

Improved Organizational Controls

SYSPRO 8

Reference Guide

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Improved Organizational Controls

The following provides a summary of the features and functionality available in **SYSPRO 8**.



2022

Admin Management Capabilities within the Supply Chain Portal

The **SYSPRO Supply Chain Portal** has been enhanced to provide management capabilities to account managers enabling them to maintain which employees at their suppliers and customers have access to the portal. This includes the ability to define the dynamic landing page to determine the features and functionality available to each employee.

The ability to manage your own portal provides administrators and account managers (both Sales and Procurement alike) with an improved user experience, increased configuration flexibility, improved integration and effective portal access security. This leads to increased collaboration and visibility throughout the supply chain and portal users gain access only to those portions of the portal that they require.

In a multi-company environment, the supplier/customer no longer needs to have the same key in all companies from which they transact. SYSPRO Administrators can now link SYSPRO operators to a portal supplier or portal customer (per company) so that they can manage the specific customer and supplier accounts for access to the portal. In addition, account managers can now customize the individual applications availability within the dynamic landing page.

Sales Orders Picking Allocation Override

This feature increases the flexibility of sales order picking by letting you override allocations when items can't be located and to use alternate stock in the warehouse if available. This helps to eliminate bottlenecks and simplifies the picking process.

This typically targets situations where the picker is unable to locate the allocated stock (or stock with earlier expiry dates is found). Instead of having to return to the office, cancel the pick and reallocate, stock can be reallocated on the pick using either the **SYSPRO Desktop** or **SYSPRO Espresso** versions.

Program notes

You activate the feature by switching on the **PICK ALLOCATION OVERRIDE** option against the warehouse. Stock can be reallocated on the pick using either the **Pick Maintenance¹** program (**SYSPRO Desktop**) or the **Order Picking** and **Missions & Tasks** applications (**SYSPRO Espresso**).

Sales Pricing Engine

Building on the simplified pricing structures implemented in previous releases, SYSPRO's **Sales Pricing Engine** feature is bolstered by a flexible pricing hierarchy that now lets you define priorities and contracts against price rules. Price rules with the highest priority take precedence over other price rules and override the *best price*. When a contract is linked to a price group, it becomes a price rule that is included in the pricing hierarchy.

In addition, a status (e.g. active, in review, on hold) can now be defined against a price list and further control is provided over price selection when stock is sold in different units of measure.

To ensure a smooth transition to the revised **Sales Pricing Engine**, the **Price List Conversion²** program lets you convert existing price code configurations (e.g. existing stock code and price code combinations) into price lists.

¹Program: SORPPM

²Program name: SORPLC

2021-R2

Single Sign-on for SYSPRO Avanti in Azure environments

SYSPRO Web UI (Avanti) now supports **Single Sign-on** capabilities when using **Microsoft Azure Active Directory B2C**.

This provides a simple to setup and robust method of using **Microsoft Active Directory (AD)** to control your **SYSPRO Web UI (Avanti)** users.

Administrators can use **Microsoft Active Directory (AD)** to add, change, disable and delete operators virtually seamlessly and any changes to user attributes automatically reflect against the operator without manual intervention.

Once configured, it enables a complete single sign-on experience as operators are authenticated by **Microsoft Windows** via the **Microsoft Azure Active Directory B2C** login page configured for their organization. Operators can then use their email address to log into **SYSPRO Web UI (Avanti)** and engage as normal.

Benefits

- Increased login security
- Simplified login process for **SYSPRO Web UI (Avanti)** users
- Convenient administration of users managed by **Microsoft Azure Active Directory B2C**

Requirements

- A registered certificate for the **SYSPRO Web UI (Avanti)** server is required to run **Single Sign-on**.
- A customer account must be registered with **Microsoft Azure Active Directory B2C** and configured with the correct redirect URL back to the specific **SYSPRO Web UI (Avanti)** instance.
- The relevant tags within the `Web.config` file of the **SYSPRO Avanti Web Service** service must be updated accordingly.
- As AD users are mapped to SYSPRO operators, each operator's configured email address must match their registered email address within the **Microsoft Azure Active Directory B2C** portal.



