SYSPRO™
Simplifying your Success

Enhancements

SYSPRO 7 Update 1 | Port 016

SYSPRO Technical Authoring Department

Copyright © 2016 Syspro Ltd

All rights reserved

Table of Contents

Port 016

The following is a summary of the enhancements that have been implemented for this port.

AR invoice posting tax codes

Version	Issue	Port
7.0	001_SP1	016

Program	Description	Version
ARSPIN	AR Invoice Posting	027
ARSQSO	Query Accounts Receivable Setup Options	009
ARSTIN	AR Invoice Posting	025
ARSTSO	Post Accounts Receivable Setup Options	011
IMPDEB	AR Setup	039
IMPQDE	AR Setup Options Report	007

Why was this done?

There was a requirement to allow for the capture of a tax code when posting transactions in the AR Invoice posting program, and to calculate the tax value based on the rate linked against the selected tax code.
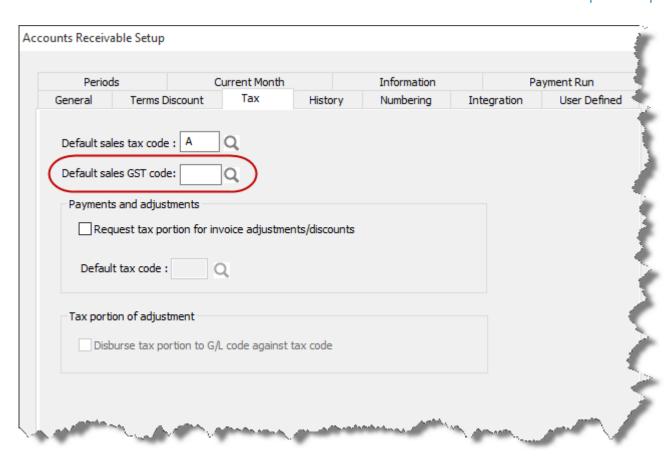
Currently the AR Invoice Posting program allows for the manual capturing of Tax or GST values for customers that are defined as non- exempt, and uses the default tax code A if not defined in the Accounts Receivables Setup program.

The requirement to allow for the transaction tax status to be overridden at point of capture has also been catered for in this enhancement.

What was done?

An option to add a default GST code to which the GST amount must be posted in the AR Invoice Posting program has been added to the **Accounts Receivable Setup** program.
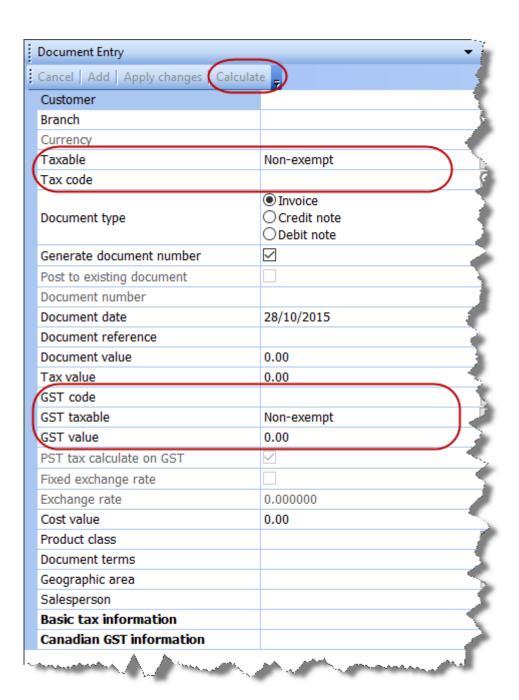
This option is available if your nationality code is defined as CAN and the Canadian GST required option is selected in the Tax Options program.

Fields to capture a GST code when posting transactions, and to calculate Tax or GST values based on the rate linked against the selected tax code, have been added to the **AR Invoice Posting** program.

This is for sales tax calculations at **Invoice level** only, and if the basic tax system is enabled in the **Tax Options** program.

If the **Tax by geographic area** option is enabled, the tax code held against the customer's geographic area will determine the tax rate to be applied. If the tax code against the geographic area is set to use the tax code from the stock item, the default tax code defined in the **Accounts Receivable Setup** program will be used.

Document Entry	▼
Cancel | Add | Apply changes | Calculate	
Customer	
Branch	
Currency	
Taxable	Non-exempt
Tax code	
Document type	⦿ Invoice ⃝ Credit note ⃝ Debit note
Generate document number	☑
Post to existing document	☐
Document number	
Document date	28/10/2015
Document reference	
Document value	0.00
Tax value	0.00
GST code	
GST taxable	Non-exempt
GST value	0.00
PST tax calculate on GST	☑
Fixed exchange rate	☐
Exchange rate	0.000000
Cost value	0.00
Product class	
Document terms	
Geographic area	
Salesperson	
Basic tax information	
Canadian GST information	

These fields depend on the nationality defined against your system.

