantity of a stock item for which the following was true:

- The item was allocated in a sales order, service order, or production order on the *Sales Orders* (SO301000), *Service Orders* (FS300100), or *Production Order Details* (AM209000) form, and the release of the adjustment could make the item quantity that was available for issue less than the allocated quantity.
- The item was added to an unreleased kit assembly document on the **Stock Components** tab of the *Kit Assembly* (IN307000) form, and the release of the adjustment could make the item quantity that was available for issue less than the quantity that was required to assemble the kit.

When the user started processing such an order or kit assembly, the system showed an error message, and the document could not be processed further.

In Acumatica ERP 2023 R2, additional validation of stock item allocation has been implemented on the *Adjustments* form for inventory adjustments. The validation is performed on the release of an adjustment with a negative quantity of a stock item. Also, a new report has been added in which the user can review the list of allocations that can be affected by negative adjustments to stock item quantities.

Validation of Allocated Stock Items

Starting in Acumatica ERP 2023 R2, when the user releases an adjustment (including physical inventory adjustments) with a negative quantity of a stock item, the system checks whether this item has allocations in sales orders, service orders, or production orders, as well as whether the item is added as a stock component to kit assemblies. If the stock item has an allocation in any of these documents and the quantity of this item that is available for issue will become insufficient if the adjustment is released, the system prohibits releasing the adjustment and displays an error message with a recommendation to check the documents that the adjustment would have affected.

If a user still wants to release the adjustment despite the error message, they can select the new **Ignore Item Allocations** check box (shown in the following screenshot) on the **Financial** tab of the *Adjustments* (IN303000) form. When this check box is selected, the system does not prevent the adjustment from being released. By default, the **Ignore Item Allocations** check box is cleared for all adjustments generated from a physical inventory count or created directly on the *Adjustments* form. For adjustments that are generated from manufacturing documents, the **Ignore Item Allocations** check box is selected by default.

Adjustments O00002 - An adjustment for 5 lbs of apples													
← 🖞 🗎	5	+ 🔟	Ĉ •	K	<	>	> RELEASE ····						
Reference Nbr.:	000002	Q	External R	ef.:				Total Qty.:		0.00			
Status:	Balanced							Total Cost:		0.00			
* Date:	6/22/2023	~	Description	n:			An adjustment for 5 lbs of apples						
* Post Period:	06-2023	Q											
DETAILS FI	NANCIAL	MANU	ACTURING										
Batch Nbr.:													
* Branch:	HEADOF	FICE - Sw	eetLife Head	Offic∉ ,⊅									
	Ignore If	tem Alloca	tions										

Figure: The Ignore Item Allocations check box

Tracking of the Affected Allocations

To improve the visibility of item allocations that can be affected by adjustments with negative item quantities, the new *Allocations Affected by Inventory Adjustments (IN622000)* report has been introduced. In the out-of-the-box system, a user can open the corresponding report form from the **Reports** category of the **Inventory** workspace.

On the report form, the user must specify the reference number of an adjustment. Once the adjustment is selected and the user clicks **Run Report** on the report form toolbar, the system generates a report (shown in the following screenshot) that shows sales orders, service orders, production orders, and kit assembly documents that can be affected by the release of the adjustment.

Allocations Affected by Inventory Adjustments												
Company/Branch:	HEADOFFICE								Date:	6/22/2023	1:31 PM	
User:	Kimberly Gibbs			Adjustment Ref. Nbr.:	000002				Page:		1 of 1	
Inventory ID	Description		Warehouse								UOM	
APPLES	Fresh apples 1 lb		WHOLESALE					Total Qty. to Deallocate:		16.00	LB	
Туре	Document Nbr.	Status	Sales Owner	Customer ID	Date	Requested on	Line Nbr.		A	llocated Qty.		
Sales Order	SO, 000075	Open	Kimberly Gibbs	COFFEESHOP	6/22/2023	6/22/2023	1			20.00	LB	
								Allocated Qty. Total:		20.00	LB	

Figure: The Allocations Affected by Inventory Adjustments report

Inventory and Order Management: Improvements in Allocation Management

In previous versions of Acumatica ERP, the management of stock item allocations in sales order was limited to the following capabilities:

- Manual allocation that a user performs in the Line Details dialog box of the Sales Orders (SO301000) form
- Automatic allocation for sales orders whose order type requires allocation
- Allocation for line items that are marked for purchase

These capabilities for item allocation were not flexible enough to meet the demands of companies that needed accurate and on-time allocation management.

In Acumatica ERP 2023 R2, a new approach to the allocation of stock items in sales order lines has been introduced.

The new capabilities are not applicable to lines of production and service orders.

New Approach to Allocation Management

The existing ways of stock item allocation have been supplemented by the ability to mass-allocate items on a new *Manage Sales Allocations (SO501010)* mass-processing form (shown in the following screenshot).

N	lan	age	es	ales Al	location	is	2.215						CUSTOM	ZATION
C	Ċ	5		PROCE	SS PR	OCESSALL 🕑 🗸								
	Act	on:			Alloca	ate Sales Orders ~	Order Type:			ý.	Custome	er Class		,
	Wa	reho	use		WHO	LESALE - Wholesale Wi ,0	Order Status:			×	Custom	er.		Q
1	Sel	ect B	3y		Line 5	Ship On 🚽	Order Phonity							
	Sta	rt Da	ste			~	Order Nbr.			p				
	End	Dat	te		5/12/2	2023 ~	Inventory ID:			P	LIST			
8	0	D	Π	Örder Priority	Order Type	Order Nbr.	Order Status	Customer	Inventory ID		Description	Available for Shipping	Qty. Unallocated	Qty. to Allocate
>	0			Q	so	000071	Open	COFFEESHO	APJAM96		Apple jam 96 oz	83.00	15.00	15.00
	0	D	0	0	so	000071	Open	COFFEESHO	LEMJAM96		Lemon jam 96 oz	19.00	7.00	7.00
	0	D		0	SO	000072	Open	BISCCITY	APPLES		Fresh apples 1 lb	54.00	20.00	20.00
	0	D	0	0	SO	000072	Open	BISCCITY	BANANAS		Bananas 1 lb	40.00	34.00	34.00
	0	D		0	SO	000072	Open	BISCCITY	COCONUTS		Coconuts 1 lb	15.00	10.00	10.00

Figure: The Manage Sales Allocations mass-processing form

In the out-of-the-box system, the *Manage Sales Allocations* form can be found in the **Processes** category of the **Sales Orders** workspace.

The new mass-processing form has two options in the Action box in the Selection area:

• Allocate Sales Orders: When this action is selected and a warehouse is specified in the **Warehouse** box in the Selection area, the table shows the sales order lines for which item allocation is required from this warehouse if the available-for-shipping quantity of the item is greater than zero.

The user can review the quantity that is available for shipping, the unallocated quantity, and the quantity to allocate for each line on the form. These quantities are shown in the base UOM only.

There can be multiple lines with the same item in the table. By default, the system sorts sales order lines by the **Priority** specified for the sales order, ordering the lines from the highest to the lowest. For lines with the same priority, the system sorts the lines by the applicable date of the sales order (oldest to newest). The priority of the lines is defined by the priority of the sales order specified in the **Priority** box on the **Shipping** tab of the *Sales Orders* (SO301000) form. The date the system uses is based on the option selected in the **Select By** box.

The user can change the value in the **Qty. to Allocate** column manually. If some spare quantity of the item appears due to the change, this quantity will not be automatically distributed among the lines with the same item that have insufficient quantity to allocate; the user needs to distribute the spare quantity manually. When the user changes the quantity to allocate in a line, the unlabeled check box in this line is automatically selected. If the user clears the unlabeled check box in this line, the system will automatically recalculate the quantity to allocate.

When the user clicks **Process** or **Process All** on the form toolbar with the *Allocate Sales Orders* option selected in the **Action** box, for all processed lines of sales orders, the system selects the **Allocated** check box in the **Line Details** dialog box on the *Sales Orders* form. The stock items in these lines are assigned the *SO Allocated* plan type.

• *Deallocate Sales Orders*: When this action is selected and a warehouse is specified in the **Warehouse** box in the Selection area, the table shows the sales order lines that have item allocation for this warehouse.

When you select this action, the system sorts sales order lines by the **Priority** specified for the sales order, ordering the lines from the lowest to the highest. For lines with the same priority, the system sorts the lines by the applicable date of the sales order (newest to oldest). The date the system uses is based on the option selected in the **Select By** box.

The user can review the allocated quantity and the quantity to deallocate for each line in the table. By default, the quantity to deallocate is equal to the full allocated quantity. The quantity to deallocate can be changed manually.

When the user clicks **Process** or **Process All** on the form toolbar with the *Deallocate Sales Orders* option selected in the **Action** box, for all processed lines of sales orders, the system removes allocations of stock items—that is, for these lines, the **Allocated** check box is cleared in the **Line Details** dialog box on the *Sales Orders* form, and the stock items have the *SO Allocated* item plan type removed.

Limitations of the Processing

For the Allocate Sales Orders option, the following limitations exist:

- The data in the table cannot be sorted by the values in the **Qty. to Allocate** column.
- On the *Manage Sales Allocations* form, the system does not show sales order lines for which any of the following conditions are met on the **Details** tab of the *Sales Orders* (SO301000) form:
 - The Mark for Production check box is selected.
 - The Mark for PO check box is selected, and the *Purchase to Order* or *Drop-Ship* option is selected in the **PO Source** column.
 - A non-stock kit is selected in the **Inventory ID** column.

For the Deallocate Sales Orders option, the following limitations exist:

- The data in the table cannot be sorted by the values in the **Qty. to Deallocate** column.
- On the *Manage Sales Allocations* form, the system does not show sales order lines for which any of the following conditions are met on the **Details** tab of the *Sales Orders* form:
 - The Mark for Production check box is selected.
 - The item in a line is allocated due to a released purchase or transfer receipt.
- If a full or partial quantity of the item in a sales order line is allocated by a lot or serial number on the *Manage Sales Allocations (SO501010)* form, only the full item quantity can be deallocated or the remaining item quantity that is not allocated by this lot or serial number. If a user manually changes the **Qty. to Deallocate** in the line, they cannot select this line for processing, and the system shows an error message.

Inventory and Order Management: Improved Item Cost Tracking and Quantity Displaying

In previous versions of Acumatica ERP, item quantities associated with projects and recorded to the *Normal* and *Project* cost layers were shown as part of the overall stock. These quantities were displayed separately only in the table footer on the **Details** tab and for a line in the lookup tables of the **Warehouse** and **Location** columns on inventory and order management documents, but were included in the overall stock quantities in other places on forms and in reports.

Starting in Acumatica ERP 2023 R2, if the *Project-Specific Inventory* feature is enabled on the *Enable/Disable Features* (CS100000) form and a user adds stock items to inventory and order management documents, the available quantity no longer includes these quantities. These quantities are also excluded from replenishment quantities and dead stock quantity.

Also, starting in Acumatica ERP 2023 R2, if the *Project-Specific Inventory* feature is enabled on the *Enable/Disable Features* form, item quantities that are associated with the *Normal* and *Project* cost layers can be shown as follows:

- On the Inventory Summary (IN401000) inquiry form
- On the Inventory Allocation Details (IN402000) inquiry form
- In the Inventory Balance (IN615000) report
- In the Inventory Valuation (IN615500) report

For details, see the following sections.

Displaying of Project-Tracked Item Quantities

If on the **Summary** tab of the *Projects* (PM301000) form for a project, *Track by Project Quantity* or *Track by Project Quantity and Cost* is selected in the **Inventory Tracking** box, the project's item quantity is calculated separately and recorded to the *Normal* or *Project* cost layer, respectively. Starting in Acumatica ERP 2023 R2, this quantity is excluded from the overall available quantity of the item's stock in the following locations.

Forms	Form Location	Usage Notes		
 Sales Orders (\$0301000) Invoices (\$0303000) Issues (IN302000) Adjustments (IN303000) Transfers (IN304000) Service Orders (F\$300100) Appointments (F\$300200) 	Qty. Available column of the In- ventory Lookup dialog box	A user opens this dialog box by clicking the Add Items button on the form toolbar of the Details tab.		
Sales OrdersInvoices	Qty. Available column of the Add Related Items dialog box	A user opens this dialog box by clicking the button in the Relat- ed Items column of the Details tab. The button is shown only if the <i>Related Items</i> feature is enabled on the <i>Enable/Disable Features</i> (CS100000) form.		

On the *Calculate Replenishment Parameters* (IN508500) form, the system calculates replenishment quantity and lead time for items whose quantities are not tracked for a project. On the *Prepare Replenishment* (IN508000) form,

the system calculates **Qty. To Process** based on item quantities that are not received for a project that tracks item quantities.

Also, in the **In Stock Qty.** and **Dead Stock Qty.** boxes on the *Dead Stock* (IN405500) form, the system shows only quantities that were not received for a project that tracks quantities.

Changes to the Inventory Summary Form

On the *Inventory Summary* (IN401000) form, the new **Expand by Cost Layer Type** check box has been added to the Selection area, and the **Cost Layer Type** column has been added to the table. The way item quantities are shown depends on the state of the check box as follows:

- If the check box is cleared, the system shows the total item quantities for both the *Normal* and the *Project* cost layer types for each warehouse–location pair.
- If the check box is selected, the system shows the values for each cost layer type separately for each warehouse–location pair (see the following screenshot).

	Inventory Su	CUSTOMIZATION	TOOLS -											
\circ \circ \mid \mathbf{X} \mathbf{X}														
	* Inventory ID:	AACOMPUT01	1 - Acer Laptop の ot/Serial Number ost Layer Type	 Warehouse: Location: 			م م			^				
8	Warehouse	Location	Cost Layer Type	Available	Available for Shipment	SO Booked	SO Allocated	SO Shipped	SO Back Ordered	Purchase Orders				
>	RETAIL	STORAGE	Normal	20.00	20.00	0.00	0.00	0.00	0.00	0.00				
	WHOLESALE	<unassi< td=""><td>Normal</td><td>-88.00</td><td>0.00</td><td>88.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td></unassi<>	Normal	-88.00	0.00	88.00	0.00	0.00	0.00	0.00				
	WHOLESALE	R1S1	Normal	246.00	244.00	0.00	36.00	18.00	0.00	0.00				
	WHOLESALE	<unassi< td=""><td>Project</td><td>-10.00</td><td>0.00</td><td>10.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td></unassi<>	Project	-10.00	0.00	10.00	0.00	0.00	0.00	0.00				
	WHOLESALE	R1S1	Project	10.00	10.00	0.00	0.00	0.00	0.00	0.00				
		Total:		178.00	274.00	98.00	36.00	18.00	0.00	0.00				

Figure: The new elements on the Inventory Summary form

For the Normal cost layer type, the system calculates the following item quantities:

- Non-project quantities
- Quantities for projects for which *Track by Location* is selected in the **Inventory Tracking** box on the **Summary** tab of the *Projects* (PM301000) form
- Quantities for projects for which *Track by Project Quantity* is selected in the **Inventory Tracking** box on the **Summary** tab of the *Projects* form

For the *Project* cost layer, the system calculates only quantities for projects for which *Track by Project Quantity* is selected in the **Inventory Tracking** box of the **Summary** tab of the *Projects* form.

Changes to the Inventory Allocation Details Form

On the **Item Plans** tab of the *Inventory Allocation Details* (IN402000) form, the **Cost Layer Type** column has been added to the table. This column shows the cost layer type to which the item plan is related (see the following screenshot).

Inventor ひ の	Y Allocation De	etails UMMARY	H X Y						CUS	TOMIZATION	TOOLS .
* inventory	D	AACOMF	UT01 - Acer Laptop	O Ø On Hand		328	00	On Loc Not Availa	ble	0.00	^
Warehou	50			O Available:		178.	00	Expired [*]		0.00	
Location				Available for Ship	ping	274.	00	[*] Except Location	on Not Available		
Lol/Sena Base Un	i Nbr it NS OTY BY PL	AN TYPE	E	Available for issu	IE	310.	00	[**] Except Expire	d and Loc. Not Availa	ble	
	_									VIEW D	OCUMENT
Module	Allocation Type	Allocation Date	Document Type	Reference Nbr.	Warehouse	Qty.	Location	Cost Layer Type	Account ID	Account Nar	ne
> 50	SO Booked	4/20/2023	Sales Order	SO, SO007467	WHOLESALE	2.00		Normal	AACUSTOMER	Alta Ace	
SO	SO Booked	5/8/2023	Sales Order	SO, SO007472	WHOLESALE	80.00		Normal	ABARTENDE	USA Barten	ding School
SO	SO Booked	5/8/2023	Sales Order	SO, SO007474	WHOLESALE	4.00		Normal	ABARTENDE	USA Barten	iding School
SO	SO Booked	5/11/2023	Sales Order	SO, SO007475	WHOLESALE	10.00		Project	AACUSTOMER	Alta Ace	
so	SO Allocated	4/20/2023	Shipment	005038	WHOLESALE	2.00	R1S1	Normal	ABARTENDE	USA Barter	ding School
so	SO Allocated	4/26/2023	Shipment	005039	WHOLESALE	2.00	R151	Normal	ABARTENDE	USA Barten	iding School
SO	SO Allocated	5/8/2023	Shipment	005040	WHOLESALE	2.00	R1S1	Normal	ABARTENDE	USA Barter	iding School

Figure: The Cost Layer Type column on the Inventory Allocation Details form

Changes to the Inventory Balance Report

On the *Inventory Balance* (IN615000) report form, the **Cost Layer Type Details** check box has been added (see the following screenshot).

Inventory Balance	TOOLS -
RUN REP	ORT SAVE TEMPLATE REMOVE TEMPLATE SCHEDULE TEMPLATE EDIT REPORT
Template	× ✓] Default □ Shared
REPORT PARAMETERS	ADDITIONAL SORT AND FILTERS PRINT AND EMAIL SETTINGS REPORT VERSIONS
Company/Branch:	PRODWHOLE - Products Wholesale ~
Inventory ID:	AACOMPUT01 - Acer Laptop Compute ,0
Inventory Class:	م
Warehouse:	م
Location:	٩
	Location Details
	✓ Cost Layer Type Details
	□ Lot/Serial Details
	Allocation Details

Figure: The new check box on the Inventory Balance report form

The state of the check box determines how item quantities are shown in the report as follows:

- If the check box is cleared, the report shows the total item quantities and costs for all cost layer types.
- If the check box is selected, the report shows the item quantities and costs for each cost layer type, and the new **Cost Layer Type** column is displayed in the report (see the following screenshot).

Inventory Balance Company/Branch: PRODWHOLE II User: admin admin P										
Inventory ID	Warehouse	Description	Cost Layer Type	Unit Cost	On Hand	Not Available	Expired	Available		
AACOMPUT01	WHOLESALE	Acer Laptop Computer		248.38	308.00	0.00	0.00	158.00		
			Normal	250.00	298.00	0.00	0.00	158.00		
			Project	200.00	10.00	0.00	0.00	0.00		
				-						

Figure: The new column in the Inventory Balance report

Changes to the Inventory Valuation Report

In the *Inventory Valuation* (IN615500) report, the new **Cost Layer Type** column has been added. The column shows the cost layer type related to the line (see the following screenshot).

Inventory Va Company/Branch	luation r: PRODWHOLE					Date:	5/12/2023 7:57 AM
User:	admin admin					Page:	1 of 1
Account	Sub.					Total Qty.	Total Cost
12100	WID-000					308.00	76,500.00
Warehouse	Inventory ID	Description	Location	Lot/Serial Nbr.	Cost Layer Type	Qty. On Hand	Total Cost
WHOLESALE	AACOMPUT01	Acer Laptop Computer			Normal	298.00	74,500.00
WHOLESALE	AACOMPUT01	Acer Laptop Computer			Project	10.00	2,000.00
					Total:	308.00	76,500.00

Figure: The new column in the Inventory Valuation report

Inventory and Order Management: Calculation of the Estimated Margin in Sales Orders

Acumatica ERP 2023 R2 introduces the ability to calculate the estimated margin for sales orders and sales order lines on the *Sales Orders* (SO301000) form. Estimated margin calculation is available for orders of all types except order types with the *Transfer Order* automation behavior. The estimated margin is calculated in the document's currency.

Changes to the Sales Orders Form

Starting in Acumatica ERP 2023 R2, on the *Sales Orders* (SO301000) form, the following changes have been made (see the following two screenshots):

- On the **Details** tab, the **Est. Margin (%)** and **Est. Margin Amount** columns have been added. These columns show the estimated margin percent and the estimated margin amount for a sales order line.
- On the **Totals** tab, the **Est. Margin (%)** and **Est. Margin Amount** read-only boxes have been added. These boxes show the estimated margin percent and the estimated margin amount for a sales order.

Sales Orders SO 000073 -	Deliciou	s Ener	gy Restaura	int					D	NOTES	ACTIVITIES	FILES	CUSTOMIZATION	TOOLS .
6 D D	0	+	0 0 ·	к < >	>1	QUICK PROCI	ESS	CREATE SHIPMENT	HOLD					
• Order Type:	so	P	· Customer:	DELIENER	Y - Delic	cious Energy Res ,	0	Ordered Qty	3.00					^
Order Nbr.	000073	R	+ Location	MAIN - Prim	ary Loca	tion s	0	Detail Total:	7,500.00					
Status.	Open		Contact	Diane Doe		5	0	Line Discounts.	0.00					
Date	8/21/2023	0	· Project.	X - Non-Pro	ect Code	e. 5	0	Document Dis.	0.00					
* Requested On:	8/21/2023	0	Description	Sale of juice	rs			Freight Total	0.00					
Customer Ord.								Tax Total	0.00					
External Refer								Order Total	7,500.00					
DETAILS TA	XES I	ADD IT	AL SHIPPIT	ADDRESS	S S	HIPMENTS P	NKE	ENTS RELATIONS	TOTALS	LINE	ITEM AVAILAE		t x	
🗄 🗟 🗋 *Branch		"Invente ID	ory Free Item	Warehouse	Line E	Description * (MOL	Quantity Sh	Qty. On Ipments	Open Qty.	Unit Price	Amount	Est. Margin (%)	Est. Margin Amount
> @ D SWEET	EQUIP	JUICE	R15 🗆	EQUIPHOUSE	Com	mercial juicer F	IEC	E 3 00	0.00	3.00	2,500.0000	7,500 00	20.00	1,500.00

Figure: The new elements on the Details tab of the Sales Orders form

Sales Orders SO 000073 - Delicio	us Energy Restaurant		NOTES ACTIVITIES FILES	CUSTOMIZATION TOOLS -
< □ □ ∽	+ 🗓 🗘 🗸 K	< >	QUICK PROCESS CREATE SHIPME	ENT HOLD ···
* Order Type: SO	Customer:	DELIENERGY	- Delicious Energy Res: \wp Ordered Qty.:	3.00
Order Nbr.: 000073	P * Location:	MAIN - Primary	Location $ ho$ $ ho$ Detail Total:	7,500.00
DETAILS TAXES	FINANCIAL SHIPPING	ADDRESSES	SHIPMENTS PAYMENTS RELATIONS	TOTALS
FREIGHT INFO			ORDER TOTALS	
Order Weight:		0.000000	Goods:	7,500.00
Order Volume:		0.000000	Misc. Charges:	0.00
Package Weight:		0.000000	Line Discounts:	0.00
Freight Cost:		0.00	Document Discounts:	0.00
	REFRESH FREIGHT COST		Tax Total:	0.00
	Freight Cost Is up-to-date		Est. Margin (%):	20.00
	Override Freight Price		Est. Margin Amount:	1,500.00
Invoice Freight Price B	Shipment		SHIPMENT AND INVOICE INFO	
Freight Price:		0.00	Unshipped Quantity:	3.00
Premium Freight Price:		0.00	Unshipped Amount:	7,500.00
Freight Tax Category:		Q	Unbilled Quantity:	3.00
			Unbilled Balance:	7,500.00
			Total Paid:	0.00
			Unpaid Balance:	7,500.00

Figure: The new elements on the Totals tab of the Sales Orders form

Calculation of Estimated Margin in Sales Order Lines

Starting in Acumatica ERP 2023 R2, on the *Sales Orders* (SO301000) form for a sales order line, the estimated margin percent is calculated according to the following formula.

Est. Margin (%) = (Line Net Sales - Line Cost) / Line Net Sales * 100

The parameters used in this formula have the following meanings:

- Line Net Sales is the line amount with line, document, and group discounts applied and inclusive tax amount excluded.
- Line Cost is the unit cost multiplied by the item's quantity.

An estimated margin is calculated in a sales order line when a new line is added to a sales order and the **Unit Cost**, **Unit Price**, and **Quantity** boxes have nonzero values.

If Line Net Sales is greater than Line Cost, an estimated margin has the following values:

- A positive value in a line with the Issue operation type
- A negative value in a line with the *Receipt* operation type

The Est. Margin Amount and Est. Margin (%) columns contain 0 in a line if the Ext. Price value is 0.

The **Est. Margin Amount** and **Est. Margin (%)** columns are empty in lines with a **Unit Cost** of 0 and in lines for which the **Mark for PO** check box is selected and the *Drop-Ship* or *Blanket for Drop-Ship* option is selected in the **PO Source** column.

The Est. Margin Amount and Est. Margin (%) values are recalculated on every value change that leads to an Est. Margin Amount value change—that is, when any of the following changes are made on the form:

• For a sales order line, the Quantity, Unit Price, Ext. Price, Tax Category, Discount Amount, or Discount Percent

- For a sales order, any of the following:
 - Currency rate right of the Currency box in the Summary area
 - Customer Tax Zone or Tax Calculation Mode on the Financial tab
 - Group and document discounts on the **Discounts** tab

The Est. Margin Amount and Est. Margin (%) values are not recalculated for completed sales order lines.

Calculation of the Estimated Margin in Sales Orders

Starting in Acumatica ERP 2023 R2, on the *Sales Orders* (SO301000) form for a sales order, the estimated margin percent is calculated according to the following formula.

Est. Margin (%) = (Order Net Sales - Order Costs)/Order Net Sales *100

The parameters used in this formula have the following meanings:

- For an order of a type with the *Issue* default operation:
 - Order Net Sales is the sum of the line amounts (with line, document, and group discounts applied and the inclusive tax amount excluded) plus the **Total Freight Price** (**Totals** tab) of the order with the inclusive tax amount excluded.
 - Order Costs is the sum of the line costs and Freight Cost (Totals tab).
- For an order of a type with the *Receipt* default operation:
 - Order Net Sales is the sum of the line amounts (with line, document, and group discounts applied and the inclusive tax amount excluded) minus the **Total Freight Price** of the order with the inclusive tax amount excluded.
 - Order Costs is the sum of the line costs minus Freight Cost.

The **Est. Margin Amount** and **Est. Margin (%)** values on the **Totals** tab are calculated when one of the following conditions has been met:

- Lines have been added to the **Details** tab.
- The Shipping Terms or Ship Via code (or both) have been specified or changed on the Shipping tab.
- Freight Price or Premium Freight Price have been specified or changed on the Totals tab.

Sales order lines that have a **Unit Cost** of 0 or that have *Drop-Ship* or *Blanket for Drop-Ship* selected in the **PO Source** column are not considered in the margin calculation for an order. The costs of sales order lines with the a **Unit Price** of 0 are considered in the margin calculation for an order.

The **Est. Margin Amount** and **Est. Margin (%)** values on the **Totals** tab are recalculated on every value change that leads to Order Net Sales or Order Costs recalculation. That is, they are recalculated on all changes of values that lead to line-level margin recalculation, and on changes to any of the following settings on the **Totals** tab: **Freight Cost, Freight Price, Freight Premium Price**, and **Freight Tax Category**.

The **Est. Margin Amount** and **Est. Margin (%)** values on the **Totals** tab are not recalculated in a sales order with the *Shipping, Pending Approval, Completed, Canceled,* or *Expired* status.

It is possible to configure the approval of sales orders based on the following:

- The line-level estimated margin—that is, the **Est. Margin Amount** and **Est. Margin (%)** values on the **Details** tab
- The order-level estimated margin—that is, the Est. Margin Amount and Est. Margin (%) values on the Totals tab
Viewing of the Estimated Margin for Any Sales Order

Starting in Acumatica ERP 2023 R2, information about the estimated margin was added to the side panel on the *Sales Orders (SO3010PL)* list of records. A user can view the percent of the estimated margin by selecting the needed sales order (see Item 1 in the following screenshot) and clicking **Sales Order Status** on the side panel (Item 2) to open this tab. On the dashboard that opens, the two table widgets now show the **Est. Margin (%)** column (Items 3 and 4). By clicking the widgets' titles the user can navigate from either of these widgets to the *All Sales Orders (SO3011SP)* inquiry form, which now has the **Est. Margin (%)** column.

S	ale	s (Order	s		B	CUSTOMIZAT	ION - TOOLS -	Sales Orders	Sales Order St Delicious Er	^{atus} hergy Resta	urant			[] ×
<	ALI	LRE		S MY SALES	ORDERS-				Colores	Customer Acc	ount ID. DEL	IENERGY - Delicious En	Q		
0	Orde	r Tyj	pe: All	Status: All	•	V 🛱		Q.	==	ORDERS TO	D SHIP				1
1	ate	All	•	Customer All +					Subst Dident	LATE ORDE	RS				0
-	9	۵	Order Type	Order Nbr.	Status	Date	Sched, Shipment	Customer 1		-					
5	9	D	SÖ	000071	Open	6/21/2023	6/21/2023	DELIENERGY	Printed Enviro	SHIPMENTS	S IN PROGRES	S			0
	0	D	IN	000057	Invoiced	1/7/2023	1/7/2023	TOMYUM	m	a sector of the					10
	0	D	IN	000059	Invoiced	1/9/2023	1/9/2023	HMBAKERY	Sales Order	RETURNS	BY CUSTOMER				0
	0	D	IN	000061	Invoiced	1/15/2023	1/15/2023	GOODFOOD	Status						-
	9	۵	IN	000063	Invoiced	1/18/2023	1/18/2023	COFFEESHOP	¥s	OPEN AND C	JOMPLETED	SALES ORDERS	3		
	0	D	MO	000113	Completed	1/29/2023	1/29/2023	ABAKERY	Received	Order Nbr.	Ordered Qty.	Order Currency Total	Est. Margin (%)	Status	Sched. Shipment
	0	۵	so	000001	Completed	1/29/2023	1/29/2023	COFFEESHOP		000071	3.00	7.500.00 USD	20.00	Open	6/21/2023
	0	D	SO	000002	Completed	1/25/2023	1/25/2023	GOODFOOD		1					
	0	D	SO	000003	Completed	1/27/2023	1/27/2023	HMBAKERY		DRAFTAND	ON HOLD SA	LES ORDERS		4	
	0	D	50	000004	Completed	11/2/2022	11/2/2022	HMBAKERY		Order Nbr.	Ordered	Order Currency	Est. Margin	(%) Status	Sched
÷.	-	-	_	_							Qty.	Total		_	Shipment
19	-10	of 7	5 recor	rds		10.1	1 018	pages > >I	>						

Figure: The new column in widgets on the Sales Order Status tab of the side panel

Inventory and Order Management: Invoices for Non-Stock Items Not Requiring Shipment

Acumatica ERP 2023 R2 introduces the ability to create a separate sales invoice for a sales order line with a nonstock item that does not require shipment—that is, a non-stock item for which the **Require Shipment** check box is cleared on the *Non-Stock Items* (IN202000) form.

Addition and Deletion of Document Lines with Non-Stock Items Not Requiring Shipment

In previous versions of Acumatica ERP, a user could not delete a line with a non-stock item that does not require shipment from an invoice on the *Invoices* (SO303000) form if the related sales order had either of the following lines:

- Lines with stock items
- Lines with non-stock items shipment

Suppose that in a previous version, a user created a sales order on the *Sales Orders* (SO301000) form. The user added a line with a stock item and another line with a non-stock item that does not require shipment. Then the user added the stock item to a shipment and confirmed the shipment. Finally, for the sales order on the *Sales Orders* form or for the shipment on the *Shipments* (SO302000) form, the user clicked **Prepare Invoice**. In the generated invoice, the system has added the line with the non-stock item that does not require shipment. This line, which could not be deleted from the invoice, had a link to the shipment.

Also, the user could not prepare a separate invoice for the line with this non-stock item or add this line to an invoice on the **Details** tab of the *Invoices* form by using the **Add SO Line** dialog box if both of the following were true:

- The related sales order had any lines with stock or non-stock items that require shipment.
- The related sales order had at least one unbilled line with a non-stock item that does not require shipment.

Starting in Acumatica ERP 2023 R2, for a sales order of a type with the *Sales Order* or *RMA Order* automation behavior and at least one line with a non-stock item not requiring shipment, users can do the following on the **Details** tab of the *Invoices* form:

- Delete a line that has one of these non-stock items and has a link to a sales order or shipment, even if the original sales order contains other stock items or non-stock items
- Add a sales order line with a non-stock item not requiring shipment to a separate invoice by using the **Add SO Line** dialog box and release the invoice
- Add a sales order line with a negative quantity (even if it has a non-stock item that does not require shipment) to a sales invoice by using the **Add SO Line** dialog box

Preparation of Invoices for Sales Orders and Shipments

Suppose that a sales order contains at least one unbilled line with a non-stock item not requiring shipment, as well as lines with stock or non-stock items that require shipment and are already completed and billed. Starting in Acumatica ERP 2023 R2, a user can prepare a separate invoice from this sales order for the lines that have a non-stock item not requiring shipment.