The **SYSPRO Cloud ERP** team are responsible for enabling **Single Sign-on** for customers in a **SYSPRO Cloud ERP** environment.

WIP Shift Patterns

The **WIP Shift Patterns** feature lets you establish schedules with different activities for work centers and machines within manufacturing and distribution facilities. Previously, you were restricted to allocating a full day for a specific activity.

Shift patterns can be defined at various levels (i.e. company, site, work center, production line, warehouse or machine) and a work day can have multiple shifts with different start and end times to accommodate shift requirements.

Allocating maintenance times ensures that machine time can't be booked for production time (i.e. avoids different activities coinciding at the same time on the same machine).

Tax Connectors

The **Tax Connectors** feature has been enhanced with the following improvements when using the Tax Connector - Avalara module:

- The filter options of the **Tax Interface Setup** program (which allow you to exclude certain states and countries from submission to **Avalara**) have been extended to filter submissions by product class.
- The process for manually importing tax rates into SYSPRO using the **Tax Rates Import** program has been enhanced by the addition of the following new standardized panes:
 - **Options** - These options let you define import criteria.
 - **Details** - This lets you view and edit specific details of the import file.
 - **Import Results** - This displays a summary of the import results.
- You can now select specific **Customers** and **Sales orders** for which you want to run the report when you use the **Tax Interface Error Log Print** program to view and print any errors that may have occurred during the posting of transactions.

In addition, the following new columns have been added to the **Tax Interface Error Log Print** pane for ease of reference to information:

- **Customer** - This indicates the customer assigned to the transaction.
- **Line type/Increasing** - This indicates the status of the transaction.
- **Transaction description** - This indicates a detailed description of the error that occurred.
- The **Exemption Certificates Setup** program has been updated so that it is only accessible when the **Tax Connector - Avalara** module is licensed and installed.

2021-R1

WIP by Branch improvements

The **WIP by Branch** feature (which initially introduced ledger integration for work in progress at branch level) has been extended to include separate control accounts at work center level - useful when jobs are in transit during the production process.

A job transfer feature has also been added to let you track the total costs of a job when transferring a job between operations. The job's total cost is transferred to the WIP branch ledger account of the next operation. The WIP branch defined for the work center is used when posting labor transactions.



If ledger Integration for WIP is by job classification within the WIP branch, then the ledger account for the job classification is used for the job master as well as labor and material allocations.

Streamlined tax integration with Avalara and Vertex

The **SYSPRO 8** architecture has been re-engineered to cater for connecting to cloud-based tax calculation systems. This provides a more sophisticated tax capability that allows you to remain compliant when facing complex tax scenarios in your business.

The following tax connector modules are now available for **SYSPRO Cloud ERP** and **SYSPRO 8 on-premise** (both in **SYSPRO Web UI (Avanti)** and **SYSPRO Desktop**):

- Avalara Tax Connector
- Vertex Tax Connector

Once you obtain the appropriate licensing for these connected services and configure your preferred tax connector, you can establish a direct link between these platforms and SYSPRO using a prebuilt connection that allows for seamless interaction.

SYSPRO sends transaction data to Avalara or Vertex and receives the tax total in return, enabling the following capabilities:

- Calculate tax requirements.
- Record tax transactions in Avalara and Vertex.
- Use the tax transactions recorded in Avalara and Vertex for reporting purposes.
- Record invoices.
- Create, maintain and store Avalara tax exception certificates (only applicable to Avalara Tax Connector).
- Perform other tax-related functions.

