



Enhancements

SYSPRO 7 Update 1 | Port 028

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SYSPRO Technical Authoring

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Port 028

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

SYSPRO health checks (cont.)

Version	Issue	Port
7.0	001_SP1	028

What was done?

This forms part of the SYSPRO Health Check suite of business objects that were designed to quickly correct balancing issues detected by the system.

SYSPRO Database issues

A new business object (**COM SQL Health Corrections**) was added as part of the Health Check Correction suite of objects that allows you to correct most issues that commonly can occur within a SYSPRO database. The business object can be used to correct the following:

- Standard table missing
- Standard column missing
- Column definition does not match SYSPRO definition
- User defined column not nullable and has no default constraint (will set to nullable)
- Standard custom form table missing
- Custom form column definition does not match SYSPRO definition
- User defined custom form column not nullable and has no default constraint (will set to nullable)
- Standard index missing
- Index column mismatch (index will be dropped and recreated)
- Index defined against incorrect table (index will be dropped against that table and added to the correct table)
- User defined primary key (primary key will be dropped and standard primary key will be added)
- Standard custom form index missing
- Custom form index mismatch (index will be dropped and recreated)
- Custom form index defined against incorrect table (index will be dropped and added to correct table)
- Standard foreign key missing
- Standard foreign key is enabled (this will be disabled)
- Foreign key defined against incorrect table (will be dropped and added to correct table(s))
- Foreign key column mismatch (will be dropped and recreated)

Functionality added to the Health Check Correction business object

Functionality was added to the **Health Check Correction Control** business object to allow balance corrections between sales orders and inventory as well as SQL database corrections to tables, columns, indexes and foreign keys.

Where can I see the change?

Program	Description	Version
COMTSQ	COM SQL Health Corrections	000
COMTHC	Health Check Correction Control	002

File	Version
HEALTHCHECKSQLCUSTOMINDEXES.SQL	003
HEALTHCHECKSQLCUSTOMTABLESCOLUMNS.SQL	003
HEALTHCHECKSQLSTDINDEXES.SQL	003
HEALTHCHECKSQLSTDTABLESCOLUMNS.SQL	003
MSGCOMEN.IMP	033

SYSPRO Harmony collaborative tool

Version	Issue	Port
7.0	001_SP1	028

Why was this done?

SYSPRO Harmony is a social ERP platform embedded in the SYSPRO product and combines social media, collaboration, machine learning cognitive services and data analytics into one application. It uses these technologies (together with the core SYSPRO data) to bring users together, surface information and enable organizations to make quicker and easier decisions.

What was done?

Harmony includes a number of components:

- News feed
- Collaboration
- Surface trends
- Follow key fields
- Data mining service
- Rules-based engine

New Feed

This is an area in Harmony that shows all messages and conversations in which you were mentioned. It also shows activity of key items (e.g. customers, suppliers, stock codes, sales orders, etc.) in SYSPRO that you follow. For example: If you choose to follow a customer *Bayside Bike*, your feed will update every time there is activity for that customer (e.g. when customer information has changed, or when a sales order has been created).

There are also some intelligent algorithms that look at what your peers follow as well as what is trending in the database and these will be surfaced in your news feed based on the weighting.

Collaboration

The collaboration aspect in Harmony brings SYSPRO users together via *chat* similar to **WhatsApp** or **Skype**. Unlike traditional chats, Harmony allows user to collaborate, bringing the context of the ERP data into the conversations using social media techniques like *hashtags*.

When collaborating, you have full secure access to the data in the SYSPRO database directly within the chat. You can also query stock information, sales order statuses, customer information and use the information directly in the chat. You can *reply* and *like* messages that have been posted, thus elevating its importance or relevance.

Within the conversations, Harmony also makes use of a cloud-based cognitive services that detect conversation sentiment. It will detect if the conversation's sentiment has a positive, negative or neutral sentiment and indicate it to you.

Surface trends

Most social media applications like **Twitter** or **LinkedIn** use intelligent machine learning algorithms to detect trends from the messages that are being posted and surface that information to you according to relevance. Harmony does something similar, but also applies this to the Core SYSPRO database.

Harmony will identify transactions occurring within the SYSPRO database, and also identify the key fields against which the transactions are taking place and performs trend detection and aggregation of this data. It will then present this information to you in the form of a chart, and show you what is currently trending in the SYSPRO database.