When the user clicks **Prepare Invoice** on the *Shipments* (SO302000) or *Sales Orders* (SO301000) form, the system will add to the invoice all the negative sales order lines with non-stock items not requiring shipment, even if it will lead to a negative invoice balance. In this case, the system will create the invoice with a negative balance and the *On Hold* status, regardless of the state of the **Hold Orders on Entry** check box on the *Order Types* (SO201000) form.



For a sales order on the *Sales Orders* form, a nonzero **Unbilled Balance** on the **Totals** tab (**Shipment and Invoice Info** section) for non-stock items not requiring shipment will affect the customer's **Open Orders Balance** on the **Financial** tab (**Credit Verification Rules** section) of the *Customers* (AR303000) form.

Inventory and Order Management: Other Improvements

In Acumatica ERP 2023 R2, improvements to inventory and order management processes and the UI have been introduced, as described below.

UI Enhancements and Workflow Changes in Picking Worksheets

In previous versions of Acumatica ERP, a user could not cancel a wave or batch picking worksheet that had the *Picking* status on the *Picking Worksheets* (SO302500) form.

Starting in Acumatica ERP 2023 R2, the following changes have been made to the *Picking Worksheets* form:

- The More button and the More menu have been added (see Items 1 and 2 in the following screenshot).
- The new Cancel Worksheet command has been added to the More menu (Item 3).

Picking Worksheets 0000001 - Wholesale Warehou	se		0			NOTES FILES	TOOLS -
S S S S S S S S S S S S S S S S S S S	< >	>I PRINT PICK L	ISTS				_
Worksheet Nbr. 000001 ,0	Warehouse ID:	WHOLESALE -	2 Processing		Ot	her	
Type Wave	Picking Started O	n 7/20/2023 1:01	Remove Hol				
Status Picking	Picking Finished (Dn:	Hold		3 Ca	ncel Worksheet	
Date: 1/30/2024			Pick All Ship				
DETAILS SHIPMENTS PICK	ERS		Printing and	d Emailing			
\circlearrowright + \times line details	→ X		Print Pick Lis	its			
B Warehouse Location	Inventory ID	UOM	Print Packing	Slips			
> WHOLESALE <split></split>	APJAM08	PIECE	03.00	0.00	0.00	0.00	-
WHOLESALE <split></split>	ORJAM32	PIECE	63.00	0.00	0.00	0.00	
WHOLESALE L1R2S2	LEMJAM96	PIECE	8.00	0.00	0.00	0.00	

Figure: Changes to the Picking Worksheets form

A user can click **Cancel Worksheet** if the selected worksheet is one of the following:

- A wave picking worksheet with the *Picking* status.
- A batch picking worksheet with the *Picking* status, if no shipments of this batch worksheet have been completely picked yet (that is, if the **Picked** check box is cleared for all the shipments included in this batch worksheet on the **Shipments** tab of the form).

When a picking worksheet is canceled, the system assigns the *Canceled* status to it, cancels all the created pick lists, and removes all the related shipments from the picking worksheet. The value in the **Picked Qty.** column for all table rows in the worksheet becomes *0*.

The process of physically distributing already-picked goods back to their storage locations is not covered by the picking workflow; this should be done manually according to the pick lists of the canceled worksheet.

Processing of Shipments for Non-Stock Items on the Pick, Pack, and Ship Form

In previous versions of Acumatica ERP, if on the *Shipments* (SO302000) form, a location was not specified for a nonstock item that required shipment, a user could not pick this item on the *Pick, Pack, and Ship* (SO302020) form.

A non-stock item requires shipment if it has the **Require Shipment** check box selected on the *Non-Stock Items* (IN202000) form.

Starting in Acumatica ERP 2023 R2, the new **Picking Location for Non-Stock Items** box has been added to the **Locations** tab of the *Warehouses* (IN204000) form (see the following screenshot).

W	HOL	LESALE - Who	lesale Warehouse						D NOTES	ACTIVITIES	FILES	CUSTOM	IZATION TO	OLS -
4		0 0	+ 🗊 Ó •	i< < > >i										
	Varel	house ID	WHOLESALE ,0	Location Entry:	Do	Not Allow On-the-F	ly En 🗸							^
	Branc	:h:	HEADOFFICE - Swe ,0	Average Default Co	st: Ave	erage	~	ā.						
	Reple	enishment Class.	PURCHASE - Replet ,P	FIFO Default Cost.	Ave	erage	~	e e						
			Active											
	Descr	ription:	Wholesale Warehouse											
L	DCAT	TIONS TOTES	GLACCOUNTS A	DDRESS INVENTOR	Y PLANNI	NG								
F	eceiv	ving Location:	MAIN - Main (receivir .O	PMA Location:	MAI	Main (receivir 1	0		r	Line Item Defaul	I Constion 6	or Dicking		
			Ha are - mont (record y-	POWM LOCADON	in the second	IA - Main freceivin >	ч.			The nem heran	Lucaberri	or reasing		
10	hippi	ing Location:	م م	Drop-Ship Location	MAI	N - Main (receivir)	o [Picking Locat	ion for No) Ose nem Delau	p	or r rosing		
Loc	hippin	ing Location:	ر م	Drop-Ship Location	MAI	N - Main (receivir)	o [Picking Locati	ion for No	1 ose nem Delau	p	or mosting		
Loc	hippin ation	Table + X D	L Z H	Drop-Ship Location.	MAI	N - Main (receivir)	• [Picking Locati	ion for No	1 Oper tiem Detaut	,p All Re	cords		Y
Loc O	hippit ation	Table + X () Location ID	P	And Eccation Drop-Ship Location	MAI Sort Location	N - Main (receivir) N - Main (receivir) Include in Qty. Si Available	Cost eparately	Picking Locati Sales Allowed	Receipts Allowed	Transfers Allowed	,0 All Re Pick Priority	cords Path	Primary Item Validation	Y
	hippin ation	Ing Location: Table + X 0 *Location ID F1S1	P P P P P P P P P P P P P P	Antive Excaluor Drop-Ship Location Active	MAI Sort Location	N - Main (receivir) N - Main (receivir) Include in Qty. Sa Available	Cost eparately	Picking Locat Sales Allowed	Receipts Allowed	Transfers Allowed	D All Re Pick Priority	cords Path 35	Primary Item Validation	Y
		Ing Location: Table + X (a) - Location ID - F1S1 - F1S2	P P P P P P P P P P P P P P	Active	Sort Location	N - Main (receivir) Include in Qty. Sr Available	Cest eparately	Picking Locati Sales Allowed	Receipts Allowed	Transfers Allowed	,0 All Re Pick Priority 1	cords Path 35 35	Primary Item Validation No Validation No Validation	Y
		Ing Location: Table + X 0 - Location ID - F1S1 - F1S2 - F2S1	P P P P P P P P P P P P P P	Antive Excaluor Drop-Ship Location Active	Sort Location	N - Main (receivir) Include in Cry. Sr Available	Cost reparately	Picking Local Sales Allowed	Receipts Allowed	Transfers Allowed	,0 All Re Pick Priority 1 1	cords Path 35 35 65	Primary Item Validation No Validation No Validation No Validation	Y

Figure: The new box on the Warehouses form

This box appears if the *Warehouse Management* feature is enabled on the *Enable/Disable Features* (CS100000) form. In the **Picking Location for Non-Stock Items** box, the default warehouse location for the picking of non-stock items should be specified. When a shipment is created, the value in the **Location** column on the **Details** tab will be copied from the **Picking Location for Non-Stock Items** box for a non-stock item that requires shipping. This location will be used for picking the non-stock item when a pick list is created for the shipment.

On-the-Fly Editing of Package Dimensions in Pack and Pack-Only Modes

Acumatica ERP 2022 R2 introduced the ability to update box dimensions on the fly on multiple forms related to packaging. While this workflow was added for Ship mode of the *Pick, Pack, and Ship* (SO302020) form, a user could not change the dimensions of boxes in Pack or Pack-only mode of the form.

In Acumatica ERP 2023 R2, a new **Confirm Dimensions for Packages with Editable Dimensions** check box has been added to the **Warehouse Management** tab of the *Sales Orders Preferences* (SO101000) form (shown in the following screenshot).

Sales Orders Prefere	ences	
2		
GENERAL MAILING &	PRINTING	WAREHOUSE MANAGEMENT
These settings are specific to t	he current brar	ich.
FULFILLMENT WORKFLOW		
	Displa	iy the Pick Tab
	🗸 Displa	iy the Pack Tab
	🗌 Displa	iy the Ship Tab
	🔽 Displa	y the Return Tab
	🔽 Displa	y the Scan Log Tab
FULFILLMENT SETTINGS		
Short Shipment Confirmation	: Forbid	~
Order Shipment Lines by Loo	ati Pick Pri	ority ~
	🗌 Use 🛙	efault Quantity
	🗌 Use E	xplicit Line Confirmation
	🗌 Use 🛙	efault Location
	Confir	m Weight for Each Package
	🗌 Confi	m Dimensions for Packages with Editable Dimensi
	Requ	est Location for Each Item
	Confir	m Tote Selection on Wave Picking
	Add T	otes to Shipments on the Fly
	Print P	Packing Slips with Pick Lists

Figure: The new check box for confirmation of dimensions

If this check box is selected, the system adds a new step to the processing of a shipment in Pack and Pack-Only modes on the *Pick, Pack, and Ship* form. When the user confirms a package that includes a box with the **Editable Dimensions** check box selected on the *Boxes* (CS207600) form, the system requires the user to confirm the existing dimensions or enter different dimensions for the box (as shown in the following screenshot).

Pick, Pack, and Ship													
8	CONFIRM PACKAGE CONFIRM SHIPMENT												
Scan: 15 15 20 Shipment Nbr.: 000060 The DARGE package is ready to be confirmed. It has the following default dimensions: 12 x 12 x 6. Enter the actual length, width, and height of the package. Use a space as a separator. To use the default dimensions, click OK													
PACK	PACK SCAN LOG												
Q I	⊷I	X											
Matche	d	Line Order Nbr. Type	Order Nbr.	Location	Inventory ID	Description	Picked Quantity	Packed Quantity	Quantity	UOM	Free Item		
> 🗸		1 SO	000064	L3R3S2	ORJAM96	Orange jam 96 oz	5.00	5.00	5.00	PIECE			
Package		1-LARGE 🔎	Confirmed	Weight:	0.0000 Max \	Veight: 20.0000 UOM:	KG Dir	nensions (L x W x H):	12.00 x 12	.00 x 6.00			
Package	Conte	ent											
Ö	⊷I	X											
8 L	Line li Nbr.	nventory ID	Description		Packed Qty.	Quantity UOM							
>	1	ORJAM96	Orange jam 96 oz		5.00	5.00 PIECE							

Figure: Entry of different dimensions

If the user wants to accept the default dimensions of the box, they can do that by clicking **OK** on the form toolbar or by scanning the *OK command. If the user wants to change the dimensions of the box, they need to enter the length, width, and height (in this order) in one string with a space as a separator. The following example shows the entry of dimensions: 20 15 40.

When the user enters new values, the dimensions of the box are overridden for the package of the shipment and can be validated on the **Packages** tab of the *Shipments* (SO302000) form.

Visibility of Billing Options and Creation of Separate Invoices During the Processing of Shipments

In previous versions of Acumatica ERP, if shipments had been created for sales orders, and then a user prepared invoices for these shipments by using the *Process Shipments* (SO503000) form, the user could not see whether multiple invoices (one for each sales order in a shipment) or an aggregated invoice would be created for each listed shipment. Also, the user could not create a separate invoice for a particular shipment on this form.

Starting in Acumatica ERP 2023 R2, if a user selects the *Prepare Invoice* action on the *Process Shipments* form, the user can see the billing option for each shipment. The **Billing in Orders** column has been added to this form (see the following screenshot). This column indicates how the sales orders in the shipment are defined to be billed: in an aggregated invoice, in separate invoices, or a mix of these billing options.

F	Pro	ces	s S	hipments	5								CUSTOMIZATIC	N TOOLS .
4	5	4)	PROCESS	PROCESS A	LL O V		7						م ر
	Ac	tión:			Prepare Invoice		Custome	n			,o			^
	St	art D	ate:		~		Carrier				P			
	• En	d De	ite		1/30/2023 ~		Ship Via				Q			
	l Inv	/OICE	Date	8	1/30/2023		Warehou	Se:			Q			
							Packagin	g Type.	Auto and Manu	al	~			
8	0	۵		Shipment Nbr.	Status	Shipment Date	Customer ID	Customer I	4ame	Location	Location Name	Customer Order Nbr.	Billing in Orders	Bill Separately
٠	0	D		000068	Confirmed	1/30/2023	GOODFOOD	GoodFood	One Restaurant	MAIN	Primary Location		Mixed Billing	D.
٠	0	۵		000069	Confirmed	1/30/2023	ABAKERY	Alien's Bal	kery	MAIN	Primary Location		Aggregated Billing	
٠	0	D		000070	Confirmed	1/30/2023	ABAKERY	Allen's Bal	kerv	MAIN	Primary Location		Separate Billing Only	0

Figure: The new column on the Process Shipments form

In the **Billing in Orders** column, one of the following options is shown:

- Aggregated Billing: The shipment includes only sales orders that have the **Bill Separately** check box cleared on the **Financial** tab of the Sales Orders (SO301000) form. In this case, if other conditions for aggregated billing are met (for details, see Sales of Stock Items: Mass-Processing of Documents), one invoice will be created for all the sales orders included in the shipments that have this option.
- *Mixed Billing*: The shipment includes both of the following types of sales orders:
 - Sales orders with the **Bill Separately** check box cleared
 - Sales orders with the **Bill Separately** check box selected

In this case, for each sales order with this check box selected, a separate invoice will be created, and for all sales orders with this check box cleared, one invoice will be created if the conditions are met for aggregated billing.

• Separate Billing Only: This option means that the shipment includes only sales orders for which the **Bill** Separately check box is selected. In this case, a separate invoice will be created for each sales order in the shipment.

For any shipment, a user can select or clear the check box in the **Bill Separately** column on the *Process Shipments* form. If the user selects the check box for a shipment that has *Aggregated Billing* or *Mixed Billing* in the **Billing in Orders** column, and processes this shipment, a separate invoice will be created for this particular shipment. Thus, this shipment will not be aggregated in the same invoice with other shipments for the same customer.

UI Changes on the Non-Stock Items, Template Items, and Item Classes Forms

In order to improve the user experience, the following UI changes related to accrual cost calculation have been made:

- On the Price/Cost tab of the Non-Stock Items (IN202000) form (shown in the screenshot below) and Template Items form, the Accrue Cost check box has been reworked into the Post Cost to Expenses On drop-down box. The Cost Accrual section has been renamed to Posting of Item Cost.
- On the **General** tab of the *Item Classes* (IN201000) form, the **Accrue Cost** check box has been reworked into the **Post Cost to Expenses On** drop-down box.

The **Post Cost to Expenses On** box has the following options:

- *Purchases*: If this option is selected, the system works in the same way it did when the **Accrue Cost** check box was cleared.
- Sales: If this option is selected, the system works in the same way it did when the **Accrue Cost** check box was selected.

Non-Stock Items CABLE - Electric	cable (20 me	ters)				
\leftarrow	o + 🖻	Ĵ, ∧ K <	> >			
★ Inventory ID: Item Status:	CABLE - El	ectric cable (20 meters)	Product Workgr Product Manag	roup:		Q Q
Description:	Electric cab	le (20 meters)				
GENERAL PRICI	E/COST VEN	DORS CROSS-REF	ERENCE RELATED ITE	EMS PACKAGING	GL ACCOUNTS	ATTRIBUTES
PRICE MANAGEMEN	г		STANDARD COST			
Price Class:		م	Pending Cost:	0.0000		
Price Workgroup:		م	Pending Cost Date:	~		
Price Manager:		Q	Current Cost:	0.0000		
Min. Markup %:	0.000000		Effective Date:			
Markup %:	0.000000		Last Cost:	0.0000		
MSRP:	0.0000		POSTING OF ITEM C	OST		
Default Price:	0.0000		Post Cost to Expe	Purchases	~	
			Cost Based On:	Purchases		
			Percent of Sales	Sales		

Figure: The UI changes on the Non-Stock Items form

No other changes have been made to the functionality and default values of the accrual cost calculation.

Localization: T5018 Report Enhancements

In previous versions of Acumatica ERP, when users were generating a new revision of the T5018 report for a company with a large number of transactions, the system could become unresponsive when the calculation was in progress. Sometimes users received a timeout error and the calculation was canceled. To address these issues, multiple UI enhancements have been made to the *Create T5018 E-File* (AP507600) form.

The following screenshot illustrates the UI changes that are visible on this form before the T5018 report has been prepared.

Create T5018 E	-File			FILES		TOOLS -
	PREPARE REPORT	VIEW VALIE	ATION REPORT	CREAT	E E-FILE	
* Transmitter:	PRODUCTS - Revision	Two I 🔎	From:	1/1/20	22	^
* T5018 Tax Year:	2022	Q	To:	12/31/	2022	
* Revision:	<new></new>	Q				
	E-File Submitted to CR	RA 4				
Filing Type:	Original	5				
Threshold Amount:	0.00					
DETAILS SUMN	IARY					
Č →						
E Vendor Ven	dor Name	Payer		Amount	Tax Registration ID	

Figure: The UI changes before the original report has been prepared

The following UI changes are shown in the screenshot:

• The Prepare Report button (see Item 1 in the screenshot above) has been added to the form toolbar.

The user clicks this button after entering the needed settings on the form. The system populates and saves the data for the T5018 report and shows the total of all the transactions for all the individual subcontractors on the **Details** tab.

The **Prepare Report** button is visible on the form if the original report (revision 1) has not been prepared. Once it has been prepared, the button becomes hidden. If the user needs to prepare another original report, the already-prepared report will have to be deleted.

- The Create T5018 Validation Report button has been renamed to View Validation Report (Item 2), and the Create T5018 E-File button has been renamed to Create E-File (Item 3).
- The Add New Record button has been removed.
- The behavior of the **E-File Submitted to CRA** check box (Item 4) has been changed. Now users cannot clear the check box for the original report (revision 1) if an amendment (revision 2) has been created for the original report. To clear the check box for the amended report (revision 2), the user will have to delete the subsequent amended report (revision 3).
- In the **Filing Type** box (Item 5), the *Original* and *Amendment* options are now read-only. This box is used for informational purposes.

The following screenshot illustrates a UI change that is visible on the *Create T5018 E-File* form after the original T5018 report has been prepared.

Create T5018 E	-File		NOTES FILES CUSTOMIZATION TO					
	AMEND REPORT	VIEW VALIE	ATION REPORT	CREATE E-FILE	E			
* Transmitter:	PRODUCTS - Revision	n Two I 🔎	From:	1/1/2021		^		
* T5018 Tax Year:	2021	Q	To:	12/31/2021				
* Revision:	1	Q						
	E-File Submitted to C	RA						
Filing Type:	Original							
Threshold Amount:	0.000000							
DETAILS SUMM	ARY							
⊘ ↔ ⊠								
Vendor	Vendor Name	Payer		Amount	Tax Registration ID			
> FOODETISUP	Etik Food Supplies	Revision T	wo Products	50,890.50	123321987RT654	7		

Figure: UI change after the original report has been prepared

The **Amend Report** button has been added to the form toolbar. When the user adds or voids any payment to a particular subcontractor and requires an amended T5018 report, the user clicks **Amend Report** and enters the settings (**Transmitter** and **T5018 Tax Year**) for the amended report.

The **Amend Report** button appears on the form after the user prepares the original report (revision 1). The user can prepare an amendment by clicking this button after they submit the original report to the Canada Revenue Agency (CRA) by selecting the **E-File Submitted to CRA** check box and saving the changes on the form. Likewise, the user will be able to prepare an amended report (revision 3) after the previously amended report (revision 2) has been submitted to the CRA.

Additional Information

For details on how to generate the original T5018 e-file, see To Generate the Original T5018 Form.

For details on how to generate an amendment to the original T5018 e-file, see *To Generate an Amendment to the T5018 Form*.

Manufacturing: DeviceHub Support for the Print Production Orders Form

In previous versions of Acumatica ERP Manufacturing Edition, the ability to automate production order printing was limited and inconsistent with the printing capabilities for other processing forms in Acumatica ERP; also, this functionality did not use the DeviceHub feature.

In Acumatica ERP Manufacturing Edition 2023 R2, additional UI elements have been added to the *Print Production Orders* (AM511000) form to support the ability to print production order tickets by using automated schedules. These elements are visible after the system administrator enables the *DeviceHub* feature on the *Enable/Disable Features* (CS100000) form.

DeviceHub Settings for Manufacturing

In Acumatica ERP Manufacturing Edition 2023 R2, before the new DeviceHub UI elements can be used on the *Print Production Orders* (AM511000) form, the DeviceHub application must be installed.

The *DeviceHub* feature should also be enabled on the *Enable/Disable Features* (CS100000) form (see the following screenshot).

Enabl	e/Disable Features
S	MODIFY ENABLE
	Canadian Payroll
	Platform
	Monitoring & Automation
	Approval Workflow
	Field-Level Audit
	Row-Level Security
	Scheduled Processing
	C DeviceHub
	GDPR Compliance Tools
	Secure Business Date
	Image Recognition for Expense Receipts
	Image Recognition for Business Cards
	AP Document Recognition Service

Figure: The enabled DeviceHub feature on the Enable/Disable Features form

Use of the New DeviceHub Elements on the Print Production Orders Form

To support the automation of printing production orders, in Acumatica ERP Manufacturing Edition 2023 R2, the following elements have been added to the *Print Production Orders* (AM511000) form (see the following screenshot):

• The Print with DeviceHub check box

- The Define Printer Manually check box
- The **Printer** box
- The Number of Copies box

P	rin	t P	rod	uction (Orders								CUSTOMIZATIO
C	5	5)	PROCES	S PROCESS	ALL O + 1							
	Pro	duc	t Ma	nager			Ø □Me	Customer:				Q	
	Pro	duc	t Wo	rkgroup			Ø □ My	SO Order Type.				Q	
	Iter	n Cl	ass I	ID:			Q	SO Order Nbr.:				Q	
	inv	ento	iy ip):			Q	Order Type:				Q	
	Wa	reho	ouse	ID:			2	Production Nbr				,o	
	Sta	rt D	ate							Reprint			
	En	d Da	te			-v				Print with I	DeviceHub		
										Define Prin	ter Manually		
								Printer.					
								Number of Copies			1		
8	0	D	0	Order Type	Production Nbr.	Inventory ID	Warehouse	Qty, to Produce	UOM	Start Date	End Date	Order Date	Description
>	0	D		RO	AMP000001	CEJCITRUS	WORKHOUSE	2.00	EA	5/11/2023	5/11/2023	5/11/2023	Configurable juicer for citrus
	0	D		RO	AMP000003	CEJCITRUS	WORKHOUSE	12.00	EA	5/11/2023	5/11/2023	5/12/2023	Configurable juicer for citrus
	0	D		RO	AMP000004	CEJCITRUS	WORKHOUSE	12.00	EA	5/11/2023	5/11/2023	5/12/2023	Configurable juicer for citrus
	0	D	0	RO	AMP000005	CEJCITRUS	WORKHOUSE	12.00	EA	5/11/2023	5/11/2023	5/16/2023	Configurable juicer for citrus

Figure: The new UI elements on the Print Production Orders form

Now a user can select the **Print with DeviceHub** check box if they want to print with DeviceHub. With this check box selected, DeviceHub prepares the production order ticket to be printed and prints it automatically.

The user can also manually specify the printer to be used by selecting the **Define Printer Manually** check box and then selecting the printer in the **Printer** box. If the **Define Printer Manually** check box is cleared, the system inserts into the **Printer** box the default printer specified on the *User Profile* (SM203010) form for this user. If a printer is not specified on the *User Profile* form for this user, then the user must select the **Define Printer Manually** check box on the *Print Production Orders* form and specify the printer. Also, the user can specify the number of copies to be printed in the **Number of Copies** box.

Automation of the Printing of Production Orders

In Acumatica ERP Manufacturing Edition 2023 R2, to support the printing of production orders by using an automation schedule, the system administrator can create an automation schedule on the *Automation Schedules* (SM205020) form. On this form, the administrator can do the following:

- Select *Print Production Orders* in the **Screen ID** box to print production orders (see Item 1 in the following screenshot)
- In the row with *Print with DeviceHub* specified in the **Field Name** column, select the **Value** check box to print with DeviceHub (Item 2)
- In the row with *Define Printer Manually* specified in the **Field Name** column, select the **Value** check box to define the printer manually on the *Print Production Orders* (AM511000) form (Item 2)
- In the row with *Number of Copies* specified in the **Field Name** column, specify the number of the copies to be printed in the **Value** box (Item 2)
- In the row with *Printer* specified in the **Field Name** column, specify the printer to be used in the **Value** column (Item 2)

ŀ	Auto	oma	ation S	chedu	les								
(1	£.,	· +	Ū	K	<	>	>I	VIE	W SCREEN	VIEW HISTO	RY	
	Sc * De	hedu	lle ID:		<nev< th=""><th>V></th><td></td><td></td><td>Q</td><td>Active</td><td></td><td></td><td></td></nev<>	V>			Q	Active			
Γ	* Sc	reen	ID:		Print	Product	tion Order	S ,	ρ	1 * Action Na	ime:	Process All	~
	DET	TAILS	s sc	HEDULE	E C	ONDIT	IONS	FILTER	r VA	LUES			
	Ċ	+	×	↔	X								
8	0		Active	* Field N	lame			Relati	iv	Value		Ignore Error	
	0		\checkmark	Me									
	0		\checkmark	Му									
	0		\checkmark	Reprint									
	0		\checkmark	Print wi	ith Devi	ceHub				\checkmark			2
	0		\checkmark	Define	Printer	Manual	lly			\checkmark			
	0		\checkmark	Numbe	r of Co	pies				1			
Z	0	D	\checkmark	Printer						0baab344-df92	2-4061-a33e-e		

Figure: An automation schedule for printing production orders on the Automation Schedules form

Once the schedule has been created, the printing of production orders will be processed automatically, and the printing task will be sent to the specified printer.

Additional Information

For details on DeviceHub, see To Set Up the Connection with DeviceHub.

Manufacturing: Enabling of the Manufacturing and Multiple Base Currencies Features

In previous versions of Acumatica ERP Manufacturing Edition, the *Manufacturing* feature could not be enabled on the *Enable/Disable Features* (CS100000) form if the *Multiple Base Currencies* feature was enabled. The ability to have both features enabled at the same time was restricted because the manufacturing subledger could not store costs in differing currencies within the same instance of Acumatica ERP

In Acumatica ERP Manufacturing Edition 2023 R2, the manufacturing subledger supports the ability to capture different cost currencies within the same instance. This support has removed the restriction on the *Enable/Disable Features* form that a user could not enable both the *Multiple Base Currencies* feature and the *Manufacturing* feature.

Manufacturing: MRP and Inventory Replenishment Planning Enhancements

To help organizations to maintain proper inventory levels, Acumatica ERP has two planning processes that it can use to monitor item supply and demand and to then recommend the needed purchases and transfers:

- The inventory replenishment process, which is available if the *Inventory Replenishment* feature is enabled on the *Enable/Disable Features* (CS100000) form
- The material requirements planning (MRP) process, which is available when the *Material Requirements Planning* feature is enabled on the *Enable/Disable Features* form

In previous versions of Acumatica ERP, if a company wanted to use the inventory replenishment functionality for some of its inventory and the material requirements planning functionality for their other items in inventory, it was difficult to configure the inventory planning settings because it was unclear which elements affected which planning processes.

In Acumatica ERP 2023 R2, users can specify the planning method to be used for a particular item class, stock item, and item–warehouse pair. The ability to specify the record's planning method has been added to the following forms: *Item Classes* (IN201000), *Stock Items* (IN202500), and *Item Warehouse Details* (IN204500).

Also, existing planning elements have been moved and renamed on the above-mentioned forms, as well as on the *Warehouses* (IN204000) form. These enhancements were designed to improve the user experience and reduce confusion during the configuration of both inventory replenishment planning and material requirements planning.

New Planning Method Box on Multiple Forms

If the *Material Requirements Planning* and *Inventory Replenishment* features are both enabled, the new **Planning Method** box now appears on the *Item Classes* (IN201000), *Stock Items* (IN202500), and *Item Warehouse Details* (IN204500) forms.

This box contains the planning method to be used for the record selected on the form. The planning method specified for the item class is used as the default planning method for stock items created by using that class, but users can change the planning method at the stock item level. The item planning method on the *Item Warehouse Details* form is informational; Acumatica ERP Manufacturing Edition does not support different planning methods for different item-warehouse pairs with the same item.

For each item class or stock item, one of the following options should be selected in the **Planning Method** box of the *Item Classes* or *Stock Items* form, respectively:

- *None*: This option, which is always available, indicates that the stock item should not be planned by using inventory replenishment planning or MRP.
- Inventory Replenishment: This option is available when the Inventory Replenishment feature is enabled on the Enable/Disable Features (CS100000) form. This planning method indicates that the stock item is planned by using the inventory replenishment planning engine. Only items that are planned by using this planning engine will appear on the Prepare Replenishment (IN508000), Calculate Replenishment Parameters (IN508500), and Apply Replenishment Parameters (IN509500) forms. The following screenshot shows the Inventory Replenishment planning method available for selection on the Stock Items form.



Figure: The Inventory Replenishment method on the Stock Items form

- *MRP*: This option, which is available for selection if the *Material Requirements Planning* feature is enabled on the *Enable/Disable Features* form, indicates that the material requirements planning engine is used for the item class or the stock item. Only items that are MRP-planned (that is, items for which this planning method is selected) will appear on the following forms:
 - MRP Audit History (AM000017)
 - MRP Buckets (AM201200)
 - MRP Display (AM400000)
 - MRP Exceptions (AM403000)
 - MRP History (AM000016)
 - MPS Listing (AM000004)
 - MRP Preferences (AM100000)
 - MRP Requirements by Item (AM401200)
 - MPS Type (AM203000)
 - Regenerate MRP (AM505000)

The following screenshot shows the availability of all planning method options on the *Stock Items* form.

PJAM08 - Apple ja	m 8 oz.					D NOTES A	CTIVITIE
n n n o	+ @ 0 ~ K	< >	м				
Inventory ID:	APJAM08 - Apple jam 8 oz.	Q	Product Workgroup:			Q	
Item Status:	Active ~		Product Manager			Q	
Description	Apple jam 8 oz.						
Template ID: TEM DEFAULTS			UNIT OF MEASURE Base Unit	PIECE	0	Divisible Unit	
TEM DEFAULTS		- 1	Base Unit	PIECE		Divisible Unit	
Ham Close	LAM Inm						
Item Class	JAM - Jam None		Burchase Unit	PIECE	0 1	Divisible Unit Divisible Unit	
Item Class Type: Valuation Method:	JAM - Jam None MRP		Purchase Unit	PIECE	p d	Divisible Unit	
Item Class Type: Valuation Method: Planning Method:	JAM - Jam None MRP Inventory Replenishment Inventory Replenishment		• Purchase Unit:	PIECE	p d	 Divisible Unit Divisible Unit 	
Item Class Type: Valuation Method: Planning Method: Tax Category.	JAM - Jam None MRP Inventory Replenishment Inventory Replenishment TAXABLE - Taxable Goods and	Servic P Ø	• Purchase Unit:	PIECE PIECE Weight	p d Item	Divisible Unit Divisible Unit	
Item Class Type. Valuation Method: Planning Method: Tax Category. Posting Class.	.4AM - Jam None MRP Inventory Replenishment Inventory Replenishment TAXABLE - Taxable Goods and FDI - Food Items	Servic P 0 P 0	Purchase Unit Purchase Unit From Unit	PIECE PIECE Weight	D D Item Conve	Divisible Unit	
Item Class Type: Valuation Method: Planning Method Tax Category. Posting Class: Auto-Incremental Value:	JAM - Jam None MRP Inventory Replenishment Inventory Replenishment TAXABLE - Taxable Goods and FDI - Food Items	Servic P 0	Putchase Unit Putchase Unit From Unit JBOX Mult	PIECE PIECE Weight	D D D Item	Divisible Unit Divisible Unit Divisible Unit ersion To Unit actor 00000 PIECE	

Figure: The MRP option on the Stock Items form

Changes to Forms in the Inventory Workspace

The following table summarizes the changes to the inventory forms.

Form	Difference from the Previous Version
Item Classes (IN201000)	The following differences from the previous version are identical
Stock Items(IN202500)	 The Replenishment tab has been renamed to Inventory Planning.
	• If the <i>Inventory Replenishment</i> feature is enabled, the <i>Material Requirements Planning</i> feature is enabled, or both features are enabled on the <i>Enable/Disable Features</i> (CS100000) form, then the Planning Method box is displayed on the General tab.
	 The planning method that is specified in the Planning Method box controls what is displayed on the Inventory Planning tab. Manufacturing settings and MRP settings can be specified on the Inventory Planning tab.