Benefits include:

- Simplified sales and use tax processes for all US states and Canadian provinces (from tax determination on transactions to exemption certificate management and tax returns).
- Monthly updates to ensure constant application of current tax rates.
- Analysis capability by state, county and city.
- Enhanced VAT process efficiency (from indirect tax determination to reporting).
- Improved accuracy and reliability of tax calculations at the federal, state, and local levels in the US and Canada.

Digital Tax improvements

The following enhancements were introduced to the **Digital Tax System** for this release:

- You can now capture the **VAT registration number** and **User tax reference** field at company and branch level.
- The **Digital Tax Tool** program lets you design a template with your preferred input and output options while the new **Browse on Digital Tax tool Template** program lets you search and choose an existing template.
- The **Consolidated Tax Return** program lets you identify records that still require submission in the selected financial period, by displaying transactions that have been submitted, not submitted and not printed.
- The **Tax Transaction by GL Allocation Account** report includes the **VAT registration number** and **User tax reference** field.
- The **Digital Tax Tool Status** report displays the status of the tax return for the selected financial period.
- The **VAT at a Glance** program displays the month-to-date printed and unprinted VAT transactions for the current financial year.

AP Group Payments

The **AP Group Payments** feature simplifies the allocation of a single supplier remittance to multiple related suppliers, in a single transaction.

This avoids errors typically associated with the manual preparation of transactions related to secondary suppliers and improves the administrative time taken to process them.



Processing payments to suppliers across multiple SYSPRO companies is not yet available.

AR Group Payments

The **AR Group Payments** feature simplifies the allocation of a single payment from a customer to multiple related customers, in a single transaction.

This avoids the errors typically associated with the manual preparation of transactions related to secondary customers and improves the administrative time taken to process them.



Processing payment from customers across multiple SYSPRO companies is not yet available.

2020-R2

WIP by Branch

The **WIP by Branch** feature extends ledger integration options to include integration at branch level (only job classification was available before). This means that each branch and job classification can have separate WIP ledger control accounts. Previously, you could only define a single WIP control account and WIP variance account per company.

You can enable WIP branches for the following:

- Jobs
- WIP inspections
- Job numbering
- Job classification

VAT reverse charges for tax submission

The **VAT reverse charges for tax submission** feature lets SYSPRO record VAT that would've been paid by a company if services were procured from within their EU state, but which were in fact procured from another EU state. It caters for VAT requirements in UK and EU countries that need to disclose reverse charges when submitting tax reports.

The notional tax transactions are accumulated and made available for subsequent reporting using the MTD 9-Box **Tax Return** report and the **Digital Tax Tool**.

To determine the reverse charge amounts, a notional invoice is raised with the same value as is reflected on the actual invoice. Tax is then calculated using local tax rates. A notional tax credit note is generated to contra and therefore cancel the notional invoice.

Changes on the MTD 9-Box Return:

- The notional tax value of the invoice is displayed in box 4 (VAT Reclaimed).
- The notional tax value on the credit note is added to box 1 (VAT Due).
- The effect on the Net VAT in box 5 is thus zero.



The notional invoice and tax credit notes are pro forma entries with implied costs and are not recorded against the supplier.

2020-R1

SYSPRO and SQL Server Encryption

As data encryption technologies form a vital part of any security and privacy data compliance strategy, this feature lets administrators configure the connection between SYSPRO and **Microsoft SQL Server** using **Transport Layer Security (TLS)** to provide **Data Encryption in Motion**.

The feature assists with compliance to stringent privacy regulations and government acts, as it focuses on securing data from SYSPRO when using **Microsoft SQL Server**.

Data Encryption in Motion

This describes a technique of configuring SYSPRO and **Microsoft SQL Server** so that all communication between the two is encrypted. Now data encryption can be enabled from the client, instead of only controlling encryption within the **Microsoft SQL Server** instance.

The following data is encrypted when using this type of configuration:

- Initial connection information
- SQL statements issued
- Actual data passed to and from **Microsoft SQL Server**

Digital Tax Developments

UK VAT Return Reports

SYSPRO's suite of tax programs has been bolstered by functionality that lets you generate, print, reprint and submit a 9-box-grid UK VAT return.