For example: A stock code could be used in a large number of sales orders as well as a purchase order or RMA. In this case, the stock code would be trending and you will be able drill down into that stock code to establish why it is trending across the different modules.

This simply piece of functionality brings critical information to your attention without you even requesting it and without having to consolidate reports across the different modules.

Following key fields

Harmony also allows you to follow key fields in SYSPRO - the SYSPRO UI will be enhanced to allow you to simply click on a key field and choose to follow that item.

Data Mining Service

The data mining service enables Harmony to obtain access to all the information and transactions in SYSPRO. The service can reside anywhere in the SYSPRO infrastructure, but best practice recommends you install it on the same server as the SQL Server. The mining service monitors the SYSPRO database and analyses its transaction log. It cleanses the data and then stores it in a relational database ready to be processed.

Rules-based engine

The rules-based engine works with the data mining service, allowing users to create complex triggers and perform actions without the use of SQL triggers. Harmony also makes use of the rules-based engine. If you follow a particular item, a rule is automatically added to the engine; when the rule executes, a beat is posted to the Harmony database.

Where can I see the change?

A comprehensive document covering this feature is available from the **Reference** area of the [SYSPRO InfoZone](#) (**Specialist Area > Reference Guides > SYSPRO Harmony Getting Started Reference Guide**).

The `autorun` executable file can be downloaded from the **Software Downloads** area of the [SYSPRO InfoZone](#) (**Links > Ports and Downloads**).

Program	Description	Version
COMFCM	COM Generic Fetch Multiple	000
COMQRL	COM Rules Engine Query Functions	000
COMTHM	Harmony Add Tracking Business Object	000
COMTRL	COM Rules Engine Post Functions	000
COMUPD	COM Service Update Utility	000
ESPQRY	COM Espresso Retrieve Information	020
HRMPEN	SYSPRO Harmony	000
HRMQRY	COM Harmony Retrieve Information	000
IMPSET	System Setup	034

File	Version
SYSPRO.HARMONY.API.EXE	000
SYSPRO.HARMONY.SERVICE.EXE	000
SYSPRO.RULES.DATA.SERVICE.EXE	000
SYSPRO.RULES.ENGINE.SERVICE.EXE	000
SYSPRO.SERVICE.UPGRADE.MANAGER.EXE	000
SYSPROMA_SYSPRO.DLL	004
IMPUPD.IMP	025
IMPESP.IMP	028
IMPHRM.IMP	000
IMPMOD.IMP	008
IMPTYP.IMP	018
IMPRUL.IMP	000
UX_APP_HRMPENLZ.JSON	000
UX_JS_HARMONYINTEROP.MIN.JS	001

Objects optimized for SQL (cont.)

Version	Issue	Port
7.0	001_SP1	028

What was done?

Business objects have been changed to use SQL-optimized code to retrieve data from a SQL company. This will improve the performance of the business objects when using a SQL database.

Where can I see the change?

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

Program	Description	Version
BOMQ24	List of ECC Status and Routings	005
IMPQ31	List of Master/Sub-Accounts	004

Additional updates

The following additional updates were made to the software.

SYSPRO Espresso

Miscellaneous charge lines can be created, updated, deleted and viewed within SYSPRO Espresso Sales Orders app and order lines can now also be viewed.

Control Toast Notifications

Previously, the functionality of Toast Notifications was bundled with the **Task Dialog Customizations** option (**System-wide Personalization**). There is now a new **Enable Toast Notifications** option which allows you to switch on this functionality independently, as well as control its behaviour.

A **Toast Notifications delay** option allows you to configure how long you want the notification to remain on screen. This defaults to 4 seconds and can be set to a maximum of 2 minutes.

A **Close Toast Notification when typing** option lets you override any delay you have configured and to close the notification as soon as you start typing.

Program	Description	Version
IMPFRB	System-wide Personalization	029
IMPFR0	Display/Entry/Custom Forms	209
IMP MEN	Main SYSPRO Menu	192

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.

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The Technical Authoring team comprises: Freya Nell, Carol Hart, Monique MacNaught and Even Nasset. Send us your comments to help us improve the standard of our reference guides.



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