Form	Difference from the Previous Version
Item Warehouse Details (IN204500)	 The Replenishment tab has been renamed to Inventory Planning. If the Inventory Replenishment feature is enabled, the Material Requirements Planning feature is enabled, or both features are enabled on the Enable/Disable Features form, then the Planning Method box is displayed on the General tab. The planning method that is specified in the Planning Method box (which is read-only) controls what is displayed on the Inventory Planning tab. The planning method is configured at the stock item level. MRP and manufacturing users will now specify the following settings on the Inventory Planning tab instead of on the Manufacturing tab: Source, Min. Order Qty., Max Order Qty., Lot Size, Transfer Lead Time, Days of Supply, and Manufacturing Lead Time.
Warehouses (IN204000)	The Inventory Planning tab has been added to the <i>Warehouses</i> form. This tab is displayed when the <i>Material Requirements Planning</i> feature is enabled on the <i>Enable/Disable Features</i> form. The tab contains UI elements that were previously located on the Manufacturing tab. The Inventory Planning tab also includes inventory planning settings that control what supply and demand business documents would be used by the material requirements planning engine. If the <i>Multiple Warehouses</i> feature is enabled on the Enable/Disable Features form. The
Prepare Replenishment (IN508000)	This form displays only items for which <i>Inventory Replenishment</i> has been specified as the planning method.
<i>Calculate Replenishment Parameters</i> (IN508500)	This form displays only items for which <i>Inventory Replenishment</i> has been specified as the planning method.
Apply Replenishment Parameters (IN509500)	This form displays only items for which <i>Inventory Replenishment</i> has been specified as the planning method.

Upgrade Notes

If the *Inventory Replenishment* feature was enabled and the *Material Requirements Planning* feature was not enabled on the *Enable/Disable Features* (CS100000) form before the upgrade to Acumatica ERP 2023 R2, then the planning method for all stock item classes will be automatically inserted as *Inventory Replenishment* on the **Inventory Planning** tab of the *Stock Items* (IN202500) form.

If the *Material Requirements Planning* and *Inventory Replenishment* features were both enabled on the *Enable/ Disable Features* form before the upgrade:

- For all stock item classes, on the Inventory Planning tab of the Item Classes (IN201000) form and the Stock Items form, respectively, the planning method will be specified as Inventory Replenishment.
- For stock items, the state of the **MRP Item** check box on the **Manufacturing** tab of the *Stock Items* form determines the planning method to be inserted in the **Planning Method** box during upgrade as follows:
 - Selected: The planning method will be specified as MRP.
 - Cleared: The planning method will be specified as *Inventory Replenishment*.

We recommend that you review the settings of stock item classes after the upgrade and make sure that the needed planning method is selected. Also, we recommend that before the upgrade, you review the settings of stock items and verify that only stock items intended to be planned with MRP have the **MRP Item** check box selected.

If the *Material Requirements Planning* feature was enabled and *Inventory Replenishment* feature was disabled before the upgrade, then the following changes occur during the upgrade:

• For all stock item classes, on the **Inventory Planning** tab of the *Item Classes* form, the planning method will be specified as *MRP*.



We recommend that you review the settings of stock item classes after the upgrade because new elements are available after the upgrade and default values will be inserted.

- For stock items, the state of the **MRP Item** check box on the **Manufacturing** tab of the *Stock Items* form determines the planning method to be inserted during upgrade as follows:
 - Selected: The planning method will be specified as MRP.
 - Cleared: The planning method will be specified as *None*.

Additional Information

For more information on MRP, see *Configuring MRP*. For more information on inventory replenishment, *Configuration of Replenishment: General Information*.

Manufacturing: New Locked Status for Production Orders

In previous versions of Acumatica ERP Manufacturing Edition, when the status of a production order on the *Production Order Maintenance* (AM201500) form was changed from *Completed* to *Closed*, the production order became unavailable for any transaction, and the WIP balance was cleared from the production order. If the manufacturing manager closed the production order, then the manufacturing cost accountant was unable to reopen the production order to make adjustments as part of the review process.

Acumatica ERP Manufacturing Edition 2023 R2 introduces the new *Locked* status on the *Production Order Maintenance* form. This status can be assigned to a production order after *Complete* and before *Closed* if it fits the company's processes. When a production order is *Locked*, the system prevents labor, material, and move transaction costs from being applied to the production order. The manufacturing cost accountant can review the cost of the locked production order and make any needed WIP adjustments to it before closing the order.

Also, a new role, *Manufacturing Cost Accountant*, has been introduced. An administrator can assign this role to the users who will review and adjust the production orders before closing them. When a manufacturing cost accountant closes a production order, the system posts the final WIP balance to the general ledger.

Enabling of the Locking of Production Orders

To support the review and locking of production orders for further labor, material, move, or WIP transactions, the **Lock Production Orders before Closing** check box has been introduced on the *Production Preferences* (AM102000) form (see the following screenshot). This setting reflects whether the *Locked* status can be set for production orders in the system.

Production Preferences								GUSTOMIZATION	TOOLS -
0									
GENERAL									
NUMBERING SETTINGS		-	DATA ENTRY SETTINGS				_		
Move Numbering Sequence:	AMBATCH - Manufacturing be ,0	0	Use Labor Rate.	Standard	÷				
Labor Numbering Sequence	AMBATCH - Manufacturing bi ,P	0	Default Order Type	RO - Regular production ord	9,0	0			
Material Numbering Sequence	AMBATCH - Manufacturing be ,P	0	Default Disassemble Order Type	DA - Disassembly orders	P	0			
Wip Adjust Numbering Sequence:	AMWIP - WIP Adjustment Nur ,0	0	Capable to Promise Order Type		,p	0			
* Cost Numbering Sequence.	AMCOST - MFG Cost numbe ,0	0		Include Scrap in Completio	ns-				
Disassembly Numbering Sequence	AMDIS - MFG Disassembly C ,9	0		Post Summary on Updating	GL				
Vendor Shipment Numbering Sequence	AMVSHIP - MFG Vendor Ship ,9	0		Hold Documents on Entry					
SCHEDULING				Validate Document Totals o	n En	try			
	Use Order Start Date for MRP			Default User Employee ID					
	Use Fixed Manufacturing Times			Restrict Clock Entry to Cur	ent L	Jser			
	Machine Scheduling			CLOCK Production Orders be	foré (Closin	g		
	Tool Scheduling		VENDOR SHIPMENT SETTINGS						
	Use Shill Crew Size			Hold Shipments on Entry					
Fixed Mfg Calendar ID	٩	0		Validate Shipment Total on	Cont	imat	ion		
Fixed Mlg Units.	Days 🗸		MANUFACTURING OPERATIONS	SETTINGS -					
Block Size	00:30 ~		These settings are specific to the	current branch					
			Use Default Quantity in Materi	als					
			Use Default Quantity in Move/I	Labor					

Figure: The new check box on the Production Preferences form

If the check box is selected, the manufacturing manager can click **Lock Order** and **Unlock Order** on the More menu of the *Production Order Maintenance* (AM201500) form to lock or unlock the production order.

Locking of Production Orders

When the manufacturing manager has reviewed the completed production order and needs to lock the production order to prevent all transactions except WIP adjustments on the order, the manager can click the new **Lock Order** button on the *Production Order Maintenance* (AM201500) form (see the following screenshot).

	□ N	OTES AC		FILES	CUSTOMIZATION	
Production Order Ma	aintenance	0120 //0		TILLO	CONTONNERATION	10020
RO AMP00000	6 - Productio	on of 12 c	itrus juic	ers in th	e standard con	figuration
← 🖞 🗒	∽ +	Ô	~ LOC	K ORDER		
						^
* Order Type:	RO - Regular pr	oduction orde	ers ,	0 0		
* Production Nbr.:	AMP000006 - P	oduction of '	12 citrus j	0		
Inventory ID:	CFJCITRUS - C	onfigurable ji	uicer for cit	u 🧷		
Warehouse:	WORKHOUSE -	Warehouse	for manufa	c1 🖉		
Location:	MGI - Location f	or storing ma	nufactured	it 🧷		
Order Date:	5/16/20	23				
Status:	Comple	ted				
Product Workgrou	up:					
Product Manager						
Description:	Production of 12	citrus juicers	s in the star	ndard config	juration	
GENERAL RE	EFERENCES	EVENTS	ATTRIB	UTES	TOTALS	ÿ
Qty. to Produce:	12.00					
UOM:	EA					
Qty. Complete:	12.00					
Qty. Scrapped:	0.00					
Qty. Remaining:	0.00					

Figure: The new button on the Production Order Maintenance form

The clicking of **Lock Order** causes the production order status to change to *Locked* (see the following screenshot).

	🕒 NO	TES	ACTIVI	TIES	FILES	CU	ISTOMI	ZATION	TOOLS -	
aintenance)6 - Proc	duction	n of 12	2 citru	s juic	ers in	the st	anda	rd con	figuration	۱
\$	+) ~	K	<	>	×			
RO - Reg	ular pro	duction o	orders	Ç	0				^	
AMP0000	06 - Pro	duction	of 12 cit	trus j 🔎)					
CFJCITR	US - Co	nfigurabl	e juicer	for citru	ı Ø					
WORKHO	DUSE - N	Narehou	se for n	nanufac	:1 <i>0</i>					
MGI - Loc	ation fo	r storing	manufa	ctured i	it 0					
5	5/16/202	3								
L	ocked									
up:										
Productio	n of 12 (citrus juio	cers in t	he stan	dard cor	nfigurati	on			
EFERENCI	ES	EVENTS	6 A	TTRIBL	JTES	TOT	ALS		Ŷ	
	12.00									
EA										
	12.00									
	0.00									
	0.00									
	RO - Reg AMP0000 CFJCITR WORKHC MGI - Loc EFERENCI	D NO Antenance 16 - Production CF - Regular prod AMP000006 - Prod CFJCITRUS - Co WORKHOUSE - N MGI - Location for 5/16/202 Locked up: Production of 12 of EFERENCES 12.00 EA 12.00 0.00 0.00	NOTES A Intenance I O O O O O O O O O O O O O O O O O O	NOTES ACTIVI aintenance 6 - Production of 12 citrue 16 - Production of 12 citrue 17 1 18 1 18 1 18 1 18 1 18 1 12 1 12 1 12 1 12 1 12 1 12 0 12 0 12 0 0 0	Image: Notes ACTIVITIES Additional and the standard stress of the	▷ NOTES ACTIVITIES FILES bintenance bintenance bintenance b6 - Production of 12 citrus juicers in 	NOTES ACTIVITIES FILES CU aintenance 66 - Production of 12 citrus juicers in the state 0 + 1 1 × <td< td=""><td>NOTES ACTIVITIES FILES CUSTOMI Aintenance 6 - Production of 12 citrus juicers in the standard Image: Standard Standard Image: Stan</td><td>NOTES ACTIVITIES FILES CUSTOMIZATION</td><td>NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS aintenance 06 - Production of 12 citrus juicers in the standard configuration <l< td=""></l<></td></td<>	NOTES ACTIVITIES FILES CUSTOMI Aintenance 6 - Production of 12 citrus juicers in the standard Image: Standard Standard Image: Stan	NOTES ACTIVITIES FILES CUSTOMIZATION	NOTES ACTIVITIES FILES CUSTOMIZATION TOOLS aintenance 06 - Production of 12 citrus juicers in the standard configuration <l< td=""></l<>

Figure: The new status on the Production Order Maintenance form

When the production order status is *Locked*, the **Close Order** command is available on the More menu (see the following screenshot).

Production Order Maintenance RO AMP000002 - Prod	uction of 12 citrus juicers in	the standard	configuration	NOTES ACTIVITIES FILES	CUSTOMIZATION TOOLS -
€ ≅ \$\$	+ 🗉 🖸 ~ K <	> >I ·			_
Order Type: RO - Regu Production Nbr AMP0000 Inventory ID: CFJCITRU Warehouse WORKHO Location MGI - Loc Description: Production GENERAL REFERENCE	lar production orders P Production of 12 otrus J P IS - Configurable jucer for citru USE - Warehouse for manufact tion for storing manufactured it of 12 citrus juicers in the standard correct S EVENTS ATTRIBUTES	Order Date Status Product Work Product Mana	Processing Hatel Remove Hald Plan Dinne Remove Cysan Complete Order Camplete Order	Inquiries Allocation Details Production Transactions Attributes View Schedule Production Schedule Board Reports	
Qty to Produce 1	2.00 Schedule Status	Unschedulec	Unlock Order	ProduitionTickill	
UOM EA Qty Complete 1 Qty Scrapped Qty Remaining	Scheduling Method 2.00 Constraint 0.00 Start Date 0.00 End Date	Start On 5/11/2023 5/11/2023 5/11/2023	Close Order Transactions Receive Hater can Create Labor Transaction	Materials Critical Material Set Manufale Status & Crans	
	Dispatch Priority Costing Method: Scrap Warehouse Scrap Location	Estimated Scrap Ove	Create Move Transaction Discoverible Replenishment Onarc Purchase Directory	Scheduling Schedulin Firm Linic Firm	

Figure: The Close Order command on the Production Order Maintenance form

If the manufacturing manager needs to capture additional labor, material, or move transaction costs on the production order, they can click **Unlock Order** on the More menu (see the following screenshot) to change the status of the order back to *Completed*.



Figure: The new command on the Production Order Maintenance form

Viewing of Locked Production Orders

To support the viewing of locked production orders, the **Locked** tab (see the following screenshot) has been introduced on the *Production Order Maintenance* (AM2015PR) list of records. This tab displays all of the production orders that have the *Locked* status.

Production On さッ+	der Maintenance ∂ HI 🗷							CUSTOMIZAT	ION + TC	OLS +
Order Type		,Q Warehou	150		ø					
ALL RECORDS	OPEN PLANNED	RELEASED IN PROCE	SS COMPLETED	SLOSED	CANCELLED	ON HOLD	LOCKED			
Drag column header	here to configure lifter						Y			Q
문 & D Order Type	Production Inventory II Nbr.	D Warehouse	Status	Start Date	End Date	Qty. to Produce	Qty. Remaining	* Qty. Complete	Ot Scrappe	y. Sched
> 0 D RO	AMP000006 CEJCITRU	US WORKHOUSE	Locked	5/16/2023	5/16/2023	12.00	0.00	12.00	0.00) Unsc

Figure: The new tab on the Production Order Maintenance list of records

Mass Locking or Unlocking of Production Orders

The *Lock Production Orders (AM517000)* form has been created to provide the ability to lock and unlock multiple orders at the same time (see the following screenshot). The default action is *Lock Order*; with this action selected, the table displays production orders with the *Completed* status. When the selected action is *Unlock Order*, the table displays production orders with the *Locked* status.

Lock Production	Orders							CUSTOMIZATION	TOOLS .
O PROCE	SS PROCESS A	u o - +-	x v						
Action	Unlock	Order							
B B D D Order Type	Production Nbr.	Inventory ID	• Warehouse	Oty. to Produce	Qty. Complete	WIP Balance	WIP Variance Account		
> 0 D 🗆 RO	AMP000002	CEJCITRUS	WORKHOUSE	12.00	12.00	-17.33	51500		

Figure: The new Lock Production Orders form

The user clicks **Process** to lock or unlock selected production orders or clicks **Process All** to lock or unlock all listed production orders. After the locking of production orders, the status of processed production orders that previously had a status of *Completed* is updated to *Locked*. After the unlocking of production orders, the status of processed production orders that previously had a status of *Locked* is updated to *Locked* is updated to *Completed*.

Additional Information

For details on creating production orders, see *Production Processing: General Information*.

Manufacturing: Simplified Creation of a New BOM with the Edit Button

In Acumatica ERP Manufacturing Edition, improvements have been made related to the Edit buttons that are next to the **Default BOM ID** and **Planning BOM ID** boxes on the **Manufacturing** tab of the *Stock Items* (IN202500) and *Item Warehouse Details* (IN204500) forms when both of these boxes are empty. These improvements give users the ability to create a new bill of material (BOM) by clicking the Edit button.

In Acumatica ERP Manufacturing Edition 2023 R2, the *Bill of Material* (AM208000) form always opens when a user clicks the Edit button next to the **Default BOM ID** or **Planning BOM ID** box on the *Stock Items* and *Item Warehouse Details* forms. When both of these boxes are empty and the user clicks the Edit button next to either box, the *Bill of Material* form opens for the creation of a new record. When the user clicks the Edit button next to either box and there are values in one box or both boxes, the *Bill of Material* form opens and displays the applicable BOM record.

Creation of a New BOM for a Stock Item

When a manufacturing engineer needs to create a new BOM after adding a part as a stock item to the *Stock Items* (IN202500) form, they can click the Edit button next to the **Default BOM ID** or **Planning BOM ID** box (see the following screenshot). The system opens the *Bill of Material* (AM208000) form so that the manufacturing engineer can create the new BOM.

Stock Items CFJFRUIT - Configu	rable juicer for fruit and vegetables	NOTES ACTIVITIES
	+ 🗇 🗘 🗸 I< < > >I …	
* Inventory ID:	CFJFRUIT - Configurable juicer for fru O Product Workgroup:	م
Item Status:	Active Product Manager:	م
Description:	Configurable juicer for fruit and vegetables	
GENERAL PRICE/CC	DST MANUFACTURING WAREHOUSES VENDORS ATTRIBUTES P/	ACKAGING CROSS-REFERENCE
PRODUCTION ORDER DE	EFAULTS SCRAP	
Default BOM ID:	Scrap Warehouse:	0 0
Planning BOM ID:	Scrap Location:	0
Configuration ID:		
Dflt Mark For:	Production 🗸 Chec	ck for Material Availability
	✓ Make to Order Item	
	Quantity Round Up	
	CTP Item	

Figure: The Edit buttons next to the boxes on the Stock Items form

Creation or Assignment of a Warehouse for the Item

When a manufacturing engineer needs to create or assign a specific warehouse for a BOM, they add the part as a stock item and then they can create a new record on the *Item Warehouse Details* (IN204500) form. When the manufacturing engineer creates the new item-warehouse record, they specify the necessary settings on the **Manufacturing** tab and then click the Edit button next to the **Default BOM ID** or **Planning BOM ID** box (see the following screenshot). The system opens the *Bill of Material* (AM208000) form so that the manufacturing engineer create the new BOM.

Item Warehouse Details									
E \$\$\$ +	Ū () ~	K K >	· >I						
* Inventory ID: * Warehouse:	CFJCITRUS	- Configurable ju SE - Warehouse f	icer for c ク or manut ク	Product Workgroup:	Override Product Manage	er			
Status:	Active		~	Product Manager:			0		
GENERAL REPL	ENISHMENT	PRICE/COST	MANUF	ACTURING					
GENERAL			so	CRAP					
Default BOM ID:	BOM000001 - A	bill of mate 🔎 d	1		Scrap Override				
Planning BOM ID:		ه م	1 5	Scrap Warehouse:		0			
Configuration ID:			009	Scrap Location:		0			
PLANNING SETTINGS	3								
Safety Stock:	20.00								
Reorder Point:	0.00								
Min Order Qty:	0.00	Override							
Max Order Qty:	0.00	Override							
Lot Size:	0.00	Override							
MFG Lead Time:	0	Override							
Transfer Lead Time:	0	Override							
Days of Supply:	0	Override							

Figure: The Edit buttons next to the elements on the Item Warehouse Details form

Creation of a Planning BOM for an Existing Item

When a planning manager needs to create a planning BOM for an existing item that does not have a planning BOM assigned to it, they can click the Edit button next to the **Default BOM ID** or **Planning BOM ID** box on the *Stock Items* (IN202500) form. The system opens the *Bill of Material* (AM208000) form so that the planning manager can create the planning BOM.

Creation of a Planning BOM for an Existing Item for a Specific Warehouse

A planning manager may need to create a planning BOM for an existing item in a specific warehouse that does not have a planning BOM assigned to the warehouse. In this case, on the *Item Warehouse Details* (IN204500) form, they can click the Edit button next to the **Default BOM ID** or **Planning BOM ID** box. The system opens the *Bill of Material* (AM208000) form so that the planning manager can create the planning BOM.

Additional Information

For information on bills of materials and stock items, see Bills of Material: General Information.

Mobile: Enhancements in the Mobile App

In the Acumatica mobile app connected to an instance of Acumatica ERP 2023 R2, the following enhancements have been implemented:

- In previous version of Acumatica ERP, user-defined fields of the selector type were displayed as text edit fields. Now user-defined fields of the selector type are displayed properly as selectors in the mobile app.
- Previously, users could not sort records on the list view screens of the mobile app. Now users have the ability to sort records on the list view screens by values of fields displayed in the list. To enable sorting, the user taps **Sort By** at the top of the list (Item 1 in the following screenshot) and then selects the a field by which the records should be sorted (Item 2 in the following screenshot). After the records are sorted, the user can select whether the sorting should be ascending or descending by tapping the icon at the top of the screen (Item 3 in the following screenshot).

8:37 📫	₹41	8:37 📫	•41	8:37 🗋	▼⊿ 🛯
← Sales Orders	۹ :	e Sales Orders	9. I	← Sales Orders	۹. :
ALL	MY SALES ORDERS			ALL	MY SALES ORDERS
Sort By		To De		Customer Name =	_
000057	4,100.00	000057	8,100,60	000057	4,100.00
Thai Food Restaurant Invoiced	Jan 7, 2023	(for Food Fisher with) (n/kolo	an y ans	Thai Food Restaurant Invoiced	Jan 7, 2023
000059	2,600.00	000059	17.11.102	000033	2,300.00
HM's Bakery & Cafe Invoiced	Jan 9, 2023	HINAL ELIKING II Comm	-0.007^{21}	Morning Cafe Completed	Jan 31, 2023
000061	6,700.00	000061	н.	000029	56.45
GoodFood One Restaurant Invoiced	Jan 15, 2023	According to an en-	11.0073	Individual Retail Customer Open	Jan 29, 2023
000063	4,100.00	Sort By	-2-	000059	2,600.00
FourStar Coffee & Sweets Sho Invoiced	Jan 18, 2023	Customer Name		HM's Bakery & Calle Invoiced	Jan 9, 2023
000113	664.50	Date		000004	300.33
Allen's Bakery Completed	Jan 29, 2023	Order Nbr.		HM's Bakery & Cafe Completed	Nov 2, 2022
000001 FourStar Coffee & Sweets Sho Completed	ap Jan 🕂	Status		000003 HM's Bakery & Cafe Completed	Jan to

Figure: Sorting in the mobile app

Payroll: Enhancement to Overtime Rules

Starting in Acumatica ERP 2023 R2, an administrative user can create an overtime rule for a particular day of consecutive work in a workweek. Also, multiple regular time codes can now be associated with an overtime code, and the system will use the regular time code with the highest rate when calculating overtime pay for employees.

Changes to the Overtime Rules Form

On the Overtime Rules (PR104000) form, the following changes have been made to support the creation of overtime rules of the new type.

In the **Type** column of the table, the *Consecutive* option is now available for selection. An overtime rule of the *Consecutive* type can be applied only on a particular day of consecutive work in a workweek, and this day is defined by the number (from 0 to 7) specified in the **Number of Consecutive Days** column. The new elements are shown in the following screenshot.

(Overtim	ne Rules							CUSTOMIZATION	N TOOLS -
	ð B	v) +	X ⊨I X Y							
8	Active	*Overtime Rule	Description	* Disbursing Earning Type	Multiplier	* Туре		* Threshold for Overtime (Hours)	Day of Week	Number of Consecutive Days
Z	\checkmark	CONSEC7	7th consecutive day	OT	1.50	Consecutive	~	0.00		7
	\checkmark	CONSEC7DT	Over 8 hours on the 7t	DT	2.00	Daily		8.00		7
	\checkmark	DAILY8	Daily over 8 hours	OT	1.50	Consecutive		8.00		
	\checkmark	SUNDAY8	Sunday over 8 hours	DT	2.00	Daily		8.00	Sunday	
	\checkmark	WEEKLY40	Weekly over 40 hours	OT	1.50	Weekly		40.00		

Figure: New elements on the Overtime Rules form

Overtime rules of the *Consecutive* type are applicable only to employees who are paid hourly on a weekly or biweekly basis. For each employee, the number of working days in a workweek is defined through the work calendar assigned to this employee on the *Employee Payroll Settings* (PR203000) form. The counter of the days of consecutive work starts on the first day of the workweek and is reset to 0 at the start of each workweek.

An overtime rule of the *Consecutive* type is not applicable if the employee reported no working hours for any day of the specified number of consecutive days starting from the first day of the workweek.

A user can create as many overtime rules of the *Consecutive* type as they need. For example, if a company pays their employees one-and-a-half times their regular rate of pay for eight hours on the seventh consecutive day in a workweek and double-time for more than eight hours on the seventh consecutive day in a workweek, the administrative user should create two overtime rules with the following settings.

Disbursing Earning Type	Multiplier	Туре	Threshold for Over- time (Hours)	Number of Consec- utive Days
<overtime earning<br="">type></overtime>	1.5	Consecutive	0	7
<double earn-<br="" time="">ing type></double>	2.0	Consecutive	8	7

The system will not allow the creation of a duplicate overtime rule. Overtime rules are considered as duplicates if they are active and have the same type, disbursing earning type code, threshold for overtime, day of the week, number of consecutive days, state, union, and project.

In the case of conflicting overtime rules, the system will always use the overtime rule that produces the highest pay rate.

Changes to the Earning Type Codes Form

Previously, in the Summary area of the *Earning Type Codes* form, the **Regular Time Type Code** box appeared if the user selected *Overtime* in the **Earning Type Category** box. In Acumatica ERP 2023 R2, a new tab, **Regular Time**, appears instead of the **Regular Time Type Code** box, as shown in the following screenshot.

Earning Type Codes OT - Overtime			NOTES	FILES	CUSTOMIZATION	TOOLS -
🖹 🖍 🕂 🗓	ĵ → K < >	>				
* Code:	OT	Q		Active	1	^
* Description:	Overtime			🗹 Contri	butes to WCC Calcul	ation
Earning Type Category:	Overtime	~		Accrue	e Time Off	
Multiplier:	1.50					
REGULAR TIME US	TAX AND REPORTING PROJ	ECTS GLACCOUNTS				
() + × (⊷)	X					
🖹 *Code De	escription	Earning Type Category				
HL P	Public Holidays	Time Off				
PW P	Piecework	Piecework				
> RG R	Regular Hours	Wage				

Figure: The Regular Time tab of the Earning Type Codes form

By using the **Regular Time** tab, an administrative user can associate multiple earning type codes of the *Wage, Time Off*, and *Piecework* categories with one earning type of the *Overtime* category. If those regular earnings are used in one paycheck, the system will use a regular rate with a weighted average when calculating the overtime rate. Earnings of the *Piecework* type will be included in the calculation of an average regular rate as well if the number of hours worked is specified for those earnings in the paycheck so that the system can calculate an hourly rate; otherwise, only regular hours will be used.

Payroll: Other Improvements

In Acumatica ERP 2023 R2, improvements to the UI have been introduced, as described below.

UI Changes on the Paychecks and Adjustments Form

Previously, users could use the **Hold** check box in the Summary area of the *Paychecks and Adjustments* (PR302000) form to put a paycheck on hold if they needed to edit its settings and prevent it from being released.

In Acumatica ERP 2023 R2, the **Hold** check box has been replaced with the **Put on Hold** command. The command has been added to the More menu (under **Corrections**) on the *Paychecks and Adjustments* form, as shown in the following screenshot.

Paychecks and Adjustments. Adjustment 000539 - H	lanna Gimmet				NOTES FILES TOOLS .
4 3 5 V	+ 🗇 🛛 🕹	> > D ~ ·	9.		
Type A Reference Nbr 0 Status F Pay Group C Pay Penod 0 • Posting Penod 0	Adjustment v 100539 p Pending Payment CSTRWEEKLY - Constr 11-2020 p 11-2020 p	Employee: • Payment Method • Cash Account Penod Start Penod End Transaction Date Description	Processing Calculate Add to Payment Batch Release Printing and Emailing	Corrections and Favoration Put on Hold	270.00 0.00 0.00 270.00
	DEDUCTIONS TA			ON CERTIFIED PROJECT FINA	NCIAL
Branch *Date	"Code Description	*Location Ho	urs Units Unit Type R	ate Manual Amount Accoun Rate	t Subaccount Project P
> PRODWH 12/22/2019	OT Overtime	BELLEVUE 4	00 Hour 67 !	50 🗌 270 00 69500	000-000

Figure: New command on the Paychecks and Adjustments form

Platform: Ability to Execute Actions for Specific Lines in Import Scenarios

In Acumatica ERP 2023 R2, during the mapping of an import scenario, a user can specify the rows of the imported file for which the actions should be executed.

Types of Action Execution

When a user imports documents with detail lines (for example, invoices and shipments), the system executes all instructions in the mapping of the scenario, including actions, for each detail line of each document.

In most cases, certain actions should be executed only once for a document. Suppose that the user wants to update existing invoices by importing prices from a file. During the import, for each of the invoices, the system should put the invoice on hold, update its detail lines by using the data from the file, and then remove the invoice from hold.

Another example is the approval of documents with detail lines. When the system imports these documents, it should invoke the **Approve** command (and the underlying action) only after all the detail lines of a document have been imported. Therefore, the system should import a document, import all its detail lines, remove it from hold (once), and then invoke the **Approve** command (also once). The system cannot approve the document after each line has been imported, because once the document has been approved, it is not possible to add new detail lines to it.

To ensure that the documents are processed correctly, the user can now specify how the system should execute a particular action by using the new **Execute Action** column on the **Mapping** tab of the *Import Scenarios* (SM206025) form. The following options are available:

- For Each Record
- Once, for First Detail Line
- Once, for Last Detail Line

The following screenshot shows the mapping of a scenario that import accounts receivable invoices. The instructions in the mapping indicate that the system should perform the actions as follows:

- <Action: Cancel> (system action): For every row in the file—that is, for each detail line of each invoice (see Item 1 in the screenshot)
- <Action: Hold> (PutOnHold): For only the first detail line of each invoice (Item 2)
- <Action: Remove Hold> (ReleaseFromHold): For only the last detail line of each invoice (Item 3)

Impor	t Scer ort A	narios R Invoi	ces			🗅 NOTES	FILES (1)	CUSTOMIZATION TOOLS -
, ,	Ē.	Ē	v + ı̇́ 0 ∨		N			
* Na * Sc MAI	ime: reen N	Name: G SOL	Import AR Invoices Invoices and Memos	Active Make V Site Map Title:	ïsible on the	UI 🗌 Simple Scenario		~
0	+	×	INSERT Show All Comma	ands 🔹 🛧 🥠 INSERT FROM	SUBSTITU	TION LISTS H		
80		Active	* Target Object	* Field / Action Name	Commit	Source Field / Value	Ignore Error	Execute Action
> 0			Invoice Summary	<key: doctype=""></key:>		=[Document.DocType]		
0			Invoice Summary	<key: refnbr=""></key:>		=[Document.RefNbr]		1
0		✓	Invoice Summary	<action: cancel=""></action:>				For Each Record
0		\checkmark	Invoice Summary	Туре		Туре		
0	D		Invoice Summary	<action: cancel=""></action:>				For Each Record
0	D	\checkmark	Invoice Summary	Reference Nbr.	\checkmark	Reference Nbr.		
0		\checkmark	Invoice Summary	Customer	\checkmark	Customer ID		
0		\checkmark	Invoice Summary	Date	\checkmark	Date		
0		\checkmark	Invoice Summary	Post Period	\checkmark	Post Period		2
0		\checkmark	Invoice Summary	<action: hold=""> (PutOnHold)</action:>	✓			Once, for First Detail Line
0		\checkmark	Details	<line number=""></line>		=-1		
0	D		Details	Branch		Line Branch		
0		\checkmark	Details	Ext. Price	V	Ext. Price		
0		\checkmark	Details	Account	V	Account		
0		~	Details	Subaccount	V	Subaccount		
0		✓	Invoice Summary	Amount		Balance		3
0		Image: A start of the start	Invoice Summary	<action: hold="" remove=""> (ReleaseFromHold)</action:>	~			Once, for Last Detail Line
0			Invoice Summary	<action: save=""></action:>				Once, for Last Detail Line

Figure: The mapping with the types of action execution

By default, the value in the **Execute Action** column is *For Each Record*. (This was the system behavior in Acumatica ERP 2023 R1 and earlier versions.)

Platform: Availability of Generic Inquiry Parameters in OData

In previous versions of Acumatica ERP, generic inquiries with required parameters could not be exposed through OData. In Acumatica ERP 2023 R2, an implementation consultant or a developer can work with generic inquiries with parameters through OData Version 3.0, as described in the following sections.

Retrieval of the List of Generic Inquiries and Their Parameters

An implementation consultant or a developer retrieves the list of generic inquiries that are exposed through OData with their fields and parameters as described in *Access to Generic Inquiries Through OData: General Information*. For example, the following request retrieves the list of generic inquiries exposed through OData from the *U100* tenant of the *2023R2* local instance of Acumatica ERP.

```
GET https://localhost/2023R2/odata/U100/$metadata
```

If the instance includes generic inquiries with parameters that are exposed through OData, the response includes the FunctionImport items, as shown in the following screenshot. A FunctionImport item specifies the name of the exposed generic inquiry that is used in an OData request and the list of parameters.



Figure: FunctionImport item

Definition of the Parameter Values Through OData

To specify the values for the parameters of a generic inquiry and obtain the result of the generic inquiry, the implementation consultant or developer specifies the values of the parameters of the generic inquiry in the parameters of the HTTP request.

For example, the following request obtains the results of the *DB-StorageDetailsByItemWarehouseLocation* generic inquiry for the *WHOLESALE* warehouse.