Affected programs

Tax Return

This program lets you generate a report that consolidates sales tax information for ease of submitting tax returns to authorities.

The report is designed to meet the MTD tax requirement as set out by UK legislation.

The printing and reprinting option was enhanced to facilitate the following:

- Print unprinted transactions.
- Reprint all transactions.
- Reprint non-submitted transactions.
- Reprint and submit non-submitted transactions.

Tax Return Status

This program lets you generate a report displaying the total number of tax return transactions that haven't yet been printed; that have been printed but not submitted; and that have been printed and submitted according to the defined tax years and periods.

Because you now have a record of the status of tax return submissions, you can make informed decisions regarding the criteria for which you would like to generate the **Tax Return** report.

SYSPRO's **Executive View** includes two new customized panes:

- **Tax Return Status (Summary)**

This customized pane lets you view the total number of tax return transactions that have not yet been printed; printed but not submitted; and printed and submitted according to the defined tax years and periods.

- **Tax Return Status (Detail)**

This customized pane lets you view details of transactions that have not been printed and not submitted, for the range specified. Information such as **Journal**, **Invoice Reference**, **Tax value** and **Status**, could be required for query purposes.

As with the **Summary** view, you can view the total number of tax return transactions which have not been printed, submitted and not yet submitted.



These panes let you check the submission status without running the reports.



The data displayed (extracted from the [AdmTaxReturn](#) table) is only for the current and previous two periods

Cash Book Tax Distribution by Tax Code

Accumulated tax amounts on deposits and withdrawals can now be defined by ledger code or by tax code (by selecting the **GL code by tax code** option at the **DEFAULT TAX CODE** setup option (*Setup Options > Tax > Cash Book*)).

You must define the ledger codes and descriptions per tax code, using the **Tax Code Setup** program.

When the deposit or withdrawal transaction is posted, the ledger codes and tax amounts can be viewed in the following programs:

- Tax Return
- Cash Book Journal
- Cash Book Tax Report
- Cash Book Print

Tax on Settlement Discount

The **Tax on Settlement Discount** feature lets you distribute the tax portion across multiple tax codes associated with the original invoice. This is controlled by the **DETERMINE TAX BASED ON INVOICE PAID** setup option.

All programs in the **Accounts Receivable** and **Accounts Payable** modules handle **withholding tax** and **tax on settlement discount** concurrently, depending on the configuration settings.

Affected programs

The following programs in the **Accounts Payable** module were enhanced to calculate the tax amounts per tax code:

- Payment Cycle Maintenance
- AP Release Invoices to Pay by Review
- AP Automatic Release of Invoices to Pay
- Execute AP Payment Run
- AP Manual Check Entry

Tax Transaction by GL Allocation Account

SYSPRO's suite of tax programs has been bolstered by the addition of the **Tax Transaction by GL Allocation Account** report program.

This report lets you generate a tax return breakdown by ledger code, indicating those accounts to which tax-related transactions have been posted for electronic or manual submission to tax authorities.

It gives tax authorities extra assurance that returns have been accurately completed.

2019-R2

SYSPRO Scheduler

The **SYSPRO Scheduler** lets you schedule a pre-determined activity at a given time in the future and then send a trigger for that activity at the appropriate time.

A calendar view (similar to **Microsoft Outlook**) is accessible from programs that have been designed to use the **SYSPRO Scheduler**. This lets you view existing tasks that have been scheduled as well as create and maintain schedules using the **Maintain Schedules** program.

Features currently using the **SYSPRO Scheduler**:

- Cycle Count

This creates a cycle count schedule of stock counting policies.

Multi-Factor Authentication

Multi-Factor Authentication is a process that identifies a user by validating two or more authentication methods from independent credential categories. This ensures that a user is only granted access after successfully presenting two or more pieces of evidence to the authentication mechanism.