- The **Taxable** field indicates if a customer is to be charged tax or is exempt from tax. This can be overridden at point of capture.
- The **GST code** field is enabled when the nationality is set to CAN, and the Canadian GST required flag has been selected.

  If you enable **Canadian GST required** and **Tax by geographic area**, the GST tax code will default to the GST tax code defined against a geographic area.
- The **GST taxable** field indicates if a customer is to be charged GST tax or is exempt from tax. This field can be overridden at point of capture.
- The **USA taxable** field indicates if a customer is to be charged tax or is exempt from tax. This field can be overridden at point of capture. This is only applicable when the tax system is USA AVP sales tax system or USA Tax by advanced geocodes.
- The **Calculate** button on the Document Entry toolbar will calculate or recalculate the tax value based on the supplied tax codes.

For the tax calculation to run efficiently, it is recommend that the default tax codes are defined in the Accounts Receivable Setup program before processing any transactions. These can be overridden at point of capture.

All tax calculations are on a tax basis of Exclusive even when the tax code has been defined as Inclusive.

Business object changes

Changes have been made to the following Business Objects:

- ARSTSO - Accounts Receivable Setup Transaction Posting

  An `<DefGSTSalesCode>` element - indicates the default GST sales tax code.
- ARSQSO - Accounts Receivable Setup Query

  An `<DefGSTSalesCode>` element - indicates the default GST sales tax code.
- ARSTIN - AR Invoice Posting

  The following elements have been added:

  `<GSTTaxCode>`

  `<Taxable>` - USA Extended tax codes are always validated against the customer but may be overridden at point of capture. The tax values will always be calculated and are not editable at point of capture.

  `<StateExtendedTax>`

  `<County/ZipcodeExtendedTax>`

  `<CityExtendedTax>`

  `<AutomaticTaxCalculation>N</AutomaticTaxCalculation>` - indicates whether the tax value of the transaction is to be automatically calculated if it is not supplied in the `TaxValue` element. Valid values are N (No) and Y (Yes).

  No element is required for `Extended tax code value` as these will always be calculated and should not be allowed to be overwritten at point of capture.

eSignatures added to Purchase Orders

Program	Description	Version
7.0	001_SP1	016

Program	Description	Version
PORPC1	Bill of Landed Costs Element Maintenance	003
PORPC2	LCT Route for Supplier/Stock Maintenance	005
PORPL0	LCT Calculation Code Maintenance	007
PORPL5	LCT Calculation Code	006
PORSLT	LCT Tariff Code Maintenance	001
PORSRG	Requisition Group Maintenance	001

Why was this done?

There was a requirement to more closely monitor all purchasing activities within SYSPRO.

What has done?

The **Purchase Order** module has been updated to include electronic signatures, as well as additional output variables for existing transactions.

Where can I see the change?

Many programs throughout the **Purchase Order** module have been affected since the beginning of this enhancement, and in particular the **Electronic Signature Audit logs**.

A complete list of these programs is as follows:

Program / Business Object	Description
IMPBTF	LCT Browse on Tariff Codes
IMPPOP	Purchase Order Create
PORBRG	Requisition Group Browse
PORP10	Purchase Order Entry
PORP1L	LCT Element Maintenance
PORP20	Purchase Order Print
PORP2L	LCT Route Maintenance
PORP31	Blanket Purchase Order Purge
PORP32	Blanket Purchase Order, Purchase Order Creation
PORP38	Blanket Purchase Order Release
PORP40	Blanket Purchase Order Maintenance
PORP4L	LCT Custom Exchange Rate Maintenance
PORP86	Import GRN Details
PORP93	Requisition Create Purchase Order
PORPB1	Requisition User Browse
PORPC0	LCT Bill of Landed Cost Standard Route
PORPC1	LCT Bill of Landed Cost Maintenance
PORPC2	LCT Bill of Landed Cost Route Maintenance
PORPCC	LCT Copy Bill of Landed cost
PORPCR	LCT Bill Of Landed Cost Copy Route
PORPGR	GRN Adjustments
PORPIQ	Requisition Issues & Transfers
PORPL0	LCT Calculation Code Maintenance
PORPL1	LCT Browse on Elements
PORPL2	LCT Browse on Routes
PORPL4	LCT Browse on Customs Exchange Rates
PORPL5	LCT Browse on Calculation Codes
PORPL7	LCT Browse on Constant Codes
PORPL9	LCT Calculate New Landed Cost