 \square \times

```
GET https://localhost/2023R2/odata/U100/
DBStorageDetailsByItemWarehouseLocation_WithParameters
?Warehouse=WHOLESALE
```

Definition of the Parameter Values in Excel

The implementation consultant can obtain the results of the generic inquiry with parameters in Microsoft Excel. The implementation consultant loads the results of the generic inquiry to an Excel workbook, as described in Access to Generic Inquiries Through OData: To Access an Exposed Inquiry in Microsoft Excel. In the **Navigator** dialog box, which opens when the consultant configures Microsoft Excel to obtain the results of the generic inquiry, the consultant can specify the values of the parameters of the generic inquiry, as shown in the following screenshot.

<u>م</u>					Show
Select multiple items	Warehouse (op	tional)			
play Options 🔹 🗋	WHOLESALE				
III BI-LeadConversion	Apply	Clear			
III BI-Leads					
BI-Opportunities	DBStorage	DetailsByltem	Warehouse	Location_WithPara	m [
III BI-OppStages	InventoryID	WarehouseID	LocationID	InventoryDescription	Inventory
CR-CampaignInvoices	APJAM08	WHOLESALE	L1R1S1	Apple jam 8 oz.	c86842ee
	APJAM08	WHOLESALE	L1R1S2	Apple jam 8 oz.	c86842ee
	APJAM08	WHOLESALE	L1R2S1	Apple jam 8 oz.	c86842ee
UB-CashByPeriod	APJAM08	WHOLESALE	L1R2S2	Apple jam 8 oz.	c86842ee
DB-StorageDetails	APJAM08	WHOLESALE	L2R2S1	Apple jam 8 oz.	c86842ee
DB-StorageDetailsByItemWarehouseLocat	APJAM08	WHOLESALE	L2R2S3	Apple jam 8 oz.	c86842ee
PM-Project Summary	80MALAA	WHOLESALE	L2R3S1	Apple jam 8 oz.	c86842ee
PM-Revised Contract vs Approved CO	APJAM08	WHOLESALE	L3R1S1	Apple jam 8 oz.	c86842ee
	APJAM08	WHOLESALE	L3R1S2	Apple jam 8 oz.	c86842ee
PM-Vendor Commitment Details	APJAM08	WHOLESALE	L3R2S1	Apple jam 8 oz.	c86842ee
f_x CRCampaignInvoices_WithParameters	APJAM08	WHOLESALE	L3R2S2	Apple jam 8 oz.	c86842ee
fx CRCampaignSalesOrders_WithParameters	APJAM08	WHOLESALE	L3R2S3	Apple jam 8 oz.	c86842ee
f_x DBCashByPeriod_WithParameters	APJAM08	WHOLESALE	MAIN	Apple jam 8 oz.	c86842ee
fr DBStorageDetails WithParameters	APJAM32	WHOLESALE	L1R3S2	Apple jam 32 oz	4b2f35bc
fr. DPStorageDetailsPulternWarehousel.com	APJAM32	WHOLESALE	L2R3S2	Apple jam 32 oz	4b2f35bc
	APJAM32	WHOLESALE	L3R3S2	Apple jam 32 oz	4b2f35bc
Jx PMProjectSummary_WithParameters	APJAM32	WHOLESALE	MAIN	Apple jam 32 oz	4b2f35bd
<i>fx</i> PMVendorCommitmentDetails_WithPara	<				>

Figure: Inquiry parameter in Excel

Platform: Access to OData Version 4 Without User Role

In previous versions of Acumatica ERP, a user needed to have the *OData4 User* user role to access the data exposed through the OData Version 4 protocol, such as the data displayed in the reports that use OData Version 4 to retrieve data from Acumatica ERP. These reports are usually supplied in customization packages. However, customizers cannot include the granting of the role for all users of the report in the customization project. Therefore, after the publication of the customization project, a system administrator had to manually grant the *OData4 User* role to each user who would use the report.

In Acumatica ERP 2023 R2, through the OData Version 4 protocol, users have access to the same data that is visible to them via UI according to their access rights.

Platform: Removal of Automation Steps

In Acumatica ERP 2023 R1, the previously provided automation steps and automation definitions have been removed. However, custom (that is, created from scratch) automation steps and automation definitions still worked.

In Acumatica ERP 2023 R2, the automation step functionality is completely deprecated, and the *Automation Steps* (*SM205000*) and *Automation Definitions* (*SM205010*) forms are no longer available.

Automation Changes

Customizations that use automation steps for any forms will no longer work. Customizers 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: Removal of Previously Configured External Identity Providers

In previous versions of Acumatica ERP, the *Security Preferences* (SM201060) form was used to configure external identity providers. In Acumatica ERP 2023 R2, the *Security Preferences* form can no longer be used to configure external identity providers. Any providers that were configured on this form in a previous version of Acumatica ERP will be removed and will not be visible on this form when the system is upgraded to Acumatica ERP 2023 R2. Further, any custom external identity providers that were configured by a customizer using the following classes that were removed will also stop working:

- PXGoogleOAuthClient, which controls authentication with Google accounts
- PXWindowsLiveClient, which controls authentication with Microsoft accounts
- PXOAuth2Client, from which custom providers can be derived

Now the *OpenID Providers* (SM303020) form is used to configure these external identity providers. Any providers that were configured on the *Security Preferences* form in a previous version of Acumatica ERP should be manually configured on the *OpenID Providers* form before the upgrade to Acumatica ERP 2023 R2. However, if Google was configured as an external identity provider on the *Security Preferences* form in a previous version of Acumatica ERP, then its provider settings and users will be automatically migrated to the *OpenID Providers* form when the system is upgraded to Acumatica ERP 2023 R2.

Platform: Other Improvements

In Acumatica ERP 2023 R2, improvements to the UI have been introduced, as described below.

Updates to the Built-In Infotips

In Acumatica ERP 2023 R2, the look and feel of the built-in infotips has been improved. The title of each section of the infotip pane, such as **Related Information**, is now formatted in bold type, and the line under each title has been removed. Further, the font size of the links has been increased. As an example of these changes, the following screenshot shows the infotip pane for the **Display Name** box on the *OpenID Providers* (SM303020) form.

OpenID Providers	S > X Q ~ VIEW REDIRECT URI VIEW P	ROVIDER METADATA ····	Display Name The name of the provider to be displayed on the Sign-In page of Acumatica ERP.
Display Name: Isauer Memfler Elsent ID Clant Scattl Clant Scattl Soper for User Identity Inham Login URI	D ICON Re Nob CCOPY	ommended Suke Writen 100ps. Heiger 100ps. Innt er mage forspitner. Dissense	Related information Configuration of an Open ID Flowder Sign-im with Open ID Identity Providers Form Reference OpenID Providers (SM303020) Help Dashboard Acumatica Educational Resources Acumatica News
		Drag and drop the image here to upload it	DAC Details
AUTHENTICATION SETTINGS	IOSER BWOING RULES USER CREATION RULES ROLE M	7799 Anghung (Ku) (FB	OldCHrovider Name
Authorization Endpoint: Flow Token Endpoint ZVK Set Location	Authorization Code Flour -		

Figure: The enhanced appearance of an infotip

For information about additional improvements to the content of the infotip pane, see *Usability: Enhanced Delivery* of *Built-In Infotips*

Projects and Construction: Inclusive Taxes in Pro Forma Invoices and Project Quotes

In Acumatica ERP 2023 R2 multiple enhancements have been made to provide support for inclusive taxes in project-related documents and reports. For details, see the following sections.

Inclusive Tax Support for Projects

In previous versions of Acumatica ERP, the usage of inclusive taxes with the *Inclusive Line-Level* or *Inclusive Document-Level* calculation rule was not supported in pro forma invoices. The system showed an error if a user had run project billing or tried to release an existing pro forma invoice to which inclusive taxes were applicable. Due to these limitations, users were forced to use direct AR invoices in projects and were not able to use pro forma invoices, which are draft invoices that can be edited without affecting accounts receivable, thus minimizing corrections in the accounts receivable invoices.

Also, in previous versions, in project quotes on the *Project Quotes* (PM304500) form, users could not use taxes with the *Inclusive Line-Level* or *Inclusive Document-Level* calculation rule or taxes with the *Gross* tax calculation mode.

Acumatica ERP 2023 R2 fully supports inclusive sales tax and VAT calculation. Also, inclusive tax information is displayed in the following documents and reports:

- Pro forma invoices on the Pro Forma Invoices (PM307000) form
- Project quotes on the Project Quotes (PM304500) form
- The following project and construction reports:
 - AIA Report (PM644000)
 - AIA Report with Quantity (PM644500)
 - Project WIP (PM651500)
 - Project WIP Detail (PM652500)
 - Construction Bonding Report (PM650500)
 - Project Profit Analysis (PM656000)
 - Project Performance (PM654000)
 - Projects Pending Billing (PM706300)

Inclusive Taxes in Pro Forma Invoices

A user can now run project billing for a project for which the **Create Pro Forma Invoice on Billing** check box is selected on the *Projects* (PM301000) form to prepare pro forma invoices that are subject to inclusive taxes. In the prepared pro forma invoice, actual amounts now include inclusive tax amounts, as shown in the following screenshot.

Pro Forma Invoice PF00046 - Fix ← 🕄 🗒	s xed Price Proj ທີ	ect - milestone by	v complete ≻I REMC	d hours Ove Hold						
Reference Nbr.:	PF00046 ,0	Project:	FIXEDP0	6 - Fixed Price F	Project - milestor	0	Progress Billi	ng Total:	1,000.00]
Status:	On Hold	Customer:	UPWARE	MOBI - Upward	mobility	0	Time and Ma	terial Total:	0.00	
* Invoice Date:	7/18/2023 ~	* Location:	MAIN - P	rimary Location	Q		Tax Total:		19.61]
* Post Period:	07-2023 <i>P</i>	* Currency:	USD 🔎	1.00	VIEW BASE		Invoice Total:		1,000.00	
Customer Ord		Currency Rate fo	r USD				Retainage To	tal:	0.00	
Description:	Milestone billing f	or project					Amount Due:		1,000.00	
PROGRESS BIL	LING TIME AN	ND MATERIAL TAX	ES FINA	NCIAL APF	PROVALS AI	DDRES	SSES			
🖹 * Tax ID		Tax Rate	Taxable Amount	Tax Amount	Retained Taxable	Ret	tained Tax			
> INCL		2.000000	980.39	19.61	0.00		0.00			

Figure: Pro forma invoice with inclusive taxes

On release of the accounts receivable document created based on the pro forma invoice, the system updates the revenue budget lines of the project that have the same project budget key that is specified in the lines of the accounts receivable document being released.

UI Changes on the Projects (PM301000) Form

On the **Revenue Budget** tab of the *Projects* (PM301000) form, the **Inclusive Tax Amount** column has been added. The system inserts the values in this column on release of accounts receivable invoices, credit memos, and debit memos related to the revenue budget lines of the selected project.

The **Inclusive Tax Amount** column contains the full amount of the calculated inclusive tax regardless of the state of the **Retain Taxes** check box on the **General** tab of the *Accounts Receivable Preferences* (AR101000) form.

The **Inclusive Tax Amount** column is hidden by default. For a project with inclusive taxes that have progress billing by amount, a project manager can review the inclusive tax amount for each revenue budget line. To do this, the project manager should add the **Inclusive Tax Amount** column to the table by using the **Column Configuration** dialog box, as shown in the following screenshot.

* Project ID: Customer	FIXEDP06	Fixed Price Project - mile: P State OBI - Upwardmobility P 0 E Eixed Price Project miles 2	us: Active Actu Actu	al Income al Expensi	1,500.00 es. 480.00			20
* Description	Fixed Price	Project - milestone by completed hours	Column Configuration				×	
Currency Rate for Budge	t: USD	1.00 * VIEW BASE	Available Columns	Q	Selected Columns	Q		
SUMMARY TASKS	REVENUE BUDO	SET COST BUDGET BALANCE	Budget Type		Files	Ť.		EMPLO
Project Task:	EW TRANSACTIONS	א ⊡ Group: ⊢ו ⊠ L	Inventory ID	→ +	Project Task Account Group Description		in ili	
🖻 🕛 📋 *Project Task	*Account Group	Description			Original Budgeted Quantity UOM			Draft Invoice Quantity
O D 01TASK	REVENUE	Contract amount			Unit Rate		- 1	0.00
> 🛛 🗋 02TASK	REVENUE	Second part of work for fixed-price pro			Revised Budgeted Amount Revised Budgeted Quantity Revised Budgeted Amount			0.00

Figure: Inclusive Tax Amount column in the Column Configuration dialog box

With this column added to the table, the project manager can analyze how the calculated taxes affect the calculation of the **Performance (%)** and **Completed (%)** values in the revenue budget line. The user can also review the total of the **Actual Amount** and **Inclusive Tax Amount** for the revenue budget lines in the project reports described in the *Changes to Projects and Construction Reports* section below.

Project Balance Recalculation

On the *Recalculate Project Balances* (PM504000) form, the **Recalculate Inclusive Taxes** check box has been added. By default, this check box is selected, indicating that the system will recalculate the inclusive tax amounts in the revenue budget lines of the projects for which a user runs the recalculation process.

Recalculate Project Balances											
C	් ආ Process process all ් v ⊨ 🗷										
	Recalculate Project Balances										
		ecalcu	late Unbilled Summa	ry							
		ebuild	Commitments								
		ecalcu	late Draft Invoice Am	ount and Quantity							
	R	ecalcu	late Change Orders								
	Z R	ecalcu	late Inclusive Taxes								
8			Project ID	Description	Customer	Status	Start Date	End Date			
>	0		2017PROG01	Prof Services, Progress Billing for Widget	WIDGETBUY	Completed	4/3/2017	4/28/2017			
	D C		BUDGETBYM	6 month project with period tracking	DIGITECHPR	Active	3/1/2019	9/1/2019			
) C		CSTRCERTIF	Certified Payroll Example Project	BAKER-DEVE	Active	8/15/2020				
	0		CSTRDEV	Palm Estates - Developer Project Example	CARRDEV	Active	8/1/2020	5/30/2021			
	D [ם נ	CSTR-ELEC	840 Industrial Park Building 4	DACITYCONS	Active	12/1/2022				
	0 C		CSTRHBCUS	Flagler Custom Home - Custom Home Proj	FLAGLER	Active	8/10/2020	6/30/2021			
) C		CSTRHOTEL	The Beach Hotel and Condos - Progress Bi	EQUGRP	Active	7/1/2020	6/30/2021			
	0		CSTRMEPJOB	MEP Restaurant - MEP Project Example	MEPVENTURE	Active	8/11/2020	2/19/2021			
	0		CSTRQTY	Heather Glen Phase I	CARRDEV	Active	3/12/2022				
) [<u>CSTRREST</u>	Italian Restaurant - T&M Billing Example	ITALIANCO	Active	8/5/2020	4/30/2021			
) C		CSTRSUB	Eastgate Strip Mall - Subcontractor Job Ex	BNRCONTRAC	Active	9/18/2020	2/15/2021			
	0		FIXEDP01	Fixed Price project for Brasskey Bar - miles	BRASSKEY	Completed	7/1/2013	7/15/2013			
	0	ם נ	FIXEDP04	Consulting project - Gold River Taxi with ad	GOLDRIVER	Completed	8/5/2013	8/30/2013			
) [FIXEDP05	Fixed Price Project - milestones recorded b	VIDEOCITY	Active	6/14/2018	8/31/2018			
) [FIXEDP06	Fixed Price Project - milestone by complete	UPWARDMOBI	Active	6/14/2018	10/31/2018			

Figure: Recalculation of the inclusive taxes in project balances

With this check box selected, users are able to eliminate possible discrepancies that may occur after a system upgrade or due to inconsistent data import or changes to the project budget structure. The recalculation process clears the **Inclusive Tax Amount** values in the revenue budget lines of the selected project or projects, and recalculates the total amount of the project-related AR invoices, credit memos, and debit memos related to these projects.

Changes to Project Quotes

Starting in Acumatica ERP 2023 R2, support for inclusive taxes and the *Gross* tax calculation mode has been added for project quotes created on the *Project Quotes* (PM304500) form. These changes do not affect the conversion of project quotes to projects because inclusive taxes are not copied from a project quote to the resulting project.

Changes to Project and Construction Reports

The following values in the project and construction reports now include the inclusive tax amounts along with the actual amounts:

- In the AIA Report (PM644000) and AIA Report with Quantity (PM644500) reports:
 - Total Completed & Stored to Date (on the Application and Certification for Payment page of the reports)
 - From Previous Application, This Period, Total Completed and Stored to Date (on the *Continuation Sheet* page of the reports)
- In the Project WIP (PM651500) report: Period Billings and Billings to Period
- In the Project WIP Detail (PM652500) report: Period Billings and Billings to Period
- In the Construction Bonding Report (PM650500) report: Billed to Date and Period Billings

- In the Project Profit Analysis (PM656000) report: Billed to Date
- In the *Project Performance* (PM654000) report: **Work Billed**
- In the Projects Pending Billing (PM706300) report: Billed (%)

Other Enhancements

If the *Net/Gross Entry Mode* feature is enabled on the *Enable/Disable Features* (CS100000) form, in the projects for which the **Create Pro Forma Invoice on Billing** check box is selected on the *Projects* (PM301000) form, the system will ignore the *Gross* and *Net* tax calculation modes that are specified for the customer on the *Customers* (AR303000) form. It will instead use the *Tax Settings* tax calculation mode in the pro forma invoices that are created during project billing.

In accounts receivable documents that are entered in migration mode, the system calculates taxes based on the tax zone and tax category specified in these documents. On release of these accounts receivable documents, the system will update the values in the **Inclusive Tax Amount** column on the **Revenue Budget** tab of the *Projects* form.

Upgrade Notes

If a tax with the *Inclusive Line-Level* or *Inclusive Document-Level* calculation rule is configured on the *Taxes* (TX205000) form, for each project with the **Create Pro Forma Invoice on Billing** check box cleared on the Summary tab of the *Projects* (PM301000) form, the system will notify the users that the recalculation of the project balances is required for the project, as shown in the following screenshot.

Projects CSTRCERTIF - Cert	tified Payroll Example	Project									NOTES	FILES
The revenue project t	palances now include the app	licable inclusive taxe	s. To make sure !	hat the project reports	include correct ta	x information, recalculate	the project balance	by using	g the Recalculate Proj	ect Balance comm	nand in the Mo	ore menu.
€ 1 ≥ Ω	+ 🗎 K K	> >	COMPLETE PR	OJECT RUN PR	OJECT BILLING	144						
Project ID: Gustomer: Template:	CSTRCERTIF - Ce BAKER-DEVE - Ba SIMPLE - One Task	rtified Payroll Exam , ker Development , Project	D Status	Active	Actu Actu Man	ial Income: ial Expenses: glni	0.00 3,618.10 -3,618.10		0.00			
Description: Gurrency Rate for Budget:	Certified Payroll Ex USD 1.00	* VIEW BAS	E									
SUMMARY TASKS	REVENUE BUDGET	COST BUDGET	BALANCES	COMMITMENTS	INVOICES	CHANGE ORDERS	CHANGE REQ	UESTS	UNION LOCALS	ACTIVITIES	EMPLOYE	EES EC
PROJECT PROPERTIES			RET	ANAGE			_					
Revenue Buoget Level:	Task	- *	Re	tainage Mode:	Standard							
Cost Budget Level:	Task and Cost Code		Co	ntract Total:	6,000.00	Include CO						
Start Dale:	8/15/2020 9		Co	mpleted (%):	0.00							
End Date:	*		Tot	al Retained Amount:	0.00							
Project Manager:	Jordan Kinlear	Q	Re	tainage (%):	0.00	Use Steps						

Figure: Project requiring recalculation of the project balances

For more information on project balance recalculation, see Post-Upgrade Changes and Actions.

Projects and Construction: Changes to Summary Area Totals

In previous versions of Acumatica ERP, the Summary area of data entry forms usually included the total quantities and amounts of the document—that is, document totals—that were not listed on specific tabs of the form. In Acumatica ERP 2023 R2, the following forms have been modified to improve the user experience and provide better visibility of important data in the Summary area:

- Subcontracts (SC301000)
- Project Quotes (PM304500)
- Opportunities (CR304000)

For details on form changes in other product areas, see *CRM*: *Changes to Summary Area Totals, Finance: Changes to Summary Area Totals, and Inventory and Order Management: Changes to Summary Area Totals.*

The following sections describe the UI changes made on the listed forms.

Changes to the Subcontracts Form

On the *Subcontracts* (SC301000) form, to enhance the available information in the Summary area (shown in the screenshot below), the following changes have been made:

- The UI elements have been rearranged.
- The Approved check box has been removed.
- The VAT Taxable Total and VAT Exempt Total boxes have been moved to the Financial tab and renamed.
- The **Discount Total** box has been removed.
- The Line Total box has been renamed to Detail Total (see Item 1 in the screenshot below).
- The Line Discounts box has been added (Item 2). The box displays the sum of the values in the Discount Amount box of the Details tab. The box appears in the Summary area if the Vendor Discounts feature is disabled on the Enable/Disable Features form.
- The Document Discounts box has been added (Item 3).

If the *Vendor Discounts* feature is enabled, the **Document Discounts** box shows the total of the discounts of the *Document* and *Group* type that are applicable to the document.

If the *Vendor Discounts* feature is disabled, a user can manually specify the discount amount in the **Document Discounts** box, which is shown in the Summary area.

Subcontracts SC-000041 - Squeez	zo Inc.										I NOTES	ACTIVITIES	FILES	CUSTOMIZATI
↑ 12 10 10	+ 0 0 .	~ i< < :	> >I REA	MOVE HOLD										
Subconfract Nbr.	SC-000041	,0 •v	endor; S	QUEEZO - Squ	eezo Inc. D	0	Detail Total:		43,000.0	0				
Status	On Hold	* [3	scation M	AIN - Primary L	ocation P		Line Discounts		300.0	0				
Date:	8/22/2023 🛅						Document Disco	atmuc:	2.135.0	3				
Start Date	8/22/2023						Tax Total.		0.0	0				
Vendor Ref							Subcentract Tet	at	40,565.0	5				
Description	Subcontract for HMB	AKERY					Retainage Total		0.0	>				
DETAILS TAXES	ADDRESSES D	SCOUNTS BILLI	NG PREPAY	IENTS FIN	ANCIAL ATTRIBUTE	8	COMPLIANCE							
0 + 0 ×	ADD PROJECT ITE	м н х	t											
🗄 🖗 🗅 *Branch	Inventory ID	*Project	Project Task	Cost Code	Line Description			UOM	Order Qty.	Unit Cost	Ext. Cost	Discount Percent	Discount	Menual Discoent
> 0 D HEADOFFICE	INSTALL	HMBAKERY6	PHASE1	00-000	installation of equipment	t at th	e customers'	HOUR	10.00	1,500.0000	15,000.00	2.000000	300.00	2
B D HEADOFFICE	INSTALL	HMBAKERY6	PHASE2	00-000	Installation of equipment	t at th	e customers'	HOUR	20.00	1,400.0000	28,000.00	0.000000	0,00	

Figure: UI changes in the Summary area of the Subcontracts form

On the **Financial** tab of the *Subcontracts* form (shown in the screenshot below), the following changes have been made:

- The sections have been rearranged.
- The Subcontract Info section has been added. This section includes the following UI elements: Branch, Terms, Vendor Tax Zone, Pay-to Vendor, Workgroup ID, Do Not Print, Printed, Do Not Email, and Emailed.
- The Retainage section has been added. This section includes the Apply Retainage check box and the Retainage Percent box. The section appears on the form if the *Retainage Support* feature is enabled on the *Enable/Disable Features* form.
- The VAT Totals section, which includes the VAT Taxable and VAT Exempt boxes, has been added. These boxes have been moved from the Summary area of the form. The VAT Totals section is displayed on the form if the VAT Reporting feature is enabled on the Enable/Disable Features form.
- The **Discounts Total** section has been added. The **Line Discounts** box in this section displays the sum of the values in the **Discount Amount** box of the **Details** tab. The **Document Discounts** box in this section shows the total of the discounts of the *Document* and *Group* type that are applicable to the document and are listed on the **Discounts** tab of the form.

SUBCONTRACT INFO							
Subcontract Nbr: SC-000041 Status: On Hold + Location: MAIN - Primary Location MAIN - Primary Location Line Discounts: Status: 0n Hold + Location: MAIN - Primary Location B222023 : Status: Status: S222023 : Status: S222023 : Status: S222023 : Subcontract Tor Subcontract Tor Vendor Ref: Subcontract Tor HMBAKERY Detrails Tax Total: Subcontract Tor Subcontract Tor DETAILS TAXES ADDRESSES DISCOUNTS BILLING PREPAYMENTS Financh: HEADOFFICE - SweetLife Head Office and Wholesale f P * Granch: Subcontract in Financial * On Not Print Printed * On Not Print Printed * On Not Email Emailed * Con Not Email Emailed * Con Not Email Emailed * Apply Retainage Retainage Percent: 300000	Subcontracts SC-000041 - Squeez	zo Inc.					
Subcontract Nbr: SC-000041 P Vendor: SQUEEZO - Squeezo Inc. P Detail Total: 43,000,00 Status: On Hold + Location: MAIN - Primary Location Discounts: 300,00 • Date: 8/22/2023		+ û û ~ K	< > > R	EMOVE HOLD ····			
Status: On Hold * Location: MAIN - Primary Location P Line Discounts: 300.00 * Date: 8/22/2023 Document Discounts: 2,135.00 Statu Date: 8/22/2023 Tax Total: 0.00 Vendor Ref: Subcontract Total: 40,665.00 Description: Subcontract Total: 40,665.00 DETAILS TAXES ADDRESSES DISCOUNTS BILLING PREPAYMENTS FINANCIAL ATTRIBUTES COMPLIANCE SUBCONTRACT INFO DISCOUNT TOTALS Line Discounts: 2,135.00 Vendor Tax Zone: P Discounts: 2,135.00 Vendor Tax Zone: P Unbilled Quantity: 30.00 Vendor Tax Zone: P Unbilled Amount: 40,565.00 Workgroup ID: P oh Not Frint Printed Unbilled Prepayment T 0.00 RETAINAGE SETTINGS Apply Retainage Apply Retainage Katanage 40,565.00	Subcontract Nbr.:	SC-000041	* Vendor:	SQUEEZO - Squeezo Inc.	P 0	Detail Total:	43,000.00
* Date: 8/22/2023 Document Discounts: 2,136.00 Start Date: 8/22/2023 Tax Total: 0.00 Vendor Ref:: Subcontract Total: 40,565.00 Description: Subcontract for HMBAKERY Retainage Total: 0.00 DETAILS TAXES ADDRESSES DISCOUNTS FINANCIAL ATTRIBUTES COMPLIANCE SUBCONTRACT INFO NECOUNT TOTALS Line Discounts: 2,135.00 * Branch: HEADOFFICE - SweetLife Head Office and Wholesale (P) Document Discounts: 2,135.00 * Terms: 30D - 30 Days Document Discounts: 2,135.00 Workgroup ID: Printed Unbilied Amount: 40,565.00 Workgroup ID: Apply Retainage Apply Retainage Manount: 40,565.00 Retainage Percent: 3.000000 Subcontract Subcontract Subcontract	Status:	On Hold	* Location:	MAIN - Primary Location	Q	Line Discounts:	300.00
Start Date: B/22/2023 Vendor Ref.: Subcontract for HMBAKERY Description: Subcontract for HMBAKERY DETAILS TAXES ADDRESSES DISCOUNTS BILLING PREPAYMENTS FINANCIAL ATTRIBUTES COMPLIANCE SUBCONTRACT INFO * Branch: HEADOFFICE - SweetLife Head Office and Wholesale (P Vendor Tax Zone: Workgroup ID: 0 Do Not Print Printed Unbilled Amount: 10 Discoutts: 2 Do Not Print Printed Unbilled Prepayment T 0.00 RETAINAGE SETTINGS Retainage Retainage Retainage	* Date:	8/22/2023				Document Discounts:	2,135.00
Vendor Ref.: Subcontract for HMBAKERY Retainage Total: 40,565.00 Description: Subcontract for HMBAKERY Retainage Total: 0.00 DETAILS TAXES ADDRESSES DISCOUNTS BILLING PREPAYMENTS FINANCIAL ATTRIBUTES COMPLIANCE SUBCONTRACT INFO DISCOUNT TOTALS * Branch: HEADOFFICE - SweetLife Head Office and Wholesale () Line Discounts: 300.00 * Terms: 30D - 30 Days) Discounts: 2,135.00 Workgroup ID: © Do Not Print Printed Unbilled Quantity: 30.00 Workgroup ID: © Do Not Print Printed Unbilled Prepayment T 0.00 RETAINAGE SETTINGS © Apply Retainage Unpaid Amount: 40,565.00 Retainage Percent: 3.000000	Start Date:	8/22/2023 📋				Tax Total:	0.00
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DETAILS TAXES ADDRESSES DISCOUNTS BILLING PREPAYMENTS FINANCIAL ATTRIBUTES COMPLIANCE SUBCONTRACT INFO	Description:	Subcontract for HMBAKERY				Retainage Total:	0.00
DETAILS TAXES ADDRESSES DISCOUNTS BILLING PREPAYMENTS FINANCIAL ATTRIBUTES COMPLIANCE SUBCONTRACT INFO							
SUBCONTRACT INFO DISCOUNT TOTALS * Branch: HEADOFFICE - SweetLife Head Office and Wholesale () Line Discounts: 300.00 * Terms: 30D - 30 Days Document Discounts: 2,135.00 Vendor Tax Zone: 0 Discount Discounts: 2,135.00 Workgroup ID: 0 Do Not Print Printed Unbilled Quantity: 30.00 Constrained 0 Discounts: 40,565.00 Unbilled Prepayment T 0.00 RETAINAGE SETTINGS Image Apply Retainage 40,565.00 Unpaid Amount: 40,565.00 Retainage Percent: 3.000000 Image Image Image Image Image	DETAILS TAXES	ADDRESSES DISCOUNTS	BILLING PREPA	YMENTS FINANCIAL A	TTRIBUTES	COMPLIANCE	
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Vendor Tax Zone:	* Terms:	30D - 30 Days	Q	Document Discounts:		2,135.00	
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Retainage Percent: 3.000000	RETAINAGE SETTINGS			Unpaid Amount:		40,565.00	
Retainage Percent: 3.000000		Apply Retainage					
	Retainage Percent:	3.000000					

The Unbilled section has been renamed to Billing Info.

Figure: UI changes on the Financial tab of the Subcontracts form

Changes to the Project Quotes Form

In the Summary area of the *Project Quotes* (PM304500) form, the following changes have been made (as shown in the following screenshot):

- The Gross Margin box has been renamed to Gross Margin Amount.
- The Gross Margin % box has been renamed to Gross Margin (%).

Designet Questos						
PO000001 -	Italian Company					
1 0000001		A 17 7 1	N			
			CONVERT TO PROJECT	SUBMIT	PRINT ···	
Quote Nbr.:	PQ000001 - Project (P	Project Template:	CONTM - Construction project (tim	ear 🔎 🧷	Total Sales:	4,116.00
Opportunity ID:	000016	Project Manager:		Q	Total Cost:	3,000.00
	Primary	Business Account:	ITACOM - Italian Company	00	Gross Margin Amour	it: 1,116.00
Status:	Draft	Contact:	Dustin Lindquist	00	Gross Margin (%):	27.11
* Date:	8/22/2023	Owner:		Q	Tax Total:	0.00
Expiration Date:		New Project ID:			Quote Total:	4,116.00
External Ref.:						
* Description:	Project quote for ITACO	M				
ESTIMATION	PROJECT TASKS	FINANCIAL ACTIVITIES	TAXES ATTRIBUTES AD	DRESSES		
ڻ + ×	(↔ X 1±					
🖹 🕕 🗋 Inventor	ry ID Descriptio	n	Quantity UOM	Unit Cost	Ext. Cost	Unit Price Manual
						Flice
	L Installatio	on of equipment at the customers'	15.00 HOUR	200.0000	3,000.00	280.0000

Figure: UI changes in the Summary area of the Project Quotes form

Changes to the Opportunities Form

On the **Quotes** tab of the *Opportunities* (CR304000) form, the following changes have been made, as shown in the following screenshot:

- The Amount column has been renamed to Detail Total.
- The Discounts column has been renamed to Document Discounts.
- The Gross Margin column has been renamed to Gross Margin Amount.
- The Gross Margin % column has been renamed to Gross Margin (%).

(oppor 0000	tunit)16	ies - ITACON	1 project qu	ote										
	2	Ē	ŝ	+ û ~	i I<	< >	>I CLOSE	AS WON	CREATE QU	JOTE ···					
	Opp	oortu	nity ID:	000016		Q	Business	Account:	ITACOM -	Italian Compan	y Q	0		Manual	Amount
	Stat	tus:		Open			Location:		MAIN - Pri	mary Location	Q	0 D	etail Total:	4,1	16.00
	Cla	ss ID	0	PRODUC	T - Product Sales	Q	Contact:		Dustin Line	dquist	Q	0 L	ine Discounts:		34.00
	Sta	ge:		Prospect		~	Owner:				Q	D	ocument Discounts:		0.00
	* Estimated Close Date: 8/22/2023 🗇 Tax Total: 0.00														
	• Sub	ject:		ITACOM p	roject quote							T	otal:	4,1	16.00
	AC	TIVI		OTES COM	NTACT CRM	INFO FIN	NANCIAL SH	IPPING	ATTRIBUTES	RELATION	S				
	C	Н	COPY (QUOTE SE	T AS PRIMARY	⊷ X									
E	0	۵	Primary	Quote Nbr.	Туре	*Description	1	Status	* Date	Expiration Date	Currency	Manual Amount	Detail Total	Document Discounts	Tax Total
>	0			PQ000001	Project Quote	Project quo	te for ITACOM	Draft	8/22/2023		USD		4,116.00	0.00	0.00

Figure: UI changes on the Quotes tab of the Opportunities form

For the list of other changes that have been made in the Summary area of the *Opportunities* form, see *CRM: Changes to Summary Area Totals.*

Changes to the Mobile App

In the Acumatica mobile app connected to an instance of Acumatica ERP 2023 R2, the following changes have been made to the Subcontracts screen (see the screenshot below):

- The Line Total box has been renamed to Detail Total.
- The VAT Taxable Total and VAT Exempt Total boxes have been removed.