In SYSPRO, the traditional user name and password has been bolstered by the addition of Email and Google authentication to improve security during the login process.

- **Email authentication** sends an email to MFA-defined operators containing a Time-based One-time Password (TOTP) required as part of login verification.
- **Google authentication** uses an app to generate a QR code for first time user configuration and a Time-based One-time Password (TOTP) is required as part of the verification process for subsequent logins.

Single Sign-on

Single Sign-on in SYSPRO provides a simple to setup and robust method of using **Microsoft Active Directory (AD)** to control SYSPRO users.

Once configured, it enables a complete single sign-on experience as SYSPRO users are authenticated by **Microsoft Windows** and then simply use a shortcut to run SYSPRO without being prompted for a user name and password at the login screen.

It means that a SYSPRO site can use **Microsoft Active Directory (AD)** to add, change, disable and delete operators virtually seamlessly. Any changes to user attributes automatically reflect against the SYSPRO operator without manual intervention.

Benefits

- Increased security around SYSPRO logins (you can lock-down users and only allow them access to SYSPRO using their specific operator code).
- Convenient administration of SYSPRO operators managed by **Microsoft Active Directory (AD)**.
- Simplified login process for SYSPRO operators.

Use System-wide SMTP

This feature solves the issue of a SYSPRO administrator having to capture the same SMTP email options for each company in the system.

Digital Tax Tool

The **Digital Tax System** feature lets you generate tax returns for electronic and/or manual submissions. This is in response to tax authorities around the world increasingly requiring businesses to submit VAT and GST returns in an electronic format.

The feature also assists with tax queries and reconciling VAT entries from the transactions in the company's general ledger.

Detail Posting to Control Accounts

The **Detail Posting to Control Accounts** feature lets you configure control account integration to General Ledger in detail. Previously, transactions to control accounts were consolidated and written to the ledger in summary, regardless of your integration level. The detail lines are now printed on distribution reports and can be viewed using the **GL Query** program as well as from within the relevant ledger journal maintenance program.

The detail integration to control accounts facility has been added to the following modules:

- Inventory Control
- GRN
- Trade Promotions
- Work in Progress
 - Part Billings
 - Labor Posting

Tax on Settlement Discount

The **Tax on Settlement Discount** enhancement enables all programs in the **Accounts Receivable** and **Accounts Payable** modules to handle withholding tax and tax on settlement discount at the same time.

The user interfaces of the programs weren't changed, only the calculation for tax on settlement discounts was adjusted and is now calculated according to the selected tax codes. The same tax codes (and therefore percentages) that were applied to the invoice lines are applied to the settlement discount.

Setup Options

The following setup options must be enabled to apply this feature:

CALCULATION FOR TERMS DISCOUNT

(Setup Options > Preferences > Financials > Accounts Receivable)

- Determine tax based on invoice paid
- Include tax
- Credit and/or debit notes

Affected programs

- AR Payments and Adjustments
- AR Period End
- Cash Posting Worksheet
- AR Post Permanent Entries
- AR Finance Charge Calculation
- AR Initial Invoice Capture
- AR Currency Conversion
- AR Customer Code Conversion
- AR Collector Run Maintenance
- AR Post Dated Check Status
- AR Payment Run
- AR Credit Checking
- Master Sub-accounts
- AR Initial Invoice Capture
- AR Master/Sub Account Maintenance
- AR Invoice Posting
- AR Payment Run
- AR Payments Import
- Customers
- Cash Posting Worksheet
- Tax Return
- Document Print

- SO Counter Sales
- Customer-Supplier Contra
- Interface Import
- AR Payments and Adjustments business object
- Post Accounts Receivable Setup Options
- Query Accounts Receivable Setup Options



The AP payment cycle process is not affected by this change.