Program / Business Object	Description
PORPLA	LCT Shipment Tracking Vessels
PORPLS	LCT Bill of Landed Cost Fixed Cost Maintenance
PORPLT	LCT Tariff Code Maintenance
PORPLY	LCT Shipment Reference
PORPLZ	LCT Shipment Maintenance
PORPM1	Requisition User Maintenance
PORPM7	LCT Constance Code Maintenance
PORPM9	Requisition Maintenance
PORPMA	LCT Vessel Maintenance
PORPRG	Requisition Group Maintenance
PORPRI	Accept into Stock from Inspection
PORPRR	LCT Shipment Receipt
PORPRS	Purchase Order Receipt
PORS2L	LCT Route Maintenance e.net
PORSCC	LCT Constant Code Maintenance e.net
PORSEL	LCT Element Maintenance e.net
PORSLT	LCT Tariff Code Maintenance e.net
PORSRG	Requisition Group Maintenance e.net
PORTGN	GRN Adjustment e.net
PORTGR	GRN Details e.net
PORTLM	LCT Shipment Maintenance e.net
PORTLR	LCT Shipment Receipt e.net
PORTOI	Purchase Order Entry e.net
PORTOR	Purchase Order Receipt e.net
PORTRA	Requisition Approval e.net
PORTRC	Requisition Cancel e.net
PORTRH	Requisition Hold / Release e.net
PORTRQ	Requisition Maintenance e.net
PORTRR	Requisition Routing e.net
PORTTR	Requisition SCT e.net
PORUIT	Requisition Issue & Transfers e.net
SORTTR	Sales Order SCT e.net

SYSPRO Espresso script editor

Version	Issue	Port
7.0	001_SP1	016

Program	Description	Version
ESPABR	Espresso Application Builder Save As	001
ESPAP1	Espresso Script editor	000
ESPAPB	Espresso Application Builder	001

File	Version
SYSPROESPRESSOCODESEARCHWIZARD.DLL	003
SYSPROMA_ESPRESSO.DLL	008

Why was this done?

There was a requirement to create and maintain scripts for Espresso components from within SYSPRO.

What was done?

A Script editor has been added to the Espress Application Builder program, from where you can add scripting to an Espresso component.

This allows you to build additional business logic into Espresso, for example you can execute a workflow when a sales order is created, change the color of an account balance when it reaches a certain amount, or prevent an operator from adding a sales order line against a specific warehouse.

A script can be added against a component (when the component is loaded or refreshed) or against a particular field on the component (when it gains focus, or after it is changed). The events available are dependant on the application you are maintaining.

Where can I see the change?

An **Edit script** option is enabled when you highlight a component in the listview in the **Espresso Application Builder** program.

New Espresso application

Version	Issue	Port
7.0	001_SP1	016

File	Version
SYSPRO.ARS.STANDARD.ESPRESSO.DLL	008

Why was this done?

There was a requirement for a customer dashboard application in Espresso from which you can access multiple components, and perform various functions, in one central place for a customer.

What was done?

A **Customer Workbench** application has been added to the Espresso menu.

This application contains the following components:

- Information
- Best price details
- Order management, including sales order commitment details
- Back order details
- Invoice details, including invoice ageing analysis and invoice payments
- Activity information
- Contacts

And from this application you can add:

- Sales orders
- Activities
- Contacts

New object to issue requisitions

Version	Issue	Port
7.0	001_SP1	016

Program	Description	Version
PORTME	Issue Requisitions	000
PORUIT	Requisition Issue & Transfer Build Util	014

Why was this done?

A new business object was created to enable e.net Solutions developers to develop applications to issue requisitions.

Note: You cannot change the quantity prior to issuing in this business object. If you need to change the quantity before issuing, PORTRQ can be used to update the requisition and create a new requisition line.

Where can I see the change?

Schemas and sample XML instances are available in the SYSPRO e.net Solutions Business Objects Reference Library.

New object for discount breaks

Version	Issue	Port
7.0	001_SP1	016

Program	Description	Version
IMPSSC	SO Order Value Discounts	000

Why was this done?

A new business object was created to enable e.net Solutions developers to develop applications to add, update and delete percentage discount breaks that enable you to vary prices according to the quantity or value of items on a sales order.

Where can I see the change?

Schemas and sample XML instances are available in the SYSPRO e.net Solutions Business Objects Reference Library.