10:16 🖴	📽 🍕 🖘 🎬 JI 💱 100% 🛢				
× Subcontract	i :				
Description Subcontract for HMBAK	ERY				
Vendar≓ Squeezo Inc.					
Primary Location					
Ventlor Ref.					
Detail Total 43 000,00					
Line Discounts 300,00					
Document Discounts 2 135,00					
Tax Total Ø,00					
Subcontract Total 40 565,00					
DETAILS	5				
III 0	<				

Figure: Changes on the Subcontracts screen

Projects and Construction: Enhanced Row-Level Security in Projects

In Acumatica ERP 2023 R2, the row-level security functionality has been enhanced to provide more flexible settings for the configuration of project visibility. Now administrative users are able to organize projects into groups and configure access to the projects in each group for a particular set of users.

Changes to the Project Accounting Forms

If the *Projects* group of features is enabled on the *Enable/Disable Features* (CS100000) form, the new *Project Groups (PM202500)* form (see the following screenshot) is available in Acumatica ERP 2023 R2. If the *Administrator, AcumaticaSupport*, or *Project Accountant* role is assigned to a user on the *User Roles* (SM201005) form, the user can create project groups on the *Project Groups* form, shown in the following screenshot.

F	Project Groups										
(Ċ	Ē	ŝ	+	×	↔	X	t			
8	0		* Project G	roup ID	D	escripti	on				Active
	0	D	GROUP1		F	project g	roup 1				
	0	D	GROUP2		F	project g	roup 2				
>	0	D	GROUP3		F	Project g	roup 3				

Figure: Project groups on the Project Groups form

On the More menu of this form, the following commands appear if the *Row-Level Security* feature is enabled on the *Enable/Disable Features* (CS100000) form:

• The **Update Restriction Settings for Projects** command, which a user clicks to update the row-level security settings for all projects that are included in the project group that is currently selected in the table. The user needs to use this command if the configuration of the restriction groups for the project group has changed on the applicable Acumatica ERP form.

If the user clicks **Update** in the confirmation dialog box that opens, all projects that belong to this project group will have the same restriction settings as the current project group has.

• The **Manage Restriction Groups** command, which a user clicks to open the *Restriction Groups by Project Group (PM102020)* form for the project group that is selected in the table on the current form. The opened form displays the list of all restriction groups, and the user can select or clear the Included check boxes to indicate which restriction groups are associated with the project group.

On the **Summary** tab of the *Projects* (PM301000) and *Project Templates* (PM208000) forms, the **Project Group** box has been added to show the project group to which the project or project template is assigned. (See the following screenshot, in which the selected project is assigned to the *GROUP1* project group.) A user can specify a project group in this box if the *Administrator*, *Internal Projects*, or *Payroll Projects* role is assigned to this user on the *User Roles* form.

Projects CSTRDEV - Palm Esta	^{projects} CSTRDEV - Palm Estates - Developer Project Example										
ς 🗍 🗒 Ω	+ 🛍 I< < > >I	COMPLETE PROJECT RUN PRO	OJECT BILLING								
* Project ID:	CSTRDEV - Palm Estates - Develop	per P Status: Active	Actual Income:	3,560,262.51							
Customer:	CARRDEV - Carr Development Inc.	P 0	Actual Expenses:	2,652,939.46							
Template:	CSTRDEVELO - Construction Deve	eloper 🖉	Margin:	907,323.05 %:							
* Description:	Palm Estates - Developer Project E	xample									
Currency Rate for Budget:	USD 1.00 * VIEW B	BASE									
SUMMARY TASKS	REVENUE BUDGET COST BUDGE	T BALANCES COMMITMENTS	INVOICES CHANGE ORDERS	CHANGE REQUESTS							
PROJECT PROPERTIES		RETAINAGE									
Revenue Budget Level:	~	Retainage Mode:	Standard	*							
Cost Budget Level:	~	Contract Total:	5,384,538.68 Include CO								
* Start Date:	8/1/2020 ~	Completed (%):	66.12								
End Date:	5/30/2021 ~	Total Retained Amount:	0.00								
Project Group:	GROUP1 P	Retainage (%):	0.00 Use Steps								
Project Manager:	Jordan Kinlear 🖉 🔎	VISIBILITY SETTINGS									
Time Activity Approver:	KINLEARJOR - Jordan Kinlear		🗹 GL 🗹 AP 🗹 AR 🗹 SO	PO							
Last Revenue Change	0001		🗹 IN 🗹 CA 🗹 CRM								
* Project Currency:	USD P SET RATES		✓ Time Entries ✓ Expenses								

Figure: A project assigned to a project group

When a user creates a project based on a project template, the system copies the project group specified in the project template to the created project. Similarly, when a user creates a project template based on a project on the *Project Templates* form, the system copies the project group specified in the project template to the created project.

When a user copies a project on the *Projects* form, the system copies the project group assigned to the original project to the copied one.

The **Project Group** column has also been added to the *Projects (PM3010PL)* list of records.

Changes to the Row-Level Security Forms

If the *Row-Level Security* feature is enabled on the *Enable/Disable Features* (CS100000) form, the new *Restriction Groups by Project Group (PM102020)* form (see the following screenshot) is available. A user can view this form if the *Administrator*, *CS Admin*, or *AcumaticaSupport* role is assigned to this user on the *User Roles* (SM201005) form.

On the *Restriction Groups by Project Group* form, the user can select a project group and see which restriction groups contain this project group; restriction groups are used to control the visibility of the projects in the project group to users. The table shows the full list of restriction groups in the system, with the Included check box selected for each group that contains the project group. The user can select and clear these check boxes to include the project group in other restriction groups or exclude it from restriction groups that currently contain it. If a project group has been added to a restriction group (that is, if the unlabeled check box is selected in the row with the restriction group on this form), the visibility restrictions of this restriction group will apply to all projects assigned to the project group. For more information on restriction groups, see *Restriction Groups in Acumatica ERP*.

Re	Restriction Groups by Project Group												
Ē		\$	K	<	>	Ы							
	Project Group: GROUP1 ,												
Ċ)	i⊷	X	Piojec	rgroup	1							
8 (Group	Name					Description	Active	Group Type			
> [Cash	Accou	nt Acces	s			Block non-finance from cash accounts	А				
[Intern	ationa	I Custom	ers			International Customer Access	А				
[Intern	ationa	Vendors	6			Limit access to international vendors		А			
E	~	Limit	Access	to Empl	oyees			Limit Access to Employees	\checkmark	А			

Figure: Configuration of restriction groups by project groups

On the *Project Access* (PM102000) form, the **Project Groups** tab has been added, as shown in the following screenshot. This tab lists all project groups that have been configured in the system on the *Project Groups* (*PM202500*) form. If a project group has been added to a restriction group (that is, if the unlabeled check box is selected in the row with the project group on this tab), the visibility restrictions of this restriction group will apply to all projects assigned to the project group. In the screenshot, notice that the *GROUP1* project group belongs to the restriction group selected on the form.

Project Access		
🗎 🗠 + К	< > >I	
* Group Name:	Limit Access to Employees	Q
Description:	Limit Access to Employees	
Group Type:	A	*
	Active	
USERS PROJECT G	ROUPS PROJECTS	
⊘ → 🗵		
🖹 🕛 🗋 Project Grou	p ID Description	
	Project group 1	
	Project group 2	
	Project group 3	

Figure: The project group that belongs to the restriction group

On the *Restriction Groups by Project* (PM102010) form, the **Project Groups** box has been added to the Summary area, as shown in the following screenshot. The form is available to users assigned to the *Administrator*, *CS Admin*, or *AcumaticaSupport* role on the *User Roles* form.

Restriction G	roups by Project	1				
n K	< > >					
Project ID:	CSTRDEV - Palm Es	tates - Developer Project ,0	Customer:	CARRDEV - Carr Development Inc.		
Status:	Active		Template:	CSTRDE\	ELO - Construction Developer Proje	
Description:	Palm Estates - Devel	oper Project Example	Project Group:	GROUP1		
Č ↔ X						
Group Name	eu -	Description		Active	Group Type	
> 🗌 Cash Accou	int Access	Block non-finance from c	ash accounts		А	
Internationa	I Customers	International Customer A	ccess		А	
Internationa	I Vendors	Limit access to internatio	nal vendors		А	
Limit Access	s to Employees	Limit Access to Employee	\checkmark	A		

Figure: The Project Group box on the Restriction Groups by Project form

Forms to Which Row-Level Security Rules Apply

With the implemented functionality, if an administrative user configures visibility restrictions for a particular project group, the projects assigned to this project group will not be visible for users with insufficient access rights. These users will not be able to find these projects or project-related documents in a global search or review these projects and documents on data entry forms. The configured restriction rules apply to the following projects and constructions forms:

- Projects (PM301000) form and Projects (PM3010PL) list of records
- Project Tasks (PM302000) form and Project Tasks (PM3020PL) list of records
- Cost Projection (PM305000) form and Cost Projection (PM3050PL) list of records
- Project Budget Forecast (PM209600) form and Project Budget Forecast (PM2096PL) list of records
- Project Quotes (PM304500) form and Project Quotes (PM3045PL) list of records
- Pro Forma Invoices (PM307000) form and Pro Forma Invoices (PM3070PL) list of records
- Change Orders (PM308000) form and Change Orders (PM3080PL) list of records
- Change Requests (PM308500) form and Change Requests (PM3085PL) list of records
- Progress Worksheets (PM303000) form and Progress Worksheets (PM3030PL) list of records
- Project Issue (PJ301000) form and Project Issue (PJ3020PL) list of records
- Drawing Logs (PJ403000) form
- Drawing Log (PJ303000) form
- Daily Field Report (PJ304000) form and Daily Field Report (PJ3040PL) list of records
- Photo Logs (PJ405000) form
- Photo Log (PJ305000) form
- Submittals (PJ306000) form and Submittals (PJ3060PL) list of records
- Labor Rates (PM209900) form
- Project Transactions (PM304000) form
- Project Transaction Details (PM304000) form
- Commitments (PM306000) form

The configured restriction rules also apply to the following projects and constructions report forms:

• Pro Forma Invoice (PM642000) report form

- Project Quote (PM604500) report form
- Change Request (PM643500) report form
- Change Order (PM643000) report form
- Submittal Form (PJ663000) report form
- Pro Forma Invoice with Qty (PM653000) report form
- Project Budget Forecast by Month (PJ629600) report form
- Construction Bonding Report (PM650500) report form
- Project Issue Form (PJ662000) report form
- Daily Field Report Form (PJ644000) report form
- Subcontract Payment (SC647000) report form
- Subcontract Audit (SC644000) report form
- Project WIP (PM651500) report form
- Project WIP Detail (PM652500) report form

Projects and Construction: Side Panel Support for Specific Forms

A side panel is a navigation option where users can drill down to relevant details about any record they select on a form. In Acumatica ERP 2023 R2, side panels have been added to multiple forms related to projects and construction. With these side panels, a user can have a comprehensive view of the settings of a record without opening it on the corresponding forms.

The following screenshot shows the side panel for the *Projects* (PM301000) form with the settings of the applicable customer being displayed.

	C NOTES FILES CUSTOMIZATIO	N TOOLS -	1 +	Customers	D	0 [] ×
Projects	Hatal and Condensisiums (Manage Okean)	- 1	Customers	a a o +	VIEW ACCOUNT	
ດ 📄 🔄 ທ	+ COMPLETE PROJECT RUN PROJECT BILLING		ES Project Transaction	Customer ID: • Customer Status.	EQUGRP - The Equity Group Investo Active	and the state of t
Project ID: Customer Template: Description: Actual Income: Actual Expenses. Margin.	HOTEL - The Beach Hotel and Condor D Status: Active EQUIGRP - The Equity Group Investor D D The Beach Hotel and Condominiums (Warmer Street) 22.667.202.71 12.738.076.16 9.902.126.55 % 43.82	0	Details Drawing Loga Previot Houses	Customer Class: Balance Prepayment Balance. Retained Balance. GENERAL FINANCE	GOVERNMENT - Construction gover 46,586,036,84 0.00 3,690,520,13 CAL BELLING SHIPPING	m P Ø
SUMMARY TASKS	REVENUE BUDGET COST BUDGET BALANCES INVOICES	2	Information	ACCOUNT INPO ACCOUNT Name: ACCOUNT ADDRESS	The Equity Group Investors	
Revenue Budget Level: Cost Budget Level	Task and Cost Code			Address Line 1 Address Line 2:	956 51st Aven	
Start Date	3/1/2023 ~			City: State:	New York	0
Project Manager	Ellen Watson			Postal Code:	06653	0
Last Revenue Change	EP-00000033 - Ellen Watson			ADDITIONAL ACCOUNT	INFO	_
Inventory Tracking	Track by Project Quantity and Cost 🐳			Business 1 ~ Business 2 ~	+1-212-555-0107	
	Allow Adding New Items on the Fly Restrict Employees			Fax + Account Email,	info@equitygroup.example.com	
	Restrict Equipment		• >	Web.	www.equitygroup.example.com	C

Figure: The side panel on the Projects form

A side panel may have only one tab with a form related to the selected record, or it may have multiple tabs. 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.

Table: Forms with Side Panels

Form or List of Records	Tab or Tabs of the Side Panel	Description		
<i>Projects</i> (PM301000) form and <i>Projects (PM3010PL)</i> list of records	Customers (AR303000)	Displays the settings of the cus- tomer specified in the selected project and any files and notes ap- plied to the customer record. The user can modify the data in the cus- tomer's record.		
	<i>Project Transaction Details</i> (PM401000)	Displays the inquiry form that shows the project transactions re- lated to the selected project.		

Form or List of Records	Tab or Tabs of the Side Panel	Description
	Drawing Logs (PJ403000)	Displays the list of drawing logs for the selected project.
		This tab is displayed only when the <i>Construction Project Manage-</i> <i>ment</i> feature is enabled on the <i>En-</i> <i>able/Disable Features</i> (CS100000) form
	Project Issue (PJ302000)	Displays the list of project issues for the selected project.
		This tab is displayed only when the <i>Construction Project Manage-</i> <i>ment</i> feature is enabled on the <i>En-</i> <i>able/Disable Features</i> form
	Request for Information (PJ3010PL)	Displays the list of requests for in- formation for the selected project.
		This tab is displayed only when the <i>Construction Project Manage-</i> <i>ment</i> feature is enabled on the <i>En-</i> <i>able/Disable Features</i> (CS100000) form
Change Orders (PM308000) form and Change Orders (PM3080PL) list	Change Requests (PM308500)	Displays the list of change requests for the selected change order.
of records		This tab is displayed only when the <i>Change Requests</i> feature is en- abled on the <i>Enable/Disable Fea-</i> <i>tures</i> (CS100000) form
	Drawing Logs (PJ403000)	Displays the list of drawing logs for the selected change order.
		This tab is displayed only when the <i>Construction Project Manage-</i> <i>ment</i> feature is enabled on the <i>En-</i> <i>able/Disable Features</i> (CS100000) form
	Project Issue (PJ302000)	Displays the list of project issues for the selected change order.
		This tab is displayed only when the <i>Construction Project Manage-</i> <i>ment</i> feature is enabled on the <i>En-</i> <i>able/Disable Features</i> (CS100000) form

Form or List of Records	Tab or Tabs of the Side Panel	Description
	Request for Information (PJ3010PL)	Displays the list of requests for in- formation for the selected change order.
		This tab is displayed only when the <i>Construction Project Manage-</i> <i>ment</i> feature is enabled on the <i>En-</i> <i>able/Disable Features</i> (CS100000) form
<i>Change Requests</i> (PM308500) form and <i>Change Requests</i> (<i>PM3085PL</i>)	Drawing Logs (PJ403000)	Displays the list of drawing logs for the selected change request.
list of records		This tab is displayed only when the <i>Construction Project Manage-</i> <i>ment</i> feature is enabled on the <i>En-</i> <i>able/Disable Features</i> (CS100000) form
	Project Issue (PJ302000)	Displays the list of project issues for the selected change request.
		This tab is displayed only when the <i>Construction Project Manage-</i> <i>ment</i> feature is enabled on the <i>En-</i> <i>able/Disable Features</i> (CS100000) form
	Request for Information (PJ3010PL)	Displays the list of requests for in- formation for the selected change request.
		This tab is displayed only when the <i>Construction Project Manage-</i> <i>ment</i> feature is enabled on the <i>En-</i> <i>able/Disable Features</i> (CS100000) form
Request for Information (PJ301000) form and Request for Information (PJ3010PL) list of records	Drawing Logs (PJ403000)	Displays the list of drawing logs for the selected request for informa- tion.
	Project Issue (PJ302000)	Displays the list of project issues for the selected request for informa- tion.
<i>Project Issue</i> (PJ302000) form and <i>Project Issue (PJ3020PL)</i> list of records	Drawing Logs (PJ403000)	Displays the list of drawing logs for the selected project issue.
Submittals (PJ306000) form and Submittals (PJ3060PL) list of records	Drawing Logs (PJ403000)	Displays the list of drawing logs for the selected submittal.

For details about side panels, see *Side Panels on Forms*.

Projects and Construction: Photo Log Improvements

Previously, when working with a photo log in a web instance of Acumatica ERP, a user was not able to attach multiple photos at a time. Also, the photos attached to a photo log from the Acumatica mobile app were not shown in the table on the **Photos** tab of the *Photo Log* (PJ305000) form.

In Acumatica ERP 2023 R2, the process of working with photos has been streamlined to provide a better user experience in both Acumatica ERP and the Acumatica mobile app.

Uploading of Multiple Photos in the Web Instance

On the **Photos** tab of the *Photo Log* (PJ305000) form, the ability to mass-upload photos has been implemented. The file upload area are has been added above the table toolbar (see the following screenshot). The + button has been removed from the table toolbar.

To upload the photos, the user clicks the file upload area (which has the *Drag files here or click to upload* text), and selects all photos to be uploaded in the dialog box that opens. This is the recommended way to upload photos.

Photo Log PL-000001 -	The Beach Hotel and (Condominiums (W	/arner Street)				
← 『] []	v + 🗓 🗘	<u>∽ I< <</u> 2	> >				
Photo Log ID:	PL-000001	A * Status:	In Progress		Created	By: epsmith - Ernest F	P. Smith
* Date:	3/15/2023 ~						
* Project:	HOTEL - The Beach Hotel an	2					
Project Task:	02 - SITEWORK	Q					
Description:	Problem with the drainage sy	stem					
PHOTOS A	CTIVITIES						
		Drag	files here or click to	o upload.			
Ċ × U	PLOAD PHOTOS FROM ATTA	CHMENTS H→	<u><</u>			All Records	• 7
🖹 🗋 * Photo ID	Name		Description	Uploaded On	Uploaded By		Main Photo

Figure: File upload area on the Photos tab of the Photo Log (PJ305000) form

As an alternate way of uploading photos, the user could drag and drop files to the file upload area or directly to the table, as shown in the following screenshot.

When the user uploads the images in this way, the files are also attached to the record; the number of attached files is shown in parentheses right of the **Files** button on the form title bar.

PL-000001 -	The Beach Hotel and C	Condominiums (M	/arner Street)				🗋 N
← 🖺 🗄	ν + 🛍 D	~ I< <	> >				
Photo Log ID:	PL-000001	A * Status:	In Progress	Q	Created By:	epsmith - Ernest P. Smith	
* Date:	3/15/2023 ~						
* Project:	HOTEL - The Beach Hotel an	Q					
Project Task:	02 - SITEWORK	Q					
Description:	Problem with the drainage sy	stem					
PHOTOS A	ACTIVITIES						
			Drag files here	or click to upload.			
Ο X U	PLOAD PHOTOS FROM ATTAC	CHMENTS ↔ [3			All Records	• 7
🗟 🗋 *Photo ID	Name		Description	Uploaded Uplo	oaded By	Main Photo	
					3		

Figure: Upload of multiple files to the photo log

Each file is uploaded as a separate photo record, as shown in the following screenshot.

Photo Log PL-000001 -	The Beach Hotel and Con	dominiums (Wa	rner Street)				D NOTES FILES	(3) TOOLS •
< ?) ₿	s ∽ + @ Q ~	IC ()	>					
Photo Log ID:	PL-000001 0	* Status:	In Progress	, Q	Created By: epsmith	-Ernest P Smith		^
* Date:	3/15/2023 ~							
* Project:	HOTEL - The Beach Hotel an P							
Project Task:	02 - SITEWORK ,0							
Description	Problem with the drainage system							
PHOTOS /	ACTIVITIES	Drag fi	les here or click to up	load.			100 APA	di cambi
Ο×υ	PLOAD PHOTOS FROM ATTACHM	ENTS H X		*********	All Records	• 7	Address of the Address	VEN .
🖹 🗋 * Photo ID	Name		Description U	ploaded Uploade	d By	Main Photo	100	1
> D PH-000001	Photo_Log_Culvert.jpg		3	3/15/2023 epsmith			and a second	
D PH-000002	Photo_Log_Erosion.jpg		3	3/15/2023 epsmith			and the second second	-
D PH-000003	Photo_Log_Concrete_Hea	idwall.jpg	3	3/15/2023 epsmith				

Figure: Upload results in the photo log

The user can upload photo files with any of the supported file extension (see the *File Upload Settings* section for more details). If multiple files are uploaded, the system will upload the supported ones. The duplicated images (that is, the images with the same file name and file type as the already uploaded ones) are not uploaded.



File Upload Settings

Previously, the system used a separate list of files that could be uploaded as photos on the *Photo Log* (PJ305000) and *Photo* (PJ305010) form. This list was predefined and could not be extended.

In Acumatica ERP 2023 R2, the file upload settings for photo logs have been unified with global system settings. Now a system administrator manages the list of images that can be uploaded in photo logs on the *File Upload Preferences* (SM202550) form. In the out-of-the-box system, the image extensions supported by default are the following ones: .gif,.ico,.jpg,.png, or .tif. If the system administrator selects any other extensions to be supported in the list on this form, to apply the changes in the list of files that can be uploaded, the system administrator needs to clear the system cache by clicking **Reset Caches** on the More menu of the *Apply Updates* (SM203510) form.

Other UI Improvements

On the **Photos** tab of the *Photo Log* (PJ305000) form, the **Upload Photos from Attachments** button has been added. When the user clicks this button, the system uploads the files that are attached to the photo log as separate photo records, and then removes these files from the attachments. The user can open each photo on the *Photo* (PJ305010) form. Also, each uploaded photo becomes available as a separate line in the table on the **Photos** tab of the *Photo Log* (PJ305000) form.

The + button has been removed from the *Photo Log* screen in the Acumatica mobile app. Instead of it. the **Upload Photos from Attachments** button is now available on the *Photo Log* screen. In the mobile app, a user can quickly create photo records based on the files that have been uploaded to the photo log.

On the *Photo* (PJ305010) form, the **Upload** button was renamed to **Change Photo**. The user clicks this button to upload a new revision of the photo.

Projects and Construction: Other Improvements

In Acumatica ERP 2023 R2, multiple improvements to projects and construction have been introduced, as described in the sections below.

Deactivation of Cost Codes

Previously, users had no ability to deactivate a cost code that is no longer used in projects. Starting in Acumatica ERP 2023 R2, a user with the *Project Accountant* role can deactivate a particular cost code by clearing the **Active** check box in the line with this cost code on the *Cost Codes* (PM209500) form, as shown in the following screenshot, and saving their changes.

(Cost Codes											
	Q	E	ŝ	+	×	CHANGE ID	↔	X	t	7		
8	0		* Cost Code	* Desci	ription				Activ	е		
>	0	D	00-000	Defau	lt Cost	2]					
	0	D	01-000	Gener	ral Req	~						
	0	D	01-300	Permi	ts	~]					
	0	D	01-310	Projec	ct Mana	agement and Coor	dination		~]		
	0	D	01-311	Opera	ations-	Project Manager						
	0	D	01-312	Opera	ations-	Project Coordinate	or		~			
	0	D	01-313	Opera	ations-	Superintendent			~			
	0	D	01-314	Opera	ations-	Crew Leader						
	0	D	01-320	Const	ruction	Documentation			~			
	0	D	01-330	Desig	n Fees				~]		
	0	D	01-505	Mobili	zation				~]		
	0	D	01-510	Tempo	orary U	tilities			~]		
	0	D	01-520	Office	Trailer	s and Rentals			~]		
	0	D	01-530	Tempo	orary S	tructures			~]		
	0	D	01-600	Insura	ance				~]		
	0	D	01-611	Additi	onal ins	surance]		
	0	D	01-900	Clean	Up				~]		
	0	D	01-990	Misce	llaneou	IS			-]		

Figure: Deactivated cost code on the Cost Codes form

A cost code cannot be deactivated if either of the following conditions are met:

- The cost code is the default cost code.
- The cost code is specified in the project budget line along with a project task that has the Active status.

Once a cost code is deactivated, it becomes unavailable for selection on all Acumatica ERP forms. Inactive cost codes, however, remain specified in all existing documents, and users can continue working with these documents. The following limitations apply:

- If an operation to be performed affects only this particular document and does not produce any other related documents, the system completes this operation successfully. For example, suppose that a user opens an accounts receivable invoice on the *Invoices and Memos* (AR301000) form that includes lines with inactive cost codes. If the user clicks **Remove Hold** on the form toolbar, the system will assign the document the *Balanced* status.
- If an operation should create a subsequent document, the system will not be able to complete the operation. That is, it will not be possible to create a new document with the inactive cost codes. For example, again suppose that the user opens an accounts receivable invoice on the *Invoices and Memos* form that includes lines with inactive cost codes. If the user clicks **Release** on the form toolbar, the operation will fail because a GL transaction with an inactive cost code cannot be created.

Editable Retainage in Change Orders to Commitments

Previously, users were not able to edit the retainage information in the subcontracts and purchase orders that are linked to a change order. Starting in Acumatica ERP 2023 R2, a user can change the retainage percent and retainage amount in the commitment lines of a change order on the **Commitments** tab of the *Change Orders* (PM308000) form.

If on the *Enable/Disable Features* (CS100000) form, the *Retainage Support* feature is enabled, the **Retainage Amount** and **Retainage Percent** columns are now shown on the **Commitments** tab of the *Change Orders* (PM308000) form (see the following screenshot).

The **Retainage Amount** and **Retainage Percent** values are editable if a change order is assigned the *On Hold* status regardless of the status specified in a commitment line (*New Line, Update, Reopen, or New Document*). If the user changes either of these values in a line, another value will be recalculated automatically.

Change Orders 0000005 - The Beach	Hotel ar	d Conde	s - Prog	ress Billi	ng Exar	nple					D NOTES	ACTIVITIES	FILES	CUSTOMIZATION	N TOOLS	•
← □ □ ○	+ 0	0	ĸ	< >	ы	REMOVE HO	.D									
Reference Nbr.	000005 - 5	amped cc J	• • • •	așs:		EXTERNAL -	External reque	st - reveni ,0	0 Re	evenue Budg	et Change To	tar 150,0	00.00			^
Status	On Hold		Pr	oject		CSTRHOTEL	- The Beach H	otel and Con	0 . Co	ommitment C	nange Total		0.00			
* Change Date	8/8/2020	~	CI	ustomer		EQUGRP - Th	e Equity Group	Investors	0 CO	ost Budget C	hange Total:	105.0	00.00			
* Approval Date:	8/8/2020	~	E	ternal Refe	rence Nbr				Gr	ross Margin /	Amount:	45.0	00.00			
Contract Time Change		0	R	evenue Cha	nge Nbr.:	0002			Gr	oss Margin	%:		30.00			
Description	Stamped or	ncrete upg	ade - valet a	area					Ch	hange Reque	est Cost Total:		0.00			
									Ch	hange Reque	est Line Total.		0.00			
									CI	hange Requi	est Markup To	tat.	0.00			
									Ċ1	nange Reque	est Price Total		0.00			
CHANGE REQUESTS	REVENUE	BUDGET	COST	BUDGET	CON	MITMENTS	DETAILED DI	SCRIPTION	ATTR	RIBUTES	APPROVAL	s				
12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																
O + X SEL	ECT COMM	TMENTS	1-1 0	t 2									All R	ecords		8
C + X SEL PO Nbr.	ECT COMM	ITMENTS	i⊷i [i Order Oty.	Ext.	Cost	Open Qty.	Open Amount	Amount in Project Currency	Pot	tentially Revised Juantity	Potentially Revised Amount	Tax Category	AIR	ecords Retainage Percent	* Retainage Amount	8
O + X SEL PO Nbr. P0002057 L	ECT COMM	ITMENTS otion	i⊷i [2 Order Oty. 1.00	Ext. 6,541	Cost	Open Qty. 1.00	Open Amount 6,541.00	Amount in Project Currency 0.00	Pot I C	tentially Revised Juantity 1.00	Potentially Revised Amount 6,541.00	Tax Category TAXABLE	All R	Retainage Percent 5.000000	Retainage Amount 327.05	7
C + X SEL PO Nbr. P0002057 L P0002057	ECT COMM Line Descrip obby chand Room ligh	TMENTS otion eller ting	[⊷] [2 Order Oty. 1.00 50.00	S L Ext. 4 6,541 14,497	Cost .00	Open Qty. 1.00 50.00	Open Amount 6,541.00 14,497.50	Amount in Project Currency 0.00 0.00	Pot	tentially Revised Quantity 1.00 50.00	Potentially Revised Amouni 6,541.00 14,497.50	Tax Category TAXABLE TAXABLE	All R	Retainage Percent 5.000000 7.000000	Retainage Amount 327.05 1,014.83	V

Figure: Retainage information on the Commitments tab of the Change Orders form

In the commitment lines on the **Commitments** tab, the system determines the default retainage values to insert by using the following rules:

• If the commitment line has the *New Document* status, the system copies the default retainage percent from the vendor specified in the subcontract or purchase order. If the **Apply Retainage** check box is cleared for the vendor on the **Financial** tab of the *Vendors* (AP303000) form, the system sets the default retainage percent to *0*.



If the user specifies a nonzero retainage amount in the commitment line, in the created new document, the system will select the **Apply Retainage** check box regardless of the retainage settings of the vendor.

- If the commitment line has the *Update* or *Reopen* status, the system copies the default retainage percent from the corresponding line of the subcontract or purchase order. The retainage amount for the line is calculated as Line Amount * Retainage Percent. The user can manually override the calculated value.
- If the commitment line has the *New Line* status, the system copies the default retainage percent from the settings of the subcontract on the **Financial** tab of the *Subcontracts* (SC301000) form or the settings of the purchase order on the **Other** tab of the *Purchase Orders* (PO301000) form. The retainage amount for the line is calculated as Line Amount * Retainage Percent. The user can manually override the calculated value.

For more information about processing changes to project commitments, see *Change Orders for Commitments: General Information*.

Returns for Project Drop Shipments Without Receipts

Previously, it was not possible to process a returns for purchase orders of the *Project Drop-Ship* type that were created for the projects that have the *Skip Receipt Generation* option selected in the **Drop-Ship Receipt Processing** box on the **Defaults** tab of the *Projects* (PM301000) form. Now, users can process returns for these purchase orders by using debit adjustments.

To process a return for a drop-ship purchase order without a receipt, a user opens the related accounts payable bill on the *Bills and Adjustments* (AP301000) form and clicks **Reverse** on the More menu. If no lines of the bill are linked to a purchase receipt, the system creates a debit adjustment that is linked to the drop-ship purchase order.



The unit cost specified by default in the debit adjustment lines is the unit cost of the corresponding purchase order lines.

In the lines of the created debit adjustment, the user can edit the quantity, extended cost, and unit cost if any of the following conditions is met:

- The Apply Retainage check box is cleared for the debit adjustment on the Bills and Adjustments form.
- The debit adjustment line is not linked to a purchase receipt.
- The debit adjustment line is linked to a project drop-ship purchase order.

When a debit adjustment is released, the system changes the status of the corresponding drop-ship purchase order from *Closed* to *Completed*. In the lines of this purchase order, the system clears the **Closed** check box to indicate that the lines of the purchase order have not been billed in full.

Deprecated AR Aged Period-Sensitive with Retainage Report

In Acumatica ERP 2023 R2, the *AR Aged Period-Sensitive with Retainage (AR744000)* report has been removed. Now a user can review the outstanding documents along with their unreleased retainage on the particular date by using the *Detailed with Retainage* report format of the *AR Aging by Project* (AR631200) report, which was introduced in Acumatica ERP 2023 R1. The report is shown in the following screenshot.