2019-R1

Detail Posting to Control Accounts

The **Detail Posting to Control Accounts** feature lets you configure control account integration to General Ledger in detail. Previously, transactions to control accounts were consolidated and written to the ledger in summary, regardless of your integration level. The detail lines are now printed on distribution reports and can be viewed using the **GL Query** program as well as from within the relevant ledger journal maintenance program.

The detail integration to control accounts facility has been added to the following modules:

- Accounts Receivable
- Accounts Payable
- Assets
- Cash Book

GL Balancing Tool

This program lets you balance SYSPRO sub modules to General Ledger, allowing you to detect discrepancies between them. These discrepancies can occur because of data corruption (e.g. power outage during posting) unposted journal entries or journals being edited before posting to General Ledger. It is important that you resolve discrepancies, as inaccurate financials will have a detrimental effect on your financial reporting and planning.

Multi-currency Payments

The **Multi-currency Payments** facility lets you make payments to a supplier and receive payments from a customer in a different currency. It lets you manage funds across various currencies and countries, reducing the risk of errors arising from manual calculations. It eliminates the need to process receipts and payments in alternate currencies and provides a complete audit trail of the transactions.

2018-R2

SQL Health Dashboard

The **SQL Health Dashboard** provides SYSPRO Administrators and SQL Database Administrators a one-stop-shop for viewing and managing the system for high availability.

The dashboard displays information on both the system and company databases to assist in identifying potential problems, as well as enabling the repair of certain issues found within the databases.

Optimized invoice terms and discount handling

The new **AR INVOICE AGE AND TERMS**¹ business object lets you query customers' invoice details and age them according to the invoice terms code defined using the invoice ageing methods available for current period, previous period 1 or previous period 2.

The invoices can also be aged using the supplied aged date, the aged buckets held against the customer, or you can elect to ignore ageing.

Available invoice selections include zero current period invoices and zero retained invoices.

It also caters for credit control options such as credit status, highest invoice due, average number of days to pay and available discount due.

¹Business object: ARSQAG

2018-R1

Electronic Tax Submissions

Supplementary Information: A tax reporting business object has been developed that produces a generic tax activity report in XML. This extract can be used in the creation of statutory tax reports.

Benefits:

- An export facility **Tax Submission Query** for your input/output tax submissions.
- You now can create your own tax reports using this feature.
- Functionality now exists to extract tax data (Sales Invoices, Purchase Invoices and Cash Book, etc.) based on your defined filters and date selections.
- A generic extract template is available that allows you to develop your own reports or import into other systems.

Dunning System

The **Dunning System** feature manages the generating and distributing of periodic reminders for unpaid invoices.

This helps streamline the credit management process and reduce the risk of incurring bad debts. Once configured, the process can be automated to routinely send out payment notifications.

Improved Payment Cycle

A payment cycle can be completed without needing to first print a check remittance.

You can select from the following printing options within the Accounts Payable module:

- Print checks and remittance advices combined on pre-printed stationery
- Print checks and remittance advices separately on different stationery and/or printers
- Print only remittance advices
- Print nothing at all (useful for electronic payments as remittance advices are often not sent when paying via EFTs)

AP/AR Exchange Rate Revaluation

This functional enhancement provides for better visibility, control and management of variances associated with purchase price variances and exchange rates in the purchasing cycle and sales cycle.

Benefits:

- Better visibility of exchange rate variances allows for better control over variances during your purchasing and sales cycle.

AR Tax on Settlement Discount

All programs in the *Accounts Receivable* and *Accounts Payable* modules handle **withholding tax** and **tax on settlement discount** concurrently, depending on the configuration settings.

The following programs in the *Accounts Receivable* module were enhanced to ensure that both types of taxes can be used at the same time:

- AR Payments and Adjustments
- AR Bank Deposit Slip
- AR Payments Distribution Query
- Payment Cycle Maintenance
- AP Manual Check Entry
- AP Release Invoices to Pay by Review

The **Re-establish Invoice** pane has been updated to accommodate this change.



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