SQL server lock

Version	Issue	Port
7.0	001_SP1	016

Program	Description	Version
COMFTR	COM Filter	009

Program	Description	Version
COMLGN	COM Login and Authentication	074
IMPSQ1	Admin Issue SQL Statements	052
IMPSQF	Admin Issue SQL Statements	052
IMPSQL	Admin Database Connection	028
IMPSTD	Admin Standard Library Routines	112
IMPUSN	Admin Display Users Logged in Detail	013

Why was this done?

There was a requirement to provide additional information to System Administrators and Support Personnel when excessive locking is occurring.

This is mainly because of the SQL Server lock that can cause an excessive number of concurrent processes to wait for resources to become available. To the end user, the system appears to hang as the system becomes unresponsive. This can affect SYSPRO client-server end users or people accessing any part of the SYSPRO infrastructure such as Espresso, SYSPRO POS , workflow and any third party system using e.net or even direct database access.

What was done?

Additional information to identify the source of the problem has been added. This includes:

- processes not related to SYSPRO that are blocking or being blocked
- the SQL Server statement currently being performed
- the SQL Server logon authenticating the process
- if any e.net business object is being blocked (or causing blocking), the operator code, name, location, name of the business object being invoked and SQL statement being issued, is displayed.

Where can I see the change?

You can diagnose performance problems in SYSPRO using the following tools:

- Application to View Users

  The Users application allows a system administrator to view who is doing what using the SYSPRO client-server interface. This provides visibility about which parts of the SYSPRO application are being accessed and is shown in a structured view by Company and Role down to each individual SYSPRO operator and their instances.

  When appropriate, the system administrator can terminate a SYSPRO process, send a message to the server-side process to exit and if necessary kill the Windows Server process id (PID).

- SQL Server Locks

  The Users program shows SQL locks currently active on SQL Server. If the locks are long running then it is possible that a blocking process is causing an unexpected problem.

  A list of blocking and related blocked processes are shown in a tree view indicating the relationship between them. Typically the first process in the list should be investigated to see if it is performing as expected.

- SQL Server Process Id (SPID)

  Every process connected to SQL Server is assigned a SQL Server Process Id - known as a spid. The spid is shown against the blocking and blocked process, which can be useful to uniquely identify the process by a system administrator. When viewing the SQL Server locked processes, the spid can be correlated with the SYSPRO operator and provide additional information such as their operator code, name, location, the current SYSPRO program being used. This can assist administrators to understand the ramifications of the locks and who is being adversely affected.

In addition if a SYSPRO program is the one causing the blocking, then additional investigation can be performed to find the cause - for example the operator can be contacted to find out what tasks are being performed.

TPM promotion business object

Version	Issue	Port
7.0	001_SP1	016

Program	Description	Version
SORTOI	SO Sales Order Import	110
SORTOV	SO Sales Order Import Validation	069
TPMTAP	Trade Promotions Add Promos to Order	011
TPMUQP	COM TPM Promotion Qualification	034

Why was this done?

There was a requirement to input a stock code from the free goods promotion list in the **Trade Promotions Add Promos to Order** business object.

What was done?

The Trade Promotions Add Promos to Order business object has been changed to accept in the `<FreeGoodsSelection>` and `<GlobalFreeGoodsSelection>` elements, that specify the promotion and the stock code to be applied if the promotion qualifies.

There is a limit of 10 promotion/stock code sets per order as well as a limit of 10 per order line.

Where can I see the change?

Schemas and sample XML instances are available in the SYSPRO e.net Solutions Business Objects Reference Library.

Appendix

Additional resources

Reference Guides

SYSPRO's Reference Guides are primarily module-based and cover aspects of the user interface at program level. This includes detailed field and function explanations as well as notes and warnings regarding the usage of an application program within SYSPRO. These guides also extend to feature topics within the system (e.g. Tax, Security, Language Translation, etc.) and include implementation considerations. Please refer to the SYSPRO *InfoZone* for details on how to obtain these guides (`http://infozone.syspro.com/support`).

Support

SYSPRO's *InfoZone* provides up-to-date information about the product as well as more advanced tutorials for registered users.

Newsletter

As part of SYSPRO's ongoing commitment to keeping you informed about the latest product developments, a regular newsletter is distributed to the SYSPRO community. The newsletter covers many aspects of SYSPRO ranging from product enhancements to support-related information, known issues and useful tips. You can subscribe to this newsletter from the SYSPRO *InfoZone*.

Forums

SYSPRO provides a number of active on-line *forums* for you to engage in various discussions about the product.

Contact us

The Technical Authoring team comprises: Even Nesset, Monique MacNaught, Natalie Le Roux and Carol Hart. Send us your comments to help us improve the standard of our reference guides.

All emails can be sent to *Development-Authors@za.syspro.com*.