AR Aging by F Company/Branch:	etailed with Re DWHOLE	tainage)							Page: Date:	1 of 1 5/10/2023 10:46 AM		
				Custor	ner:	ABARTENDE				User:	admin admin	
				Aged (Dn:	5/10/2023						
Project ID X	Desc Non-	cription Project Code.		Project Mana	Project Manager						Balance 194,583.00	
Statement Cycle	Last	Statement Date		Description								
EOM	12/31/2013			End of Montl	End of Month							
Customer	Customer Nan			e							Balance	
ABARTENDE		U	SA Bartending	School				Dast	000		194,583.00	
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	AR011903	ABARTENDE202	PRODWHOL	1/31/2023	3/2/2023	0.00	0.00	0.00	0.00	80,000.00	0.00	
Invoice	AR011958	ABARTENDE202	PRODWHOL	2/11/2023	3/13/2023	0.00	0.00	0.00	34,583.00	0.00	0.00	
Invoice	AR011988	ABARTENDE202	PRODWHOL	2/28/2023	3/30/2023	0.00	0.00	0.00	80,000.00	0.00	0.00	
				Customer 10		0.00	0.00	0.00	114,505.00	00,000.00	0.00	
				Statement C	ycle Total:	0.00	0.00	0.00	114,583.00	80,000.00	0.00	
				Project Total	:						0.00	
Project ID	Desc	cription		Project Manager								
PR0000026	Fixe	d Price Project - m	ilestone								2,802.50	
Statement Cycle	Last	Statement Date		Description								
EOM	12/31	1/2013		End of Month								
Customer		C	ustomer Name	9							Balance	
ABARTENDE		U	SA Bartending	School		_		Past F)		2,802.50	
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	AR012041		PRODWHOL	5/10/2023	5/17/2023	2,802.50	0.00	0.00	0.00	0.00	147.50	
				Customer To	tal:	2,802.50	0.00	0.00	0.00	0.00	147.50	
				Statement C	ycle Total:	2,802.50	0.00	0.00	0.00	0.00	147.50	
				Project Total	:						147.50	
				Company To	tal:						147.50	

Figure: The AR Aging by Project report with retainage details

Customers who are currently using customized versions of the *AR Aged Period-Sensitive with Retainage (AR744000)* report will not be affected by the upgrade to 2023 R2. The customized version of the report will be preserved in the system.

Enhancements in Allocation Rules

Previously, there was no way to configure an allocation rule so that the debit subaccount of the source transaction could be used as the credit subaccount for the allocation transaction. In this case, some of the unrecognized revenues could be not properly recognized as actual revenues for projects because they did not contain credit subaccount information.

In Acumatica ERP 2023 R2, new options have been introduced on the **Allocation Settings** tab of the *Allocation Rules* (PM207500) form as follows:

- In the **Debit Transaction** section, the **Subaccount** box (see Item 1 in the following screenshot) now includes the *G* subaccount mask, which refers to the credit subaccount of the source transaction (Item 2). The *S* subaccount mask refers to the debit subaccount of the source transaction.
- In the **Credit Transaction** section, the **Subaccount** box (Item 3) now includes the *G* subaccount mask, which refers to the debit subaccount of the source transaction. The *S* subaccount mask refers to the credit subaccount of the source transaction.

All R	EVREC	^{iles} 2 - Re∖	/enue re	ecognition based on i	ncurred expenses			
(v +	- 🗊 🗘 v K	< > >I			
*	Allocation Descriptic	Rule: n:	REVRE	C2 - Revenue recogni P e recognition based on incurr	ed expenses			
C	+ (×	ş	CALCULATION RULES	ALLOCATION SETTING	ss		
	Step ID	Descript	ion	TRANSACTION OPTIONS)			_
/	10	Labor	L & Othor		Post Transaction to GL		Create Transaction with Zero Qty.	
	30	Travel a	ind Subcor	Date Source:	Original Transaction	~	Create Transaction with Zero Amount Allocate Non-Billable Transactions	
				TRANSACTION BRANCH	Can Be Used as a Sourc	e in And	other Allocation	_
				Branch:	Use Source	~		
				TRANSACTION REVERS	AL		-	
				Reverse Allocation:	On AR Invoice Release	~	Product Group	\Box ×
				DEBIT TRANSACTION	Use Reversal Date from	Original	SELECT Ĉ ↔	م
				Project:	Use Source	~	Value	
				Task:	Use Source	~	DDD Task Cost	
				Account Group:	From Account	2	> GGG Credit Trans	action
				Account Origin:	Replace	~	JJJ Project Sale	s
			1	Subaccount:	GGG-GGG		SSS Debit Trans	action
				Account Group:	From Account		TTT Task Sales	
				Account Origin:	Replace	~	4	Þ
			3	Subaccount:	GGG-GGG			< > >
•			•	AGGREGATE TRANSACT	IONS			
	<	< >	>		By Date	By Vend	idor	

Figure: Subaccount sources in an allocation rule

Retail Commerce: Changes to Feature Switches

In Acumatica ERP 2023 R2, the following changes have been made to the feature switches on the *Enable/Disable Features* (CS100000) form that are related to the retail commerce functionality:

• The **Custom Connectors** feature switch has been moved to the new **Advanced Integration Engine** group (see Item 1 in the following screenshot).



If a company is using a custom connector, after the upgrade to Acumatica ERP 2023 R2, the connector's customization project must be updated, and the corresponding feature switch must be moved to the **Custom Connectors** group under **Advanced Integration Engine**.

- The **Shopify and Shopify POS Connector** feature switch has been renamed to **Shopify POS Connector** (Item 2). The corresponding feature provides only the Shopify POS order functionality. To select the **Shopify POS Connector** check box, a user must first select the **Shopify Connector** check box.
- The B2B Entities feature switch has been renamed to Business-to-Business Entities (Item 3).

Enable/Disable Features								
ν N	ODIFY ENABLE							
	Active Directory and Other External SSO							
	OpenID Connect							
	Time Management							
	Shift Differential							
	Third Party Integrations							
	SendGrid Integration							
	Advanced Integration Engine							
	Custom Connectors							
	Retail Commerce							
	BigCommerce Connector							
	Shopify Connector							
	Shopify POS Connector							
	Business-to-Business Entities							
	Bank Feed Integration							
	Integrated Card Processing							

Figure: The updated feature switches on the Enable/Disable Features form

Retail Commerce: Availability Adjustment Settings

In Acumatica ERP 2023 R2, users can adjust the available quantity of an item that is exported to external systems. The new functionality makes it possible to display a different available quantity to shoppers in an online store than the quantity that is available in the company's warehouses. This capability can be used, for example, to prevent the overselling of items.

Changes to the Stock Items Form

On the **eCommerce** tab of the *Stock Items* (IN202500) form, the **Availability Adjustment** box has been added (shown in the following screenshot). In this box, the user specifies the adjustment quantity, which will increase or decrease (if the value is preceded by a minus sign) the item's available quantity that will be exported to an external system.

Stock Items APJAM08 - Apple jar	n 8 oz.		🗋 NOTES	ACTIVITIES FILES CUSTOMIZAT	TION TOOLS -
ς μ	+ 🖻 🗘 - K < >	> ···			
* Inventory ID: Item Status: Description:	APJAM08 - Apple jam 8 oz. Active V Apple jam 8 oz.	Product Workgro Product Manager	nup:	Q Q	^
GENERAL PRICE/CO	OST MANUFACTURING WAREHOUSES	VENDORS	ATTRIBUTES PACKAGING CROS	S-REFERENCE ECOMMERCE	ş
	Export to External System	1	Media URLs		
Visibility:	Visible	~	0 + ×		
Availability:	Set as Available (Track Qty)	×	B *URL	Туре	
Availability Adjustment:	-150.00	÷	*	Image	
When Qty Unavailable:	Set as Unavailable	~			
Custom URL:					
Page Title:					
Search Keywords:					
Meta Keywords:					
Meta Description:					
		11			

Figure: The Availability Adjustment box on the Stock Items form

The available quantity adjustment that is specified in the **Availability Adjustment** box is not saved in the database, does not affect the calculation of the available quantities in Acumatica ERP, and only affects the exported available quantity of the item.



The adjustment is specified in the sales UOM of the item. Acceptable values include whole numbers and decimal numbers. Negative values should be preceded by the minus sign; positive numbers should not be preceded by any sign. Percentage values (for example, *10%*) are not accepted.

Retail Commerce: Support of Shopify Business Customers

In Shopify, it is possible to sell goods and services to business customers without using third-party apps. A business customer is set up in the Shopify store as a *company*. A company may have multiple locations, and multiple customers may be associated with the same company. Each customer that is associated with a company may be assigned either the *Ordering only* role or the *Location admin* role in any of the company's locations. When a customer associated with a company signs in to the Shopify store, they select the location for which they are placing an order, and they are offered the prices and payment terms that have been set up in the store for that company location.

For more information about setting up companies in Shopify, see the Shopify documentation.

Business-to-business functionality in Shopify is available on the Shopify Plus subscription plan.

In Acumatica ERP 2023 R2, it has become possible to synchronize business customers between Acumatica ERP and a Shopify store, as well as to synchronize orders that have been placed by contacts associated with business customers. This functionality is available if both the *Shopify Connector* feature and the *Business-to-Business Entities* feature are enabled on the *Enable/Disable Features* (CS100000) form.

The Company Entity

To synchronize business customers between Acumatica ERP and a Shopify store, the e-commerce manager first needs to activate the new entity, *Company*, on the **Entity Settings** tab of the *Shopify Stores* (BC201010) form (which is shown in the following screenshot).

S	Shopify Stores Shopify SweetStore												
÷		Ę.	E	∽ +	Û	₿ × K	$\langle \rangle \rangle$	TEST CONNECTION	ON				
Connector: Shopify CActive													
	* Sto	ore Na	me:	Swee	etStore		Q	🗸 Default					
CONNECTION SETTINGS ENTITY SETTINGS CUSTOMER SETTINGS INVENTORY SETTINGS ORDER SETTINGS PAYMENT SETTINGS SHIPPIN												SHIPPING SETTINGS	
(う	⊷											
	0		ctive	Entity		Sync Direction	Primary System	Real-Time Import	Real-Time Export	Real-Time Mode	Max. Number of Failed Attempts		
	0		✓	Customer		Import	External Syster	n Not Supported	Not Supported	Prepare	5		
>	0		✓	<u>Company</u>		Bidirectional	External Syster	n Not Supported	Not Supported	Prepare	5		
	0	D		Customer Loc	<u>cation</u>	Import	External Syster	n Not Supported	Not Supported	Prepare	5		
	0		~	Stock Item		Export	ERP	Not Supported	Stopped	Prepare	5		
	0	D	\checkmark	Non-Stock Ite	<u>em</u>	Export	ERP	Not Supported	Stopped	Prepare	5		

Figure: The new Company entity on the Shopify Stores form

The *Company* entity can be imported, exported, or synchronized in both directions. That is, the synchronization direction for it can be set to *Import*, *Export*, or *Bidirectional* on the *Shopify Stores* form or on the *Entities* (BC202000) form.

On the *Entities* form, the fields of the new entity are available for filtering and mapping.

Import of Business Customers

During the import of a company from a Shopify store to Acumatica ERP, the system does the following:

- Creates a customer for the company on the Customers (AR303000) form
- For each location that has been defined for the company in the Shopify store, creates a customer location on the *Customer Locations* (AR303020) form

• For each customer associated with the company in the Shopify store, creates a contact on the *Contacts* (CR302000) form

As is the case with individual customers imported from a Shopify store, the identifier of the imported business customer is generated based on the numbering sequence selected in the **Customer Numbering Sequence** box on the **Customer Settings** tab of the *Shopify Stores* form. The customer class, which provides the default settings for the customer, is assigned based on the value selected in the **Customer Class** box of the **Customer Settings** tab of the *Customers* form, the new **Customer Class** box is set to *Organization*, which indicates that the customer is a business customer.

The identifiers of imported locations are generated based on the numbering sequence specified in the **Location Numbering Sequence** box on the **Customer Settings** tab of the *Shopify Stores* form.

The contacts are assigned roles in the customer locations based on the roles the customers had in each of the locations in the Shopify store as follows:

- If the customer has the *Ordering only* role in the Shopify store, the contact is assigned the *User* role in Acumatica ERP.
- If the customer has the *Location admin* role in the Shopify store, the contact is assigned the *Admin* role in Acumatica ERP.

The **Locations** tab of the *Contacts* form shows the locations in which a contact is assigned a role. Similarly, the **Contacts** tab of the *Customer Locations* form shows all contacts that are assigned a role in a particular location.

If a customer associated with a company is deleted in the Shopify store after the company has been synchronized, during the next synchronization, the corresponding contact in Acumatica ERP becomes inactive. Similarly, if a location is deleted in the Shopify store, the corresponding customer location in Acumatica ERP becomes inactive.

Export of Business Customers

If the synchronization direction is set to *Export* or *Bidirectional* for the *Company* entity for the store on the **Entity Settings** tab of the *Shopify Stores* (BC201010) form, business customers can be exported to the Shopify store. Customers are exported only if the **Customer Category** box contains *Organization* on the *Customers* (AR303000) form.

During the export of a business customer, the system does the following in the Shopify store:

- Creates a company.
- Creates a company location for each customer location created for the business customer on the *Customer Locations* (AR303020) form.

If changes have been made to a location after the company has been synchronized, these changes are exported to the Shopify store during the next synchronization. However, if a location is deactivated or deleted in Acumatica ERP, the corresponding company location is not updated in the Shopify store.

- Creates a customer for each contact created for the business customer on the *Contacts* (CR302000) form and associates it with the company. The customers are assigned roles in the company's locations according to the contacts' roles in Acumatica ERP as follows:
 - If the contact has the *User* role in Acumatica ERP, the customer is assigned the *Ordering only* role in Shopify.
 - If the contact has the *Admin* role in Acumatica ERP, the customer is assigned the *Location admin* role in Shopify.

If changes have been made to a contact after the company has been synchronized, these changes are exported to the Shopify store during the next synchronization. However, if the contact is deactivated or deleted in Acumatica ERP, the corresponding customer is not updated in the Shopify store.

Import of an Order Placed on Behalf of a Company

Orders that a customer has placed in a Shopify store on behalf of a company are synchronized during the synchronization of the *Sales Order* entity. During the import of each order to Acumatica ERP, the system does the following:

- If the company for which the order has been placed has not yet been imported, imports it first along with its locations and contacts
- Creates a sales order on the Sales Orders (SO301000) form and inserts the following in the Summary area:
 - In the **Customer** box: The identifier of the company on behalf of which the order was placed
 - In the Contact box: The identifier of the customer that placed the order
 - In the **Location** box: The identifier of the location that was selected during the order placement
 - In the **Customer Order Nbr.** box: The identifier of the customer's purchase order if it has been specified in the **PO number** box on the order page in the Shopify store
- On the Addresses tab of the Sales Orders form, inserts the following:
 - The shipping address, based on the settings of the company's location that was selected during order placement
 - The shipping contact, based on the settings of the customer that placed the order
 - The billing details, based on the settings of the company's location that was selected during order placement

Export of an Order Placed on Behalf of a Company

In Acumatica ERP, a business customer is a customer for which **Customer Category** is set to *Organization* on the *Customers* (AR303000) form. Orders that have been created in Acumatica ERP for a business customer are exported to a Shopify store during the synchronization of the *Sales Order* entity. During the export of such an order, the system does the following in the Shopify store:

- If the business customer has not been synchronized yet, exports the business customer, as described in the *Export of Business Customers* section
- Creates an order as follows:
 - Specifies the business customer (which is exported to the Shopify store as a company) as the purchasing entity
 - Specifies the contact that was selected in the order in Acumatica ERP as the customer
 - Inserts the shipping and billing addresses from the location that was selected in the order in Acumatica ERP
 - Inserts the identifier of the customer's purchase order in the **PO number** box if it has been specified in the **Customer Order Nbr.** box in the Summary area of the *Sales Orders* (SO301000) form

Changes to the Customers, Customer Locations, and Contacts Forms

To support the new functionality, multiple changes have been introduced on the *Customers* (AR303000), *Customer Locations* (AR303020), and *Contacts* (CR302000) forms.

The UI elements described below appear only if both the *Shopify Connector* feature and the *Business-to-Business Entities* feature are enabled on the *Enable/Disable Features* (CS100000) form.

On the *Customers* form, a new box, **Customer Category**, has been added to the Summary area (see the screenshot below). During the creation of a customer, a user can select either of the following options in this box:

• Individual: The customer is an individual.

• Organization: The customer is a business.

For a customer imported from a Shopify store during the synchronization of the *Customer* entity, the customer is created on the *Customers* form with **Customer Category** set to *Individual*. For a company imported from a Shopify store during the synchronization of the *Company* entity, a customer is created on the *Customers* form with **Customer Category** set to *Organization*.

Customers Customization TOOLS - CO00000003 - Fruitico Coffee and Cakes													
ς μ μ	+ 🗊 🗘 - K K	> > VIEW ACCOUNT											
* Customer ID:	C00000003 - Fruitico Coffee and Cak $\mathcal P$	Balance:	0.00		^								
* Customer Status:	Active ~	Prepayment Balance:	0.00										
* Customer Class:	ECCUSTOMER - Online Customers $\ \ \mathcal{P}$	Retained Balance:	0.00										
Customer Category:	Organization ~												
GENERAL FINANCI	Individual Organization	ATIONS PAYMENT METHODS	CONTACTS	SALESPERSONS	ATTRIBUTES »								
ACCOUNT INFO		PRIMARY CONTACT											
* Account Name:	Fruitico Coffee and Cakes	Name:	Jane Smith	Q	0								
ACCOUNT ADDRESS		Job Title:											
	VIEW ON MAP	Email:	jsmith@example.com	ı 🗹									
Address Line 1:	4373 Hoffman Avenue	Business 1 🗸											
Address Line 2:		Cell 🗸											
City:	New York												
State:	NY - NEW YORK												
Postal Code:	10013												
* Country:	US - United States of America												

Figure: The Customer Category box on the Customers form

On the *Customer Locations* form, the **Contacts** tab has been added (see the following screenshot). The tab displays a table with the following columns:

- Contact: The contact that is associated with the customer's location
- Role: The role assigned to the contact in the location, which can be Admin or User

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0	Customer Locations C00000003 MAIN - 4373 Hoffman Avenue																
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*	Loc	ation	n ID:			MAIN	- 4373 H	offmar	n Ave	enue		ρ				Default	
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8	0		Cont	act			Role										
>	0		Jan	e Smit	h		User										
	0	D	<u>Coll</u>	een Pl	<u>unkett</u>		Admin										

Figure: The Contacts tab on the Customer Locations form

On the *Contacts* form, the **Locations** tab has been added (see the following screenshot). The tab displays a table with the following columns:

- Location: The customer location that the contact is associated with
- Role: The role assigned to the contact in the location, which can be Admin or User

Conta Colle	_{ets} een F	lunkett	- Fr	uitico	Coffee a	nd Cakes					ES FILES	CUSTO	MIZATION	TOOLS -	
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Cont	tact ID:			Colleen	Plunkett		Q	Bus	iness Account:	C00000	0003 - Fruitico (Coffee and	l Cak 🔎 🧷	^	
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Figure: The Locations tab on the Contacts form

Retail Commerce: Export of Price Lists to Shopify

In Acumatica ERP 2023 R2, it has become possible to export price lists defined in Acumatica ERP to the Shopify store.

This functionality is available if both the *Shopify Connector* feature and the *Business-to-Business Entities* feature are enabled on *Enable/Disable Features* (CS100000) form.

Catalogs are available to Shopify customers as part of the business-to-business functionality, which is included in the Shopify Plus subscription plan.

For more information about catalogs in Shopify, see *the Shopify documentation*.

The Price List Entity

To export price lists from Acumatica ERP to a Shopify store, the e-commerce manager first needs to activate the new entity, *Price List*, on the **Entity Settings** tab of the *Shopify Stores* (BC201010) form (which is shown in the following screenshot).

The new entity can only be exported to the external system (that is, its **Sync Direction** is set to *Export* and cannot be changed), and its primary system is *ERP*.

S	Shopify Stores Shopify SweetStore													
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Connector: Shopify ZActive														
	* Sto	ore Na	ame:	SweetStore		Q	🗸 Default							
CONNECTION SETTINGS ENTITY SETTINGS CUSTOMER SETTINGS INVENTORY SETTINGS ORDER SETTINGS PAYMENT SETTINGS SHIPPING														
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	0		ctive	Entity	Sync Direction	Primary System	Real-Time Import	Real-Time Export	Real-Time Mode	Max. Number of Failed Attempts				
	0		\checkmark	Customer	Import	External System	Not Supported	Not Supported	Prepare	5				
	0		✓	Company	Bidirectional	External System	Not Supported	Not Supported	Prepare	5				
	0	D		Customer Location	Import	External System	Not Supported	Not Supported	Prepare	5				
	0			Stock Item	Export	ERP	Not Supported	Stopped	Prepare	5				
	0		\checkmark	Non-Stock Item	Export	ERP	Not Supported	Stopped	Prepare	5				
	0	D	\checkmark	Template Item	Export	ERP	Not Supported	Stopped	Prepare	5				
	0	D		Product Image	Export	ERP	Not Supported	Not Supported	Prepare	5				
	0		\checkmark	Product Availability	Export	ERP	Not Supported	Stopped	Prepare	5				
	0		\checkmark	Sales Order	Import	External System	Stopped	Stopped	Prepare	5				
	0	D	\checkmark	Payment	Import	External System	Not Supported	Not Supported	Prepare	5				
	0	D		Shipment	Export	ERP	Not Supported	Stopped	Prepare	5				
	0			<u>Refund</u>	Import	External System	Stopped	Not Supported	Prepare	5				
>	0			Price List	Export	ERP	Not Supported	Not Supported	Prepare	5				

Figure: The new Price List entity on the Shopify Stores form

Filtering of Price List Prices

During the synchronization of the *Price List* entity, the system exports prices created on the *Sales Prices* (AR202000) form only if the prices meet the following criteria:

- Price Type is set to Customer Price Class, and the customer price class is specified in the Price Code column.
- In the **UOM** column, the sales UOM of the item is specified.

- If the *Multiple Warehouses* feature is enabled on the *Enable/Disable Features* (CS100000) form, no warehouse is specified in the **Warehouse** column.
- If the *Multicurrency Accounting* feature is enabled, the currency specified in the **Currency** column has been activated for a market in the Shopify store.
- If the Volume Pricing feature is enabled, Break Qty is set to 0 or 1.

Only prices that are effective on the date of the synchronization are exported. If both a regular price and a promotional price exist for the same item, customer price class, UOM, and currency, the promotional price is exported, whereas the regular price is skipped during the synchronization.

Export of Price Lists

During the synchronization of the *Price List* entity, the system creates a catalog in the Shopify store for each combination of the customer price class and currency. The name of the catalog is created as a combination of the customer price class ID followed by a hyphen and the currency code. For example, prices that have been defined for the *LOCAL* customer price class in *USD* and *CAD* will be exported to the *LOCAL-USD* and *LOCAL-CAD* catalogs in the Shopify store. Each exported price added to these catalogs is marked as a *fixed price*.

On the *Sync History* (BC301000) form, the system creates one synchronization record per customer price class. The **External Description** column lists all catalogs created in the Shopify store, and the **Last Message** column shows the number of price records exported to each of the catalogs (see the following screenshot).



Figure: The synchronization record of the exported price list

A customer price class can be assigned to a customer location on the *Customer Locations* (AR303020) form. If the location belongs to a business customer—that is, if **Customer Category** is set to *Organization* for the customer on the *Customers* (AR303000) form—during the synchronization of the *Price List* entity, the corresponding location in the Shopify store is added to the exported catalog.

Items, customers, and customer locations must be synchronized with the Shopify store before the price lists can be exported.

Any changes that have made to the exported catalog in the Shopify store are overwritten during the next synchronization of the price list.

If a price list has been exported and then a filter is created on the *Entities* (BC202000) form that excludes the price list from synchronization, during the next synchronization, the corresponding catalog in the Shopify store is not deleted but is instead assigned the *Archived* status.
Retail Commerce: Import of Shopify Fees

In Acumatica ERP 2023 R2, it has become possible to import the breakdown of fees charged on each payment made with Shopify Payments in a Shopify store.

Shopify fees can be imported only for payments that have been captured in the Shopify store. Also, this payment method must be mapped with a card-based payment method in Acumatica ERP that has been configured with a processing center based on the Shopify Payments plug-in.

Changes to the Shopify Stores Form

On the **Payment Settings** tab of the *Shopify Stores* (BC201010) form, the new **Shopify Fees** table has been added (shown in the following screenshot). The table includes the following columns:

- Fee Type: The type of the Shopify fee.
- ERP Entry Type: An entry type of the Disbursement type that has been defined in Acumatica ERP.
- **Entry Type Description**: The description of the entry type. (The column is populated automatically based on the **ERP Entry Type** column and is not available for editing.)
- **Transaction Type**: The type of the transaction the entry type was created for. (The column is populated automatically based on the **ERP Entry Type** column and is not available for editing.)

S	hopify Stores Shopify Sw	eetStore -	- KB										CUSTOM	IZATION	тос	DLS 🗸
÷		ک []	+		Û	~ !<	<	>	×	TEST CONN	ECTION					
	Connector: Shopify ZActive															
	* Store Name		Swee	etStore	KB				Q	Default						
	CONNECTION SETTINGS ENTITY SETTINGS CUSTOMER SETTINGS INVENTORY SETTINGS ORDER SETTINGS PAYMENT SETTINGS															
(ి +	× ⊷	x													
	Active	* Store Paym	ient Me	thod		* Store	Curren	су	ERP Pa Method	ayment I	Cash Account	Proc. Center ID	Release Payments and Refunds	Pro Ref	ocess funds	
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		AMAZON				USD										
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8	* Fee Type						ERP En	try Type		Entry Type	Description		Transaction	Туре		
>	processing_f	ee					SHOP	IFYFEE		Entry Typ	e for All Shopify F	ees	Disburseme	nt		

Figure: The Shopify Fees table on the Payment Settings tab

Changes to the Setup of Payment Import for Shopify Payments

A company can use Shopify Payments as a payment method in its Shopify store and set up the import of payments based on this payment method to Acumatica ERP. An administrator does this by mapping the Shopify Payments store payment method with an ERP payment method configured with a processing center based on the Shopify Payments plug-in. For this scenario, an additional configuration step is needed for the import of Shopify fees—

that is, the administrator needs to map Shopify fees in the table on the **Payment Settings** tab of the *Shopify Stores* (BC201010) form.

Initially, the **Shopify Fees** table is empty. During the first import of a payment containing Shopify fees, the synchronization fails, and the **Fee Type** column is populated with all Shopify fees. The administrator needs to map each Shopify fee type with an entry type by specifying the entry type in the **ERP Entry Type** column, and then syncing the payment again.

Entry types are defined on the *Entry Types* (CA203000) form. An entry type can be used in the fee mapping if it meets the following criteria:

- The entry type has the *Disbursement* type.
- A default offset account has been specified for the entry type.
- The **Deduct from Payment** check box is selected for the entry type.
- On the *Cash Accounts* (CA202000) form, the entry type has been added to the cash account specified in the mapping for the Shopify Payments payment method.

Shopify fees imported with the payment are grouped by entry type and are displayed on the **Charges** tab of the *Payments and Applications* (AR302000) form.

Retail Commerce: Enhanced Filtering and Mapping of Matrix Items

In Acumatica ERP 2023 R2, the support for mapping and filtering of matrix items exported to external systems has been enhanced.

Mapping of Matrix Items

On the **Export Mapping** tab of the *Entities* (BC202000) form, a number of changes have been made to the ERP objects and fields for the *Template Item* entity. These changes apply to both the Shopify connector and the BigCommerce connector.

When *Template Item -> Matrix* is selected in the **ERP Object** column, the list of ERP fields in the **ERP Field / Value** column now includes additional options (shown in the following screenshot).

Entities ← 🛱 🛱	Ø ···						
Connector: Store: Entity: EXPORT MAPPIN	BigCommerce SweetStore P Template Item Active G EXPORT FILTERING	Sync Direction: Primary System: Max. Number of Failed Att	tempts:	Export ERP	~ ~ 5	Real-Time Import: Real-Time Export: Real-Time Mode:	Not Supported Stopped Prepare
Ů + ×	H I 1	* External Field	* ERD Ob	iect		* CDD Field / Value	1
	External Object	External Field	Templat	e Items -> Matr	ix		,
						Availability Content Standard Cost Custom URL Default Price Description Dimension Weight Export to External System Item Class Item Status Type Inventory ID Last Cost Meta Description Meta Keywords MSRP Page Title Posting Class Price Class Search Keywords	

Figure: ERP fields for the Template Items -> Matrix ERP object

For the *Template Item* entity, the source objects and fields listed in the table below have also been added to the **ERP Object** and **ERP Field / Value** columns.

Table: New ERP Objects for the Template Item Entity

ERP Object	ERP Field / Value
Template Items -> Matrix -> Attributes	Attributes that have been added to matrix items on the <i>Stock Items</i> (IN202500) and <i>Non-Stock Items</i> (IN202000) forms

ERP Object	ERP Field / Value
Template Items -> Advanced	User-defined fields and custom fields that have been added to the <i>Template Items</i> (IN203000) form
Template Items -> Matrix -> Advanced	User-defined fields and custom fields that have been added to the <i>Stock Items</i> and <i>Non-Stock Items</i> forms

Suppose that a company uses a custom field (UsrOnlineSalesPrice) for prices that are relevant only for online sales of a matrix item, and that the corresponding box has been added to the *Stock Items* form. To export the prices from this box to a Shopify store during the synchronization of the *Template Item* entity, the user should define the mapping as shown in the following screenshot.

Entities	Entities													
Connector:	Shopify	Sync Direction:	Export	~	Real-Time Import:	Not Supported								
Store:	SweetStore - SP	Primary System:	ERP	~	Real-Time Export:	Stopped	Stopped							
Entity:	Template Item	 Max. Number of Failed A 	ttempts:	5	Real-Time Mode:	Prepare								
	Active													
EXPORT MAPPIN	G EXPORT FILTERING													
Ů + × ⊢ ⊠ t														
🖹 🛈 🗋 Active	*External Object	* External Field	* ERP Object		* ERP Field / Value									
> 0 D 🗹	Product -> Product Variants	Sale Price	Template Items -> Matr	ix -> Advanced	ItemSettings.UsrOnline	SalesPrice								

Figure: The mapping of a custom field

Filtering of Matrix Items

On the **Export Filtering** tab of the *Entities* (BC202000) form, multiple additional fields can now be used for filtering template items exported to external systems.

Suppose that a company needs to export to an external system only the template items of the *Finished Good* type. Now a user can define a filter to include only template items of this type in the synchronization. The following screenshot shows an example of such a filter.

Eı	Entities 5 🗒 🖄 🗥 …												
	Co	nnecto	or:	Shopify		Sync Direction:	Export ~	Real-Time Import:	Not Supported				
	Store:			SweetStore - SP		Primary System:	ERP ~ Real-Time Export:		Stopped				
	En	tity:		Template Item		Max. Number of Failed Attempts:	5	Real-Time Mode:	Prepare				
				Active									
E	XF	ORT	MAPPIN	IG EXPORT	FILTERING								
Ç)	+	×	→ <u>X</u>	t								
)		ctive	Opening Brackets	* Field Name	*Condition	Value	Value 2	Closing Operator Brackets				
>	9			-	Туре	Equals	Finished Good		- And				

Figure: A filter with a new available field

Retail Commerce: Other Improvements

In Acumatica ERP 2023 R2, multiple improvements to retail commerce functionality have been introduced, as described below.

Renamed UI Elements on Commerce-Related Forms

On the **Customer Settings** tab of the *BigCommerce Stores* (BC201000) and *Shopify Stores* (BC201010) forms, the **Customer Auto-Numbering** box has been renamed to **Customer Numbering Sequence**, and the **Location Auto-Numbering** box has been renamed to **Location Numbering Sequence**. (See the following screenshot.)

BigCommerce Stores BigCommerce Sweet		CUSTOMIZATION	TOOLS -					
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Connector:	BigCommerce			Active				
* Store Name:	SweetStore		Q	🗸 Default	Default			
CONNECTION SETTINGS	ENTITY SETTINGS	CUSTOMER SE	ETTINGS	INVENTORY SETTINGS	ORDER SETTING	GS 🔉		
CUSTOMER								
Customer Class:		P U	,					
Customer Numbering Tem	plate:							
Customer Numbering Seq	uence: ECCUSTOMER -	Customer N 🔎 🥖	,					
Location Numbering Temp	late:							
Location Numbering Sequ	ence: ECLOCATION - C	Customer Lo 🔎 🖉	,					
Generic Guest Customer:		P (,					
	Use Multiple Gu	lest Accounts						

Figure: The renamed boxes on the BigCommerce Stores form

Automatic Release of Imported Refunds

In previous versions Acumatica ERP, it was not possible to set up the automatic release of refunds imported from a BigCommerce store or a Shopify store. (A user could set up the automatic release of only payments imported from one of these stores.) Users had to manually release these refunds, which was inconvenient and time-consuming.

In Acumatica ERP 2023 R2, the **Release Payments** column of the *BigCommerce Stores* (BC201000) and *Shopify Stores* (BC201010) forms has been renamed to **Release Payments and Refunds** (see the following screenshot). Now if this check box and the **Process Refunds** check box are selected, an imported refund is released as the last step of the processing.

B	BigCommerce Stores BigCommerce SweetStore																
•			S	+	Û	¢	~	K	<	>	>I	TEST CO	ONNECTION				
	Connector			BigCo	mmerce	è						🗸 Activ	e				
	* Store Nam	ie:		Sweet	tStore						Q	🗸 Defa	ult				
	CONNECTI	ON SET	TINGS	E	NTITY S	ETTI	NGS	CL	JSTOM	ER SET	TTINGS	INVEN	TORY SETTINGS	ORDER SETTINGS	PAYMENT	SETTINGS	SHIPPING SETTINGS
(ల +	×	↔	X													
	Active	* Store	Payme	ent Meth	od		* Stor	e Curre	ency	ER Me	RP Paymethod	ent	Cash Account	Proc. Center ID	Release Payments and Refunds	Process Refunds	
>		CUST	OM (C	USTON	A)		USD			<u>0</u>	NLINE		<u>10250ST</u>				
		GIFT	CERTIF	FICATE	(GIFT_	C	USD			G	IFTCAR	<u>DS</u>	<u>10250ST</u>				
		AMAZ	ON				USD										
		AUTH	ORIZE	ENET (C	REDIT		USD										
		BRAIN	NTREE				USD										
		CHEC	QUE (O	FFLINE)		USD										
		COD	(OFFLI	INE)			USD										
		PAYP/	AL				USD										
		STOR	ECRE	DIT (ST	ORE_C		USD										
		STRIF	ΡE				USD										
		TEST	PAYM	ENT GA	ATEWAY	·	USD										

Figure: The renamed Release Payments and Refunds check box

Export of Ship Via Codes During Shipment Synchronization

In previous versions of Acumatica ERP, the carrier details were not available for mapping for the *Shipment* entity on the *Entities* (BC202000) form. As a result, during the synchronization of a shipment, the shipment tracking number was exported to an external system but was not displayed as a link to the carrier's shipment tracking page, even if a shipping carrier was set up with the correct details on the *Ship via Codes* (CS207500) form.

In Acumatica ERP 2023 R2, the mapping of the shipping carriers is supported. On the **Order Settings** tab of the *BigCommerce Stores* (BC201000) and *Shopify Stores* (BC201010) forms, the **Shipping Carriers** box has been added to the **Substitution Lists** section (shown in the following screenshot).

BigCommerce Stores BigCommerce SweetS	Store				CUSTOMIZATION	TOOLS -
ς Π Ω	+ 🗇 🗘 -	I< <	>	×	TEST CONNECTION	
Connector:	BigCommerce				 Active 	
* Store Name:	SweetStore			Q	🗹 Default	
CONNECTION SETTINGS	ENTITY SETTINGS	CUSTOME	R SET	TTINGS	ORDER SETTINGS	*
GENERAL						
* Branch:	RETAIL - Sweet	Life Store	0			
ORDER						
Order Type for Import:		ېر	0			
Order Types for Export:		~				
Return Order Type:		ې	0			
Refund Amount Item:		,	0			
Refund Reason Code:		۶,	0			
Order Time Zone:	(GMT-05:00) Ea	istern Time v				
Show Discounts As:	Line Discounts	~				
Gift Certificate Item:		ې	0			
Gift Wrapping Item:		ې	0			
	Tag Ext. Order	r with ERP Orde	r Nbr.			
Earliest Order Date:	~					
TAXES						
	Tax Synchroni	zation				
Default Tax Zone:						
	Use as Primar	ry Tax Zone				
SUBSTITUTION LISTS						
* Taxes:	BCCTAXCODES	۶ ۶)			
* Tax Categories:	BCCTAXCLASS	SES ,)			
Shipping Carriers:	BCCCARRIERS	S , , , , , , , , , , , , , , , , , , ,	>			

Figure: The new Shipping Carriers box on the BigCommerce Stores form

In the **Shipping Carriers** box, a user can select a substitution list that maps Ship Via codes with shipping carrier names. The user can select a predefined substitution list (*BCCCARIERS* for BigCommerce or *SPCCARRIERS* for Shopify) or create a new substitution list on the *Substitution Lists* (SM206026) form and then select it in this box. In the substitution list, Ship Via codes must be specified in the **Original Value** column, and shipping carrier names must be specified in the **Substitution Value** column.

During the synchronization of the *Shipment* entity with an external system, the retail-commerce connector checks whether a substitution value exists for the Ship Via code in the substitution list. If it exists, the connector will try to generate the tracking link based on the substitution value. If the Ship Via code does not exist in the substitution list or if no substitution list is selected in the **Shipping Carriers** box, the retail-commerce connector exports the Ship Via code as the carrier name. The link is generated if the Ship Via code matches the carrier name.

On the *Entities* form, a user can create a more flexible mapping for carrier names. To define a mapping, they need to select the objects and fields listed in the following table.

Connector	External Object	External Field
BigCommerce	Shipment -> Shipment Data	Tracking Carrier
Shopify	Shipment Data -> Fulfillment -> Tracking Info	Company

Export of the GTIN/EAN/UPC/ISBN Cross-Reference Type

In Acumatica ERP 2023 R1, the new *GTIN/EAN/UPC/ISBN* option was 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 this option in the column on the *Stock Items* form.)

Stock Items CINNAMON - Cinnan	non powder, packag	je of 1 lb			🗋 NOT	ES ACTIVITIES	
< ♥ ♥ ♥ \	+ 🗓 🗘 •	I< < > >I ·					
* Inventory ID: Item Status:	CINNAMON - Cinnamon p Active	powder, pack P Produce Produce	ct Workgroup: ct Manager:		م م		
Description:	Cinnamon powder, packa	ge of 1 lb					
GENERAL PRICE/CO	ST WAREHOUSES	VENDORS ATTRIBUT	ES PACI	CROS	S-REFERENCE	RELATED ITEMS	
Č + × ⊶	X						
🖹 Alternate Type	* Vendor/Customer	*Alternate ID	UOM	Description			
GTIN/EAN/UPC/ISBN		CNM1LB	<u>LB</u>	Cinnamon, 1 lb pa	ickage		
Vendor Part Number	TEACOMPANY	C15267	<u>LB</u>	Cinnamon			
Barcode		CNMN	<u>LB</u>				

Figure: The GTIN/EAN/UPC/ISBN alternate type of cross-reference

Version 2023 R2 introduces support for the export of this cross-reference type to the appropriate boxes of product pages in BigCommerce and Shopify.

During the export of a stock item, non-stock item, or template item to a BigCommerce store, the **Global Trade Item Number (GTIN)** box of the product page is filled in with the cross-reference of the *GTIN/EAN/UPC/ISBN* type for the sales unit of measure (UOM) of the item. If this cross-reference has not been defined for the item, the retailcommerce connector inserts the cross-reference of this type for the base UOM of the item. If neither cross-reference can be found, the box is not filled in.

Similarly, the **Product UPC/EAN** box of the product page of a BigCommerce store is filled in with the cross-reference of the *Barcode* type for the sales UOM of the item. If this cross-reference has not been defined for the item, the retail-commerce connector inserts the cross-reference of this type for the base UOM of the item. If neither cross-reference can be found, the box is not filled in.

During the export of a stock item, non-stock item, or template item to a Shopify store, the retail commerce connector determines the value to insert in the **Barcode (ISBN, UPC, GTIN, etc.)** box of the product page by searching in the following order of priority:

- 1. The cross-reference of the GTIN/EAN/UPC/ISBN type for the sales UOM of the item
- 2. The cross-reference of the GTIN/EAN/UPC/ISBN type for the base UOM of the item
- 3. The cross-reference of the *Barcode* type for the sales UOM of the item
- 4. The cross-reference of the Barcode type for the base UOM of the item

If none of these values can be found, the Barcode (ISBN, UPC, GTIN, etc.) box is not filled in.

System Administration: Ability to Restrict Action Visibility for Business Events

In Acumatica ERP 2023 R2, for business events of the *Trigger by Action* type, users can restrict the visibility of actions (and the corresponding commands in the **Actions** category of the More menu) that process all records on a generic inquiry form.

Displaying of Commands in the Actions Category of the More Menu

To specify which commands should be displayed on the generic inquiry form, an administrative user can use the new **Add Action to Process All** check box in the Summary area of the *Business Events* (SM302050) form (see the following screenshot).

Business Events Opportunity: Weekly	upcoming sales		🗋 NOT	ES FILES CUSTOMIZ	ATION TOOLS -
C □ □ O	+ 🖻 🗘 - K	< > >I VIEW S	SCREEN VIEW HISTORY		
* Event ID:	Opportunity: Weekly upcomin P	Active	* Screen Name:	DB Opportunities	^
Action Name:	Send Reminder	Add Action to Process All	Screen D.	G1000026	
Raise Event:	For Each Record ~				
Group Records By:					
Description:	Email sales about opportunities cl	osing next week			
SUBSCRIBERS					
Ů + × ↑	↓ CREATE SUBSCRIBER	→ ↔ <u> X </u>			
🖻 Active Type		Subscriber ID			Stop on Error
Email Notification	<u>n</u>	Email upcoming opport	unities to sales		

Figure: The Add Action to Process All check box

This check box is displayed only if *Trigger by Action* is selected in the **Action Type** box and a generic inquiry is selected in the **Screen Name** box.

If a user clears the check box, only the **<Action Name>** command that corresponds to the action will be displayed on the More menu (under **Actions**) of the generic inquiry form, as shown in the following screenshot.

[DB Opportunities CUSTOMIZATION - TOOLS - ¥												
	Ċ	\$		⊷ x									opportunities
-	AL	.L RE	COR	DS WOI	Actions	E NO ACTIVITY 90	+ OPPS L	AST 90	NO ACTIVITY 30 [DAYS (ME)	»		Customer View
Ľ	Drag	colur	nn he	ader here to	Send Reminder				Y	8		Q	
8	0	D		Opportunity ID	Subject	CROpportunity	Source	Status	Stage	Assignmen Date	Owner	Contact	
>	0			<u>OP000398</u>	840 Industrial Park Building 4	2,022,649.33	Other	Won	Won	12/1/2022	Maxwell Ba	Maxwell Baker	
	0			<u>OP000397</u>	Four Seasons Mixed Use Development	0.00		New	Prospect	11/23/2022	Maxwell Ba	Maxwell Baker	
	0			<u>OP000396</u>	Interested in new laptops	5,000.00	Other	Open	Nurture	7/1/2022	Maxwell Ba	Maxwell Baker	
	0			<u>OP000395</u>	Possible Future Service opportunity	10,000.00	Other	Open	Prospect	7/1/2022	Maxwell Ba	Maxwell Baker	
	0	D		<u>OP000394</u>	Food sales for Q4	29,545.00	Other	Open	Development	10/5/2021	Eric Killian	Eric Killian	
	0			<u>OP000393</u>	Opportunity for MGBASE Estimate	0.00		New	Prospect				
	0			<u>OP000392</u>	Widget Opportunity for Alta Ace	3,100.00	Other	Open	Solution	4/17/2020	Steve Church	Steve Church	
	0	۵		<u>OP000391</u>	Quote for custom order	10,000.00	Other	Open	Qualification				
	0			<u>OP000390</u>	Looking at new hardware for expansion	10,000.00	Campaign	New	Prospect	2/26/2020	Rick Dome	Rick Domenico	
	0			<u>OP000389</u>	Uprade to existing hardware	5,700.00	Campaign	New	Prospect	2/26/2020	Rick Dome	Rick Domenico	
	0	۵		<u>OP000388</u>	Build out of new offices	15,000.00	Campaign	New	Prospect	2/26/2020	Rick Dome	Rick Domenico	
	0			<u>OP000387</u>	Product Interest	2,000.00	Campaign	New	Prospect	2/26/2020	Rick Dome	Rick Domenico	
	0			<u>OP000386</u>	Potential distribution partnership	129,356.00	Campaign	Open	Prospect	2/7/2020	Eric Killian	Eric Killian	
	0			<u>OP000385</u>	Oil services opp	13,900.00	Organic S	New	Qualification	2/7/2020	Steve Church	Steve Church	
	0			<u>OP000383</u>	quick conversion	15,000.00	Organic S	New	Prospect	2/7/2020	John Kinne	John Kinne	
	0			OP000382	Product quote for widgets	1,500.00	Referral	New	Prospect	2/7/2020	Theo Valich	Theo Valich	
	0			OP000381	Fast moving opp for industrial equipment	2,500.00	Organic S	Open	Prospect	2/7/2020	Kachine Wil	Kachine William	

Figure: The <Action Name> command on the More menu

If the user selects the check box, the system displays the two commands in the **Actions** category of the More menu: **<Action Name>** and **<Action Name (All)** (see the following screenshot).

۵	B	Орј	port	unities							CUSTOMIZATION	I → TOOLS →	¥\$ Opportunitie
) AL	L RE	COR	Image: mage: mage: base WOI mader here to	Actions Send Reminder	E NO ACTIVITY 90)+ OPPS	LAST 90	NO ACTIVITY 30	DAYS (ME)	»	٩	Customer View
	0			Opportunity ID	Send Reminder (All)	CROpportunity	Source	Status	Stage	Assignmen Date	Owner	Contact	
>	0			<u>OP000398</u>	840 Industrial Park Building 4	2,022,649.33	Other	Won	Won	12/1/2022	Maxwell Ba	Maxwell Baker	
	0	۵		<u>OP000397</u>	Four Seasons Mixed Use Development	0.00		New	Prospect	11/23/2022	Maxwell Ba	Maxwell Baker	
	0	۵		<u>OP000396</u>	Interested in new laptops	5,000.00	Other	Open	Nurture	7/1/2022	Maxwell Ba	Maxwell Baker	
	0			<u>OP000395</u>	Possible Future Service opportunity	10,000.00	Other	Open	Prospect	7/1/2022	Maxwell Ba	Maxwell Baker	
	0	۵		<u>OP000394</u>	Food sales for Q4	29,545.00	Other	Open	Development	10/5/2021	Eric Killian	Eric Killian	
	0	۵		<u>OP000393</u>	Opportunity for MGBASE Estimate	0.00		New	Prospect				
	0			<u>OP000392</u>	Widget Opportunity for Alta Ace	3,100.00	Other	Open	Solution	4/17/2020	Steve Church	Steve Church	
	0	D		<u>OP000391</u>	Quote for custom order	10,000.00	Other	Open	Qualification				
	0	D		<u>OP000390</u>	Looking at new hardware for expansion	10,000.00	Campaign	New	Prospect	2/26/2020	Rick Dome	Rick Domenico	
	0			<u>OP000389</u>	Uprade to existing hardware	5,700.00	Campaign	New	Prospect	2/26/2020	Rick Dome	Rick Domenico	
	0	D		<u>OP000388</u>	Build out of new offices	15,000.00	Campaign	New	Prospect	2/26/2020	Rick Dome	Rick Domenico	
	0	D		<u>OP000387</u>	Product Interest	2,000.00	Campaign	New	Prospect	2/26/2020	Rick Dome	Rick Domenico	
	0			<u>OP000386</u>	Potential distribution partnership	129,356.00	Campaign	Open	Prospect	2/7/2020	Eric Killian	Eric Killian	
	0			<u>OP000385</u>	Oil services opp	13,900.00	Organic S	New	Qualification	2/7/2020	Steve Church	Steve Church	
	0			<u>OP000383</u>	quick conversion	15,000.00	Organic S	New	Prospect	2/7/2020	John Kinne	John Kinne	
	0			OP000382	Product quote for widgets	1,500.00	Referral	New	Prospect	2/7/2020	Theo Valich	Theo Valich	
	0	D		<u>OP000381</u>	Fast moving opp for industrial equipment	2,500.00	Organic S	Open	Prospect	2/7/2020	Kachine Wil	Kachine William	

Figure: The <Action Name> and <Action Name (All)> commands on the More menu

System Administration: Direct Sign-In to Acumatica ERP Through the Open ID Provider Platform

Acumatica ERP 2023 R2 introduces new functionality that enables users to set up a single sign-in connection to Acumatica ERP from the service platforms of the open ID providers. These platforms—such as OneLogin or OKTA—serve as a central hub for multiple applications and give users the ability to sign in to every application they need with just one sign-in to the platform.

Now a user who is signed in to the centralized service provider platform can sign in to Acumatica ERP with just one click on the Acumatica ERP icon, thus bypassing the Acumatica ERP Sign-In page.

Specifying the Initiate Login Link

To set up direct sign-in access to Acumatica ERP from the service platform without entering credentials on the Acumatica ERP Sign-In page, an administrative user registers Acumatica ERP on the service platform the company uses. Then on the *OpenID Providers* (SM303020) form of Acumatica ERP, an administrative user registers an open ID provider, as described in the *Configuration of an Open ID Provider* topic of the Integration guide. Once all the required configuration settings are specified and the provider record is saved, Acumatica ERP generates the unique sign-in link and displays it in the **Initiate Login URI** box in the Summary area of the *OpenID Providers* form, as shown in the following screenshot.

OpenID Providers ★				ES FILES (1)	CUSTOMIZATION	TOOLS -
🖫 v + 🗎 К	< > > D VIEW REDIRECT URI	VIEW PROVIDER METADATA				
* Display Name:	One Login D	ICON				^
Issuer Identifier:	https://testacuportal.onelogin.com/oidc/2	Recommended Size: Width 100px, Height 1	00px			
	✓ Active	Select an image to upload.	Browse	Upload		
* Client ID:	310d7440-d54f-013b-cd9e-0acd161404e1227062			-		
* Client Secret:	*******					
* Claim Type for User Identity:	sub v					
Scope for User Identity:	×					
Initiate Login URI:	https://rs-lt-006/OpenIDa/t/Comp COPY					
		← Ctrl				
		Icon File: OnonID Providers (Ono Login)		0.000		
		openio Providers (one Login)	Nonecogincog	o.prig		
AUTHENTICATION SETTINGS	USER BINDING RULES USER CREATION RULES	ROLE MAPPING RULES				
	AUTOCONFIGURATION					
* Authorization Endpoint:	https://testacuportal.onelogin.com/oidc/2/auth					
* Flow:	Implicit Flow (Form Post)					
Token Endpoint:	https://testacuportal.onelogin.com/oidc/2/token					
* JWK Set Location:	https://testacuportal.onelogin.com/oidc/2/certs					

Figure: The Initiate Login URI

An administrative user copies this link by clicking **Copy** next to the **Initiate Login URI** box and pastes it in the Acumatica ERP application configuration details on the service provider platform. (The place to paste the link may differ, depending on the service provider platform.)

Once the link is specified and saved on the service platform, the platform-authorized users can access Acumatica ERP directly by clicking the Acumatica ERP icon on the service platform application page. They need to sign in to

the provider service platform and click the Acumatica ERP icon to access Acumatica ERP without having to enter their credentials on the sign-in page.

System Administration: Enhancement of the Sign-In Procedure via External Providers

In previous versions of Acumatica ERP, on a user's first sign-in to an instance with multiple registered tenants, if the **Secure Tenant on the Sign-In Page** check box was selected on the *Tenant Setup* page of the Acumatica ERP Configuration Wizard, the user had to manually enter the tenant name to obtain the available providers from the selected tenant.

Now in Acumatica ERP 2023 R2, on the first sign-in, the instance will not prompt the user to manually enter the tenant name to obtain the available providers from the selected tenant if the provider configuration is the same across all tenants added to this instance. The user will be signed in to the first tenant that is available for them. In this case, the instance will automatically handle all the user-related operations, such as user creation, user association, and user binding. However, if at least one of the tenants has a different provider configuration, sign-in will proceed as it did in previous versions of Acumatica ERP: The instance will prompt the user to manually enter the tenant name to obtain the available providers from the selected tenant.

System Administration: Disabling the Widgets

In previous versions of Acumatica ERP, a malfunctioning widget could be added to a dashboard (for example, a widget that consumed a lot of memory, which led to a significant decrease in system performance, or a widget that produced errors affecting how the site works). To solve the issues, administrative users had to delete those widgets on the dashboards. However, in some situations, a dashboard could not even be opened in design mode due to the impact of the malfunctioning widget. In these cases, the widgets could only be deleted from the database by Acumatica ERP support engineers.

Starting in Acumatica ERP 2023 R2, an administrative user can find the list of widgets of any dashboard on the *Dashboards* (SM208600) form and disable any widget. Later, any of the disabled widgets can be enabled if needed.

Reviewing the List of Widgets of a Selected Dashboard

On the *Dashboards* (SM208600) form, the new **Widgets** tab has been implemented (see the following screenshot). On this tab, an administrative user can view the list of widgets available on the selected dashboard. For each widget, the user can view the following settings in the table columns:

- Active: If this check box is selected, the widget is enabled and shown on the dashboard; if it is cleared, the widget is disabled and not available on the dashboard.
- **Owner Name**: The name of the user that owns the widget (if any).
- Caption: The title of a widget on a dashboard.
- **Column**: The number of columns in a widget (if applicable to the widget type).
- Row: The number of rows in a widget (if applicable to the widget type).
- Widget Type: The widget type.
- **Source**: The generic inquiry specified as a source of the information shown in a widget.
- Widget Class: The widget class.

A + B D + K K	Dashboards								NOTES	FILES	CUSTOMIZATION	TOO	LS .
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												5	

Figure: The new Widgets tab

Disabling a Widget

Suppose that an administrative user wants to disable some widgets on the dashboard, which looks like the following screenshot shows.



Figure: Widgets on the dashboard

To disable any widgets, on the *Dashboards* (SM208600) form, the administrative user selects the name of the dashboard that has the widgets to be disabled in the **Name** box of the Summary area (see Item 1 on the following screenshot). Then on the **Widgets** tab, in the table, the user clears the check boxes in the rows of the widgets that should be disabled (Item 2). Finally, the user saves the changes by clicking **Save** on the form toolbar. Then the user can click the **View** button (Item 3) on the form toolbar to view the dashboard and review how the changes has been applied to it.

Dashboards							🗅 NOTES	FILES CUSTOMIZATION	TOOLS
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Owner Role	DashboardDesigner - Dashboard Designer	Q.	Site Map Title	AP Clerk					
	Allow Users to Personalize		Workspace:	Dashboards		م			
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0 H 0								All Records	
Active Owner Name	Caption	Column	Row Widget Type		Source	Widget Class			
	documents on hold	0	0 Key Performance I	indicator (KPI)	AP0001D8	PX Dashboards Widgets KPIScoreWidget			
	Total AP	0	4 Chart		AP0013DB	PX Dashboards Widgets PXChartWidget			
	AP Aging	0	3 Chart		AP0012DB	PX Dashboards Widgets PXChartWidget			
	AP Overdue	0	2 Key Performance	indicator (KPI)	AP0008DB	PX.Dashboards.Widgets.KPIScoreWidget			
	Documents to Release	2	0 Key Performance I	indicator (KPI)	AP0001D8	PX Dashboards Widgets KPIScoreWidget			
	cash Outflow for 7 days	0	2 Chart		AP0012DB	PX Dashboards Widgets PXChartWidget			
	Unreleased Documents in Prior M	1	0 Key Performance	indicator (KPI)	AP0001DB	PX Dashboards Widgets KPIScoreWidget			
	Vendor Purchasing Trends	0	3 Chart		AP0002DB	PX Dashboards Widgets PXChartWidget			
	Rejected Payments	2	1 Key Performance I	ndicator (KPI)	AP0003DB	PX Dashboards Widgets KPIScoreWidget			
	Bills to Pay	1	0 Key Performance I	indicator (KPI)	AP0004DB	PX Dashboards Widgets KPIScoreWidget			
	Payments to Approve	1	1 Key Performance	ndicator (KPI)	AP0005DB	PX Dashboards Widgets KPIScoreWidget			
	Documents to Approve	0	1 Key Performance	indicator (KPI)	AP0006DB	PX Dashboards Widgets KPIScoreWidget			
	Cash discount to take in 7 days	ì	1 Key Performance	indicator (KPI)	AP0007DB	PX Dashboards Widgets KPIScoreWidget			
	cash Outflow for 7 days	2	1 Key Performance	indicator (KPI)	AP0012D8	PX Dashboards Widgets KPIScoreWidget			
	Top 10 Overdue Balances	0	4 Chart		AP0008DB	PX Dashboards Widgets PXChartWidget			
	PO Receipts to Bill	0	0 Key Performance	indicator (KPI)	AP0009DB	PX Dashboards Widgets KPIScoreWidget			
P	Vendors on Payment Hold	2	0 Key Performance	indicator (KPI)	AP0010DB	PX Dashboards Widgets KPIScoreWidget			

Figure: The new Widgets tab

As a result, the selected widgets have been disabled and have disappeared from the dashboard (see the following screenshot).

AP Clerk				REFRESHALL DESIGN TOOLS .
0 DOCUMENTS TO RELEASE		10 100 2017 5 10 Mill	38 BILLS TO PAY	O VENDORS ON PAYMENT HOLD
0 DOCUMENTS TO APPROVE	D. PRYMENTS (O APPROVE	0 PAYMENTS TO PROCESS	O CASH DISCOUNT TO TAKE IN / DAYS	5.24M CASH OUTFLOW FOR 7 DAYS
TOTAL AP		TOP 10 OVERDUE BALANCES	n Pa. Vide CoA Returnis Supplies Forme Exection Water Provide Departure Service	A. Tor Scottin McCourter Computers McCourter Station No. No.

Figure: Dashboard view with the disabled widgets

A user can enable any of the disabled widgets as needed.

System Administration: The New Window Mode Options for Link Widgets

Acumatica ERP dashboards can contain widgets of the *Link* type, which are used to quickly navigate to needed forms. In previous versions of Acumatica ERP, when a user clicked a *Link* widget on a dashboard, the system opened the Acumatica ERP form in a new browser tab by default.

Starting in Acumatica ERP 2023 R2, while configuring a widget of the **Link** type, a user can define how the system should open the Acumatica ERP form: in the same browser tab, in a new browser tab, or in a pop-up window.

Specifying the Window Mode for the Link Widget

While configuring a link widget of a dashboard, a user can specify the needed window mode. On the dashboard, in design mode, the user clicks **Add a New Widget**. In the **Add Widget** dialog box (shown in the following screenshot), which opens, the user selects **Link** (Item 1) and clicks **Next** (Item 2).

 burdue 31-60 Sava 22,0238 burdue 31-60 Sava 3, 305,333 burdue saver 90 days 259,179 Add Widgel Add Widgel Select the widget you want to add to dashboard Chat Displays the chat using data from a pancular view Chat Table Displays the chat using data from a pancular view Chat Table Displays the chat using data from a pancular view Chat Table Displays the chat using data from a pancular view Chat Table Displays the chat using data from a pancular view Chat Table Displays the chat using data from a pancular view Chat Table Displays the chat using data from a pancular view Chat Table Displays the chat using data from a pancular view Chat Table Displays the chat using data from a pancular view Chat Table Displays the chat using data from a pancular view Chat Table Displays the chat using data from a pancular view Chat Table Displays the chat using data from a pancular view Chat Table Displays the chat using data from a pancular view Chat Table Displays the chat using data from a pancular view Chat Table Displays the chat using data from a pancular view Chat Table Displays the chat using data from a pancular view Chat Table Displays the chat using data from a pancular view Chat Table Displays the chat data changed from a pancular view With Page Chat Chat With Page 	 Develope 32-60 davie 22.622.389 Develope surf 80 davie 25.905.333 Develope surf 80 davie 25.905.000 Add Widgel Add Widgel Add Widgel Develope surf 80 davie 25.905.000 Add Widgel Develope surf 80 davie surf 80 davie for 80 davie f	11111010 1-10 MILLS - 1.2117 12000		*
A bendre avert 9 dass 259,178 Add Widgel Add Widgel Add Widgel Add Widgel Stock the widget you want to add to dashbaard Dear Table </td <td> burden over 30 days burden</td> <td>Overdue 31-60 days 22,938,538 Overdue 61-90 days 5,809,355</td> <td></td> <td>001</td>	 burden over 30 days burden	Overdue 31-60 days 22,938,538 Overdue 61-90 days 5,809,355		001
Add Widgel Second a a 0,000,000 a 0,00	 Add Widgel Solon of a start water of a start with a start of a start	Overdue over 90 days 259,178	15,009,000	
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Figure: The Link widget type in the Add Widget dialog box

In the **Widget Properties** dialog box, which opens, the user specifies the link widget settings, including the new window mode setting (see the following screenshot). The following options are available in the new **Window Mode** box:

- New Tab
- Same Tab
- Pop-Up Window

System Administration: The New Window Mode Options for Link Widgets | 234

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Overdue 31-90 days 22,638,538 Overdue 61-90 days 5,809,355 Overdue over 90 days 259,178				15,000,000	0 / 1
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Figure: The new Window Mode box in the Widget Properties dialog box

Once all needed settings are specified, the user clicks **Finish**.

System Administration: Notifications About the Growth of the System Queue

In previous versions of Acumatica ERP, system administrators needed to constantly monitor the status of system queues on the *System Queue Monitor* (SM302010) form to make sure the queues are not full. If a system queue is full, the corresponding functionality (which is business events, push notifications, or commerce real-time synchronization) stops working.

In Acumatica ERP 2023 R2, instead of constantly monitoring the queue, the system administrator can turn on notifications about the growth of the system queue, which are sent when the administrator-specified threshold is reached. These notifications can be sent by email, via SMS messages, or through mobile push notifications.

Turning On the Notifications

By default, the notifications about the growth of the queue are turned off. The system administrator can turn them on for each tenant individually. To turn notifications on, the system administrator does the following:

- 1. On the *System Queue Monitor* (SM302010) form, clicks **Notification Settings** on the form toolbar to open the **Notification Settings** dialog box.
- 2. In the **Notification Settings** dialog box, specifies the threshold and selects the way or ways the notification should be sent. If the number of messages in any of the system queues exceeds this threshold, for each selected way of delivery, the system will send a notification.
- 3. Optional: For each way of delivery, selects the template to be used for the notification. By default, the predefined template is selected for each way of delivery. The system sends the *admin* user an email, an SMS message, or a mobile push notification that is created by the respective template. The notification specifies the system queue, the number of messages in it, and the current size of the queue in kilobytes. The system administrator can create a custom template on the *Email Templates* (SM204003) or *Mobile Notifications* (SM204004) form.

The following screenshot shows the **Notification Settings** dialog box with the email notifications turned on. In this example, notifications will be sent if the number of messages in the queue exceeds 50% of the queue size, and the predefined notification template will be used.

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O ⊨ I					
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Figure: The Notification Settings dialog box

System Administration: Support of Intelligent Text Completion

Acumatica ERP 2023 R2 introduces intelligent text completion for forms that contain a rich text editor.

Use of Text Completion

With intelligent text completion, users can save effort when they are filling in information that is often repeated. For example, this functionality might ease the processes of requesting certain data or creating a support case.

When a system administrator enables the *Intelligent Text Completion* feature on the *Enable/Disable Features* (CS100000) form for the first time (as described in the next section), the system uses the built-in model. This model contains the most commonly used polite phrases (for example, *Could you please provide an update on ...*). The following screenshot shows the *Task* (CR306020) form with suggestions in the editor area.

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Figure: Suggestions provided by the built-in model

A user switches between suggestions by using the Up and Down arrow keys on the keyboard, and selects the needed string by using the Right arrow key. The user can ignore the suggestions and continue typing all the needed text.

To improve the quality of suggested text over time, the system generates text completion models that collect phrases that the user types and that use these phrases as training data. The system generates the models for each user separately, depending on the user's activity and phrases that are used most commonly.

By default, the system performs the generation of models for all users every week on Saturday. This default schedule is configured for the System company and is enabled for all tenants that are created. The system administrator can invoke the generation manually for certain users or for all users by using the new *Generate Models for Text Completion (SM508000)* form. Also, the system administrator can add a new schedule by using the **Schedules > Add** command on the form toolbar.

The following screenshot shows the *Generate Models for Text Completion (SM508000)* form. Notice that for the model for the *admin* user, the system shows the date and the result of the last generation.

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Ö	→ X					
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Figure: The Generate Models for Text Completion form

This form is available for only users to whom the *Administrator* or *Acumatica Support* roles have been assigned.

If multiple tenants are created for the Acumatica ERP instance, the system generates separate models for each tenant. If more than one locale is specified for an instance, the system generates a single model for all locales.

Turning On and Turning Off Text Completion

Intelligent completion must be set up at the system level in order to be used by any user. It can be turned off at the system level and for each individual user.

To turn on intelligent text completion at the system level, the system administrator must enable the *Intelligent Text Completion* feature, which is listed under **Experimental Features** on the *Enable/Disable Features* (CS100000) form.

A user can turn off this functionality by clearing the **Intelligent Text Completion** check box in the **Personal Settings** section on *User Profile* (SM203010). When a user clears this check box, the text completion is turned off for only this particular user. (By default, the check box is selected for all users after the system administrator enables the *Intelligent Text Completion* feature.)

The feature is supported for forms (including custom forms) that contain boxes and areas with a rich text editor, such as the *Activity* (CR306010) and *Event* (CR306030) forms.

Usability: Enhanced Delivery of Built-In Infotips

In Acumatica ERP, a user can quickly learn about a UI element (such as a box, check box, or option button) by hovering over its label and clicking the question mark that appears. The system opens an infotip, which is a pane with information and links about the UI element. The infotip pane partially overlaps the working area on the right side of the screen.

In previous versions of Acumatica ERP, the infotip pane provided the UI element's complete description (see Item 1 in the following screenshot) and the link to the Help topic with information about the form's elements (Item2).

Search	<u>م</u> ی					SweetLife Fruits & Jams SweetLife Head Office and Wh.	✓ 7/12/2023 12:44 PM ✓ ⑦ ▲ Kimberly 01_U100
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ITEM DEFAULTS			Base Unit	PIECE	/ Divisable Unit		requisitions. It can, however, be used in sales documents and inventory
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Figure: Infotip pane in previous versions of Acumatica ERP

In Acumatica ERP 2023 R2, the infotip pane has been enhanced to give users a variety of ways to learn more. Additional sources of information have been added to make a wide range of information available to the user.

The Enhanced Infotip Pane

For more efficient use of the space in the infotip pane, the beginning of a lengthy description is initially shown, but a user can quickly view the entire description by clicking the *Show More* link (see Item 1 in the following screenshot). When the user clicks *Show More*, the text of description is expanded.

The infotip pane now displays the following sections (Item 2) after the UI element description:

- Activities: A list of how-to Help topics with configuration or process activities that may be performed on the current form
- **Related Information**: A list of Help topics that contain conceptual information related to the functionality of the current form
- Form Reference: A link to the Help topic with descriptions of the current form's UI elements
- Help Dashboard: Links to the Acumatica ERP educational resources (Help portal) and to the Acumatica ERP news and announcements page
- DAC Details: A link to the corresponding DAC in the DAC Schema Browser



This section is available only for users with the *Administrator*, *Report Designer*, or *Customizer* user roles.

If any of these sections has more than three links to show, the section shows the first three links, followed by the *Show More* link. When a user clicks **Show More**, the list is expanded.

Search	্ ৩						Sweet	Life Fruits & Jams ife Head Office and Wh.	✓ 7/12/2023 1:10 PM	③ A Kimbert 01_U100
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Figure: New appearance of the infotip pane

Integration Development: Sliding Expiration of Refresh Tokens

In previous versions of Acumatica ERP, a user had to reauthorize a connected application to work with Acumatica ERP every 30 days. In Acumatica ERP 2023 R2, a developer can configure the sliding expiration of refresh tokens for the connected applications.

How to Configure the Sliding Expiration

On the *Connected Applications* (SM303010) form, for any connected application that has the *Authorization Code*, *Resource Owner Password Credentials*, or *Hybrid* flow, a developer can select the *Sliding Expiration* mode in the **Refresh Tokens** section in the Summary area, as shown in the following screenshot. The developer can also specify the length of the sliding lifetime and indicate whether the refresh tokens for the application have an absolute lifetime.



Figure: Sliding Expiration mode

How the Sliding Expiration Works

When a user grants the offline_access scope (along with the api or openid scope) to a connected application, the application receives a refresh token and an access token. The application then can access data in Acumatica ERP during a specific period of time, which is specified in the response that returns the access token. When the access token expires, the client application can request a new access token by providing the refresh token to the token endpoint. The refresh token can be provided anytime within 30 days of the first issuing of the token.

If during these 30 days, the connected application provides the refresh token to the token endpoint, the period of time for which the new refresh token is valid is extended for the time that is specified in the **Sliding Lifetime (Days)** box on the *Connected Applications* (SM303010) form, as shown in the following diagram. The lifetime of the refresh token can be extended multiple times by the period of the sliding lifetime until the total lifetime of the refresh token from its initial issuing exceeds the number of days that is specified in the **Absolute Lifetime (Days)** box. If the **Infinite** check box is selected for the absolute lifetime, the lifetime of the refresh token can be extended endlessly.



Figure: Lifetime of refresh tokens with sliding expiration

Platform API: Improvements to the PK.Find Method

In Acumatica ERP 2023 R2, a new optional parameter, options, has been introduced in the PK. Find method. By using this parameter, developers can specify whether the Dirty cache can be used, as well as whether the global cache should be used.

The introduction of this new parameter has caused multiple changes in the PK. Find methods of the application code, which are listed in the *Removed Methods* section of the Reference List of Changes chapter of Release Notes for Developers. If a developer has used any of the modified PK. Find methods, they need to recompile the extension library of their customization project without any changes.

Use of the Dirty Cache

In previous versions of Acumatica ERP, a developer could not put the record returned by the PK. Find method in the cache including the Current property of the cache; the developer also could not change the returned record. Now a developer can specify whether the Dirty cache should be used, which gives the developer the ability to utilize the record returned by the PK. Find method in any place, including the cache.

To specify that the records marked as Dirty in the cache (that is, updated, inserted, or deleted in the cache) should be included in the query result, the developer should specify the PKFindOptions.IncludeDirty flag when calling the Find method. An example is shown in the following code.

Ignoring of the Global Cache

If a developer wants to retrieve a record from the cache and exclude the result from the global cache, they can provide the PKFindOptions.SkipGlobalCache value for the options parameter. Ignoring the global cache may be needed, for example, when a record has been modified by multiple graphs at a time, and the developer needs to retrieve a record that has been modified by one of them. Because the global cache is updated only once during a round trip to the server, the modified value of the record is not stored in the global cache.



The use of the IncludeDirty option also ignores the global cache.

Web Services: New System Endpoint

Acumatica ERP 2023 R2 introduces the new *Default/23.200.001* system endpoint, which is shown on the *Web Service Endpoints* (SM27060) form in the following screenshot. The new endpoint uses Contract Version 4.

Web Service Endpoints Default 23.200.001 ← □ □ + DE	CUSTOMIZATION	TOOLS -				
* Endpoint Name: Default	Q	* Endpoint Version	23.200.001	٩		
+ WISERT	ENDPOINT PROPER	RTIES				
 ENDPOINT Account AccountDetailsForPeriodInquir AccountGroup AccountSummaryInquiry Activity Appointment Mill Budget BusinessAccount Carrier Case CashSale ChangeOrder ChangeOrderClass Check 	 Endpoint Name: Endpoint Version: System Contract: 	Default 23.200.001 4	Bas Bas	e Endpoint Name: e Endpoint Version:		

Figure: New system endpoint

The following sections list the changes to the entities, fields, and actions of the new endpoint as compared to the *Default/22.200.001* endpoint. For a detailed list of changes, see *Changes to the Entities, Fields, and Actions of the Default/23.200.001* Endpoint as Compared to the Default/22.200.001 Endpoint.

CRM

The following changes related to customer relationship management have been made:

- The SkipLineDiscounts field has been added to the OpportunityProduct entity.
- The CreateContactFromBusinessAccount action has been added to the BusinessAccount entity.
- The CreateAccountFromContact action has been added to the Contact entity.
- The CreateContactFromCustomer action has been added to the Customer entity.
- The CreateContactFromVendor action has been added to the Vendor entity.
- The list of parameters of the ConvertLeadToBAccount action of the Lead entity has been changed.
- The ConvertLeadToContact and ConvertLeadToOpportunity actions of the Lead entity now have parameters.
- The CreateContactFromOpportunity action of the Opportunity entity now has parameters.
- The list of parameters of the CreateAccountFromOpportunity action of the Opportunity entity has been changed.
- The Relations field, which provides access to the RelationDetail entities, has been added to the SalesOrder entity.

Field Services

The LastModifiedDateTime field has been added to the following entities: Appointment and ServiceOrder.

Finance

The following finance-related changes have been made:

- The LastModifiedDateTime field has been added to the CustomerContact entity.
- The TrialBalance entity has been removed.
- The IsCCPayment field and the Charges field, which provides access to the PaymentCharge entities, have been added to the Payment entity.

Inventory and Order Management

The following changes related to inventory and order management have been made:

- The LastModifiedDateTime field has been added to the following entities: InventoryAdjustment, InventoryIssue, KitSpecification, PurchaseReceipt, SalesInvoice, and Warehouse.
- The SubItems field has been removed from the StockItem entity. The SubItemStockItem detail entity, which was available through this field, has also been removed.
- The OrderRisks field, which provides access to the OrderRisks entity, has been added to the SalesOrder entity.
- Multiple fields have been renamed in the StorageDetailsInquiry and StorageDetailsByLocationInquiry entities.
- The NonStockPickingLocationID and UseItemDefaultLocationForPicking fields have been added to the Warehouse entity.

Projects and Construction

The following changes related to projects and construction have been made:

- The LastModifiedDateTime field has been added to the AccountGroup entity.
- The ReleaseRetainage action, which creates the retainage AP document, has been added to the Bill entity. This action is available only in the API —that is, it is unavailable on the *Bills and Adjustments* (AP301000) form. For an example of how to use the action, see *Release Retainage*.
- The Subcontract top-level entity has been added. The entity includes information about all of the following:
 - Subcontract details (in the SubcontractDetail entity)
 - Tax details related to the subcontract (in the SubcontractTaxDetail entity)
 - Vendor contract (in the SubcontractVendorContractInfo entity)
 - Vendor address (in the SubcontractVendorAddressInfo entity)

The entity also provides the following actions: ReleaseFromHold and PutOnHold.

- Multiple fields have been added to the Project entity and its linked and detail entities.
- In the Project entity, the ProjectManager field is now mapped to the **Project Manager** box on the *Projects* (PM301000) form. Previously, the ProjectManager field was mapped to the **Time Activity Approver** box on the *Projects* form. Now the **Time Activity Approver** box is available as the Project.ProjectProperties.TimeActivityApprover field.

• The Retainage field has been moved from Project.BillingAndAllocationSettings to Project.Retainage.

Retail Commerce

For the Contact, Customer, CustomerLocation, Payment, and SalesOrder entities, the fields that were previously available only in the *eCommerce/22.200.001* endpoint have been added.

Web Services: Retrieval of Reports Through the REST API

In previous versions of Acumatica ERP, it was impossible to retrieve a report through the REST API. In Acumatica ERP 2023 R2, a developer can create a custom endpoint or extend an existing endpoint with an entity of the new *Report* type and use this entity to obtain the report from Acumatica ERP.

Adding a Report Entity to an Endpoint

On the *Web Service Endpoints* (SM207060), the developer performs the following general steps to add a *Report* entity to an endpoint:

- 1. Extends an existing endpoint or adds a new endpoint, as described in *To Extend an Existing Endpoint* or *To Create a Custom Endpoint*.
- 2. In the endpoint, adds the entity of the *Report* type, as shown in the following screenshot.

Web Service Endpoints Report 0001			CUSTOMIZATION TOOLS -
← □ □ · · +			
* Endpoint Name Repo	n ,o	Endpoint Version 0001 ,0	
+INSERT	ENDPOINT PROPER	nes	
Endpoint	Endpoint Name Endpoint Version System Contract	Rr Create Entity × 4 • Object Name CashAccountSummary > Object Type Report ~ Screen Name Cash Account Summary P Screen ID CA633000	
		OK CANCEL	

Figure: Adding a Report entity

3. On the **Fields** tab, specifies the parameters that should be specified to run the report. By default, the tab is populated with the fields for each parameter of the report.

Requesting the Report

To obtain the report from Acumatica ERP, the developer executes an HTTP request that satisfies the following requirements:

• HTTP method and URL: The developer sends the POST HTTP method to the following URL.

```
POST http://<Endpoint URL>/<Report entity>
```

For example, suppose that the created endpoint has the *http://localhost/AcumaticaDB/entity/Report/0001/* URL and the name of the report entity is *CashAccountSummary*. The developer would use the following HTTP method and URL.

POST http://localhost/AcumaticaDB/entity/Report/0001/CashAccountSummary

- Request headers: In the Accept header, the developer specifies the format in which the report should be returned. The format (and the respective header value) can be one of the following:
 - **PDF**:application/pdf
 - HTML:text/html
 - Excel: application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
- Request body: In the request body, the developer specifies the parameters of the report in JSON format, such as in the following example.

```
{
   "CompanyBranch": {"value": "SOFT"},
   "IncludeNonClearedTransactions": {"value": true}
}
```

If no parameters are specified in the request body, the default parameters of the report are used.

The response of a successful request has the 202 Accepted status and includes the Location header, which specifies the URL that the developer should use to obtain the requested report by using the GET HTTP method. When the report is ready, this GET request returns the 200 OK status code. The requested report is returned in the response body.

Web Services: Migration to .Net Core

In Acumatica ERP 2023 R2, the changes described in this topic have been made to support .Net Core in the web services.

Removal of SOAP Support

Contract Versions 2 and 3, which supported the SOAP API, have been removed. The removal of these contract versions affects endpoints as follows:

- System endpoints with Contract Versions 2 and 3, which are *Default/17.200.001* and *Default/18.200.001*, respectively, do not work.
- Custom endpoints with Contract Version 2 and 3 are no longer supported.

Removal of Obsolete Toolbar Commands

The following commands have been removed from the More menu of the Web Service Endpoints (SM207060) form:

- **WSDL**: Because the system does not provide SOAP endpoints anymore, WSDL descriptions of the endpoints are not used.
- View Maintenance Service: The SOAP maintenance service is no longer provided.

Detailed Error Information

If an error occurs, the REST API always returns a detailed error description in the response body, regardless of the web.config settings. The detailed error description includes the exception message, exception type, and stack trace.

Unsupported XML Payloads

For the authentication endpoint and the root endpoint, which can be used to obtain the Acumatica ERP version and the list of contract-based endpoints available in this version, XML payloads are no longer supported. That is, a developer cannot use the following values as the Accept and Content-Type headers in the requests to the REST API: application/xml and text/xml.

Web Services: Product Configurator in the Manufacturing Endpoint

In previous versions of Acumatica ERP Manufacturing Edition, a developer could not work with the manufacturing product configurator through the contract-based API. In Acumatica ERP Manufacturing Edition 2023 R2, the new *MANUFACTURING/23.200.001* endpoint includes the ConfigurationEntry entity, which provides access to the functionality that is available for users on the *Configuration Entry* (AM306000) form. The developer can use this entity during implementation of the data maintenance and sales configuration scenarios, such as the following:

- The setup of the product configurator during submission of data from a legacy system or third-party application. The automated setup through the API eliminates the need for manual entry of the data for the product configurator.
- For an external application, the retrieval of features and options from Acumatica ERP Manufacturing Edition to expose them to a user and the submission of the user-selected features and options to Acumatica ERP Manufacturing Edition.

In the following sections, the developer can find examples of requests for retrieval and update of a configuration entry.

Retrieval of a Configuration Entry

A developer can use the following request example to retrieve the configuration entry with the *AMC000001* ID through the contract-based REST API.

```
GET /entity/MANUFACTURING/23.200.001/ConfigurationEntry/AMC000001?
    $expand=Attributes,Features/Options HTTP/1.1
Host: [<Acumatica ERP instance URL>]
Accept: application/json
Content-Type: application/json
```

Update of a Configuration Entry

A developer can use the following request example to submit a configuration entry through the REST API.

```
PUT /entity/MANUFACTURING/23.200.001/ConfigurationEntry HTTP/1.1
Host: [<Acumatica ERP instance URL>]
Accept: application/json
Content-Type: application/json
{
    "ProdOrderNbr": {"value": "AM000022"},
    "ProdOrderType": {"value": "RO"},
    "ConfigResultsID": {"value": "5"},
    "ConfigurationID": {"value": "AMC000003"},
    "Features": [
        {
            "FeatureLineNbr": { "value": 1 },
            "ConfigResultsID": { "value": "5" },
            "Options": [
                {
                    "FeatureLineNbr": { "value": 1 },
                    "OptionLineNbr": { "value": 1 },
                    "ConfigResultsID": { "value": "5" },
                    "Included": { "value": true }
```

Workflow: Dialog Box Enhancements

Acumatica ERP 2023 R2 introduces improvements to the dialog boxes that are used in workflows. The changes include the following:

- Support of fields with a rich text editor
- Support of conditions for fields marked as required

Workflow UI: Dialog Box Enhancements

This topic describes how to configure new enhancements of the dialog boxes using the Workflow UI.

Addition of Rich Text Editor Fields

The customizer might want to require the users to enter certain text in elements in the dialog boxes that are opened when the status of an entity on a form changes. With the new functionality, the user can enter text in various formats—that is, all formats supported by a rich text editor.

To add to a dialog box a field with the rich text editor support, in the Customization Project Editor, in the **Dialog Box Fields** table on the *Dialog Boxes* page the customizer selects [*RichTextEditor*] in the **Schema Field** column. The following screenshot shows settings to add the Comments field (which corresponds to the box with the same name) to the dialog box that the system displays when the user closes a case.

Customization Project E	ditor											Back	Reload
File Publish Extension Library	Source Control												
WorkflowUpdates •	CR306000 (Cases) Dialog	Boxes											
 SCREENS CR306000 	の 聞 ウ ~ PREVIEW DIALOG BOX ····												
Actions Event Handlers	Dialog Boxes ひ + ×	Title: Dialog Box Name: Status:		Details	ails		Number of Columns: 0		0			^	
Fields Conditions	Dialog Box Name			FormClose Modified		Actions: Close							
Workflows Dialog Boxes (1, intrented 2) Data Access	FormOpen FormPendingCustomer	Dialog Box Fields C + × ↑ L content of MeLter											
Code Files	10100000	🗟 Ac	* Schema Field		* Field Name	* Title	From Schema	Default Value	Required	Hidden	Column Co Span Siz	ntrol te	Status
Generic Inquiries			PX.Objects.CR.CR	Case resolution	Reason	Reason		Resolved	True		1		Inherited
Dashboards Site Map Database Scripts System Locales Import/Export Scenarios Shared Filters Access Rights		3 M	[Rich TextEdit]		Comments	Comments					0		New
vvikis Web Service Endpoints Analytical Reports Push Notifications Business Events Mobile Application User-Defined Fields Webhooks Connected Applications													

Figure: Selection of a rich text editor field

When the user clicks **Close** on the More menu (under **Processing**) on the *Cases* (CR306000) form to close a case, they can enter a comment in the text area. They can then use the buttons on the formatting toolbar to format the text (such as using lists and changing the font) and to insert images, links, and tables (see the following screenshot).

Cases 000001 - Billing plar	า							🕒 NOT	ES FILES	CUSTOMIZATION	TOOLS -
< ₽ ₽ ∽	+ 0	× 🔟	K K	> >I	CLOSE	••					
Case ID:	000001	Q	* Class ID:		SERVCONS	6 - Services C	consulting $ \mathcal{P} $	0	Status:	Open	^
Date Reported:			* Business	Account	C00000000	1 - Jersev Cer	ntral Office F . Q	1	Reason:	In Process	~
Last Activity Date:		Details							× _{erity:}	High	~
SLA:		* Reason		Resolved		~			rity:	High	~
Closing Date:		Comme	nts:								
DETAILS ADDITION	IAL INFO A	VISU	AL 🕶 🖍	🗘 Paragra	aph 🔹 🖪	I ⊻	• <u>A</u> •	ş	Training		
BUSINESS ACCOUNT DE	Closir	Closing remarks from the customer: • Training session is required • Billing system needs improvement						Align Text Lei	ft		
* Business Account:	C00000001								Numbered Li	st	
Contract:							OK	с ~	Bulleted List		
BILLING					opon.		01100111	_	Increase Inde	ent	
	Sillable Ove				rtime Spent:		0 h 00 m		Decrease Ind	lent	
	Manual Ove	rride	de Resolution Time: 1082 h 65 m						Text Paste M	ode	
Billable Time:	0	Last Incoming Activity: Last Outgoing Activity:					Insert				
Billable Overtime:	0:00						Layout				
							Active		Tables		
								_			

Figure: Formatting of the comment in the dialog box

Support of Conditions for Required Fields

In Acumatica ERP 2023 R1 and earlier versions, the customizer could mark fields in dialog boxes as required by selecting the check box in the **Required** column in the **Dialog Box Fields** table on the *Dialog Boxes* page.

In Acumatica ERP 2023 R2, the customizer can specify a condition that causes a field to be required if it is met. If any conditions are specified on the *Conditions* page for the screen, they are now available for selection in the **Required** column. In this column, the customizer can instead select *True* or *False* to indicate that the field is always required or is never required, respectively.

The following screenshot shows the selection of the *CaseClosed* condition for the *Comments* field of the dialog box that the system displays when the user closes a case.


Figure: Selection of the condition for the field to be required

Workflow API: Dialog Box Enhancements

This topic describes how to configure new enhancements in dialog boxes by using Workflow API.

Addition of Rich Text Editor Fields

To add to a dialog box a field with rich text editor support, when adding the dialog box field to the configuration of a dialog box, a developer needs to call the WithRichTextEditorField() method. For example, suppose that the developer wants to display a rich text box in the dialog box. The code for adding the field to the configuration of the dialog box is shown in the following example.

```
.WithFields(fields =>
{
    fields.Add(_fieldReason, field => field
    .WithRichTextEditorField()
    .Prompt("Reason")
    .DefaultValue(defaultValue));
}
```

The WithRichTextEditorField method must be placed first in the list of configuration methods. Also, when the WithRichTextEditorField method is used, the WithSchemaOf method cannot be used.

Support of Conditions for Required Fields

In Acumatica ERP 2023 R1 and earlier versions, a developer could mark fields in dialog boxes as required by calling the IsRequired() method when adding the field to the configuration of the dialog box.

In Acumatica ERP 2023 R2, the developer can also specify a condition that causes a field to be required if it is met. To do this, the developer can call the IsRequiredWhen() and provide the condition as a parameter.

For example, suppose that the developer wants to display the box that corresponds to the CRCase.resolution field only when the IsCaseClosed condition is true. The following code shows an example in which this field is added to the dialog box configuration.

```
.WithFields(fields =>
{
   fields.Add(_fieldReason, field => field
    .WithSchemaOf<CRCase.resolution>()
    .Prompt("Reason")
    .DefaultValue(defaultValue)
    .IsRequiredWhen(IsCaseClosed));
}
```

Workflow: Support of Workflow-Identifying Fields of the Second Level

Previously, a customizer could create multiple workflows for a form only by specifying a workflow-identifying field (a type identifier). In Acumatica ERP 2023 R2, the customizer can specify a workflow identifier of the second level (a subtype identifier). As a result, the customizer can create a workflow for each pair of the type identifier value and the subtype identifier value.

 \triangle

It is possible to specify the subtype identifier only if the type identifier for this workflow is specified in the code (by using Workflow API).

The new functionality provides greater flexibility for the creation of customized and custom workflows. In an outof-the-box system, a customizer can create workflows using the subtype identifier on the following forms:

- Sales Orders (SO30100)
- Purchase Orders (PO301000)
- Purchase Receipts (PO302000)

On other forms of Acumatica ERP, the customizer can implement multiple workflows first by using the type identifier, and, if needed, by using the subtype identifier.

Workflow UI: Support of Workflow-Identifying Fields of the Second Level

This topic describes how a workflow-identifying field of the second level can be implemented by using Workflow UI.

In the Customization Project Editor, the customizer can define workflow selection to be based on the value of a type identifier and then further based on the value of the subtype identifier. A workflow defined for the subtype identifier value inherits its configuration from the workflow defined for the type identifier value. The following diagram shows the types and subtypes of workflows based on their workflow-identifier field values.



Figure: Types and subtypes of workflows

In the Customization Project Editor, the customizer uses the **Subtype Identifier** box on the *Workflows* page to the specify the workflow-identifying field of the second level. This box appears on the page only if the workflow-identifying field for the workflow has been specified in the code.

Support of the Workflow Subtype: Sales Order Example

In Acumatica ERP, the workflows for the *Sales Orders* (SO30100) form are based on the predefined automation behavior, which can be one of the following:

- Sales Order
- Transfer Order
- Invoice
- Quote
- Credit Memo
- RMA Order
- Blanket Order
- Mixed Order

i

The customizer cannot create custom automation behaviors.

On the *Order Types* (SO201000) form, the customizer can create multiple order types that are based on the same automation behavior. Suppose that the customizer has created two custom order types (*T1* and *T2*) that are based on the *Sales Order* automation behavior.

In previous versions of Acumatica ERP, it was not possible to create separate workflows for these custom order types, because for a particular order type, the system used the workflow of the automation behavior this order type was based on.

In Acumatica ERP 2023 R2, for each form that has a workflow-identifying field specified in the predefined system workflow (as is the case with the *Sales Orders* form), the customizer can select a workflow-identifying field of the second level (the Order Type field in the following screenshot).

Customization Proje	ect Ed	litor						Back	Reload
File Publish Extension I	library	Source Co	introl						
SalesOrderTypes	• S(D301000 (Sa	les Orders) Work	flows					
✓ SCREENS	0	E	ADD WORKFLO	wo					
Actions	State Identifier: Type Identifier:			Status Behavior		Subtype Identifier:	9	~ ^	
Fields						Allow Users to Modify Su			otype
Conditions				Allow Users to Modify Type					
 Workflows Dialog Boxes 	Ċ	×							
Data Access Code	[1]]	Active	Workflow Type	Workflow Subtype	Workflow Name	Base System	n Workflow	Status	
Files			MO	DEFAULT	MO workflow			System Reado	only
Generic Inquiries			BL	DEFAULT	BL workflow			System Reado	only
Reports			СМ	DEFAULT	CM workflow			System Reado	only
Site Map			IN	DEFAULT	IN workflow			System Reado	only
Database Scripts			RM	DEFAULT	RM workflow			System Reado	only
System Locales			QT	DEFAULT	QT workflow			System Reado	only
Import/Export Scenarios			SO	DEFAULT	SO workflow			System Reado	only
Access Rights	>		TR	DEFAULT	TR workflow			System Reado	only
Wikis Web Service Endpoints									

Figure: Selection of the workflow's subtype identifier

Then in the **Add Workflow** dialog box, which opens when the customizer clicks the **Add Workflow** button, the customizer can select one of the created order types (*T1* or *T2*) as a workflow subtype (see the following screenshot).

Customization Project	ct Ed	itor							Bac	<u>k Reload</u>	
File Publish Extension Li	brary	Source Co	ntrol								
SalesOrderTypes	so	0301000 (Sal	es Orders) W	/orkflows							
	5	ADD WORKFLOW ····									
Actions	State Identifier. Type Identifier.			Status Subtype Id		Subtype Ide	dentifier Order Type		be	~ ^	
Event Handlers				Behavior				Allow Users to M		lify Subtype	
Conditions				Allow Users	s to Modify Type						
▶ Workflows Dialog Boxes	C	×									
Data Access	園	Active	Workflo	Add Workflow			× ase Syste	am Workflow	Status		
Code			Туре				-				
Files			MO	Operation	Extend System Work	flow ~			System Re	eadonly	
Generic Inquiries			BL	* Base Workflow:	SO workflow	×.			System Re	eadonly	
Reports			CM	Workflow Type:	SO	×			System Re	eadonly	
Dashboards			IN	Workflow Subtype:	111	~			System Dr	vadoplu	
Site Map				* Workflow Name:	Sales Order: T1				System Re	sauority	
System Locales		M	RM				-		System Re	sadonly	
Import/Export Scenarios			QT			OK CANO	EL		System Re	eadonly	
Shared Filters			SO	DEFAULI	SU WORKHOW		_		System Re	eadonly	
Access Rights	3		TR	DEFAULT	TR workflow				System Re	eadonly	
Wikis											
Web Service Endpoints											

Figure: Selection of the workflow subtype

1

Only one workflow per order type is supported.

The customizer then can mark both created workflows as active (see the following screenshot).

Customization Project	t Ed	itor						Back	Reload	
File Publish Extension Lib	rary	Source Cont	rol							
SalesOrderTypes •	sc	301000 (Sale	s Orders) Work	flows						
✓ SCREENS ✓ SO301000	ADD WORKFLOW ····									
Actions Event Handlers	0	state Identifier		Status		Subtype Identifier	Order Type		^	
Fields Conditions • Workflows (2, inhented 8)	2	ype Identifier:		Behavior		Allow U		Jsers to Modify Subtype		
Dialog Boxes Data Access Code	0 M	Active	Workflow Type	Workflow Subtype	Workflow Name	Base Sys	tem Workflow	Status		
Files			MO	DEFAULT	MO workflow			System Read	lonly	
Generic Inquiries			BL	DEFAULT	BL workflow			System Read	lonly	
Reports			СМ	DEFAULT	CM workflow			System Read	lonly	
Site Map			IN	DEFAULT	IN workflow			System Read	lonly	
Database Scripts			RM	DEFAULT	RM workflow			System Read	lonly	
System Locales			QT	DEFAULT	QT workflow			System Read	lonly	
Import/Export Scenarios			so	DEFAULT	SO workflow			System Read	lonly	
Access Rights			TR	DEFAULT	TR workflow			System Read	lonly	
Wikis			SO	T1	Sales Order: T1	SO work	flow	Inherited		
Web Service Endpoints Analytical Reports	>		SO	T2	Sales Order: T2	SO work	flow	Inherited		
Push Notifications Business Events Mobile Application User-Defined Fields Webhooks Connected Applications										

Figure: Two separate workflows for different order types

After the customizer creates a separate workflow for each custom order type, they can perform the usual operations with these workflows: add, remove, or modify states, actions, fields, and transitions.

If the customizer does not need to create separate workflows for each of the order types, they can keep the workflow with the *Default* subtype active. The system will use this workflow for sales orders that meet the following criteria:

- The behavior used for the sales orders is the same as the workflow type (for example, the behavior is SO and the workflow type is SO).
- Separate workflows have not been defined with this type and with a subtype that is the same as the order type

Workflow API: Support of Workflow-Identifying Fields of the Second Level

The following topic describes how Workflow API can be used to implement workflows based on the values of workflow-identifying fields of the second level (subtype fields).

By using Workflow API, a developer can define workflow selection to be based on the value of a type identifier and then further based on the value of the subtype identifier. A workflow defined for the subtype identifier value inherits its configuration from the workflow defined for the type identifier value. The following diagram shows the types and subtypes of workflows based on their workflow-identifier field values.



Figure: Types and subtypes of workflows

To create a workflow for a value of the subtype identifier, a developer needs to do the following at the screen configuration level:

- 1. Define the type identifier by calling the FlowTypeIdentifierIs<>() method
- 2. Define the subtype identifier by calling FlowSubTypeIdentifierIs<>() method
- 3. For each value of the type identifier field, define the set of workflows in the WithFlows () method
- 4. For each value of the subtype identifier field, define the set of workflows in the WithSubFlows () method

Sales Order Example

Suppose that the system has sales orders whose workflows depend on the value of the Behavior field. Further suppose that for each value of the Behavior field, a developer may need to define workflows that are selected based on the Order Type field. This means that the developer needs to specify the Behavior field as the

workflow-identifier field of the first level, and the Order Type field as the workflow-identifying field of the second level.

The following code shows how to define the list of workflows for values of the subtype identifier.

```
context.AddScreenConfigurationFor(screen =>
{
    return screen
        .StateIdentifierIs<status>()
        .FlowTypeIdentifierIs<behavior>()
        .FlowSubTypeIdentifierIs<orderType>()
        .WithFlows(flows =>
        {
            flows.Add<SOBehavior.sO>(flow => flow
                // define states and transitions here
                .WithSubFlows (subFlows =>
                {
                    subFlows.Add("S1", subFlow =>
                      // define states and transitions here
                    );
                    subFlows.Add("S2", subFlow => =>
                      // define states and transitions here
                    );
                }));
            flows.Add<SOBehavior.rM>(flow => flow
                // define states and transitions here
                .WithSubFlows (subFlows =>
                {
                    subFlows.Add("R1", subFlow => =>
                      // define states and transitions here
                    );
                    subFlows.Add("R2", subFlow => =>
                      // define states and transitions here
                    );
                }));
        });
```

});

The code above does the following:

- Specifies the state identifier field: Status
- Specified the type identifier field: Behavior
- Specifies the subtype identifier field: OrderType
- Defines two workflows for the values of the Behavior field: SOBehavior.sO and SOBehavior.rM
- In the workflow for the SOBehavior.sO value, adds two workflows, which are selected based on the value of the subtype identifier
- In the workflow for the SOBehavior.rM value, adds two workflows, which are selected based on the value of the subtype identifier

Developer Documentation: New Topics

In Acumatica ERP 2023 R2, a developer can find new and reworked information on the following subjects.

API Reference

API Reference has been reworked as follows:

- In previous versions, the API elements were grouped by assemblies. Now the elements are grouped by namespaces (see Item 1 in the following screenshot).
- All members of an element are now described on one page (Item 2). (Previously, the reference included separate pages for each member.)



Figure: The API Reference

Topics from T Courses

Now the topics from the *T240 Processing Forms* and *T250 Inquiry Forms* courses are available in the developer documentation. The developer can review the following chapters:

- Preparing a Test Instance for Customization
- Replacing Attributes for DAC Fields in CacheAttached
- Defining the External and Internal Presentation of Field Values
- Setting Up Inquiry Forms
- Creating Processing Forms
- Adding Filtering Parameters to a Form
- Filtering Records Dynamically with Data View Delegates
- Aggregating Data
- Displaying Data from Multiple DACs by Using PXProjection
- Redirecting the User to Webpages
- Updating Data with a Custom PXAccumulator Attribute

New and Updated REST API Examples

In the Integration Development Guide, REST API examples have been added or updated for the following entities:

- Basic requests:
 - Retrieve Records Filtered by Custom Fields
 - Retrieve Localized Values of a Multilingual Field
 - Retrieve Localized Values of All Multilingual Fields
 - Request a Report
- Bill: Release Retainage
- SalesInvoice:
 - Remove a Sales Invoice from Hold
 - Invoke Release of an Invoice
 - Retrieve the Status of the Release Operation
 - Check the Status of the Sales Invoice
- SalesOrder: Retrieve a Sales Order with Detail Lines
- StockItem: Retrieve the List of Attachments of a Stock Item

Fixes and Enhancements

You can find fixes and minor enhancements introduced in Acumatica ERP 2023 R2 in the following document: *Acumatica ERP 2023 R2 Release Notes: Fixes and Enhancements*.