



# Enhancements

SYSPRO 7 Update 1 | Port 017

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Produced by: SYSPRO Technical Authoring



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## Port 017

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

### Database upgrades

Version	Issue	Port
7.0	001_SP1	017

### Why was this done?

This forms part of SYSPRO's scheduled database structure updates implemented from SYSPRO 7 Update 1 Port 005. This relates to SQL Server-based systems and was done in an effort to accelerate software development agility as some of the latest features required additional columns in existing tables and/or additional tables.



There are no changes to existing indexes, no data normalization and no changes to existing columns (such as renaming columns, changing data types, or changes to the actual data against each row).

### What was done?

The following new columns and tables have been added to the company-wide database:

Table	Column
ArDiscDrCrHdr	DrCrType
ArCustomer	SalesAllowed
	UnappPayAllowed
	PaymentsAllowed
	QuotesAllowed
	CrNotesAllowed
	DrNotesAllowed
	QueryAllowed
IopSalesAdjust	Operator
MrpBuildSchedJnl	Operator
MrpForecastJnl	Operator
PorScrapRejectIns	Operator
AdmHealthLog	
AdmSqlhealthBal	
ArRegisterRef	
GrtBalances	
InvGtrBalance	
InvOnHandBal	
InvSalesQtyBal	

Table	Column
SorDetailQtyBal	

The following new tables have been added to the system-wide database:

Table	Column
DefnCustomForm	
DefnCustomFormIdx	
DdsColumns	
DdsForeignKeys	
DdsIndexes	
DdsTables	

## How is it deployed?

Before you begin the upgrade, ensure that:

- you do not run any of the upgrade scripts manually - they must only be run using the SYSPRO login process
- an administrator logs in if there is a problem with the bulk insert information (sa login or password, bulk insert code page or temporary folder) to correct the problem using the System Setup program.

These steps are followed during the upgrade process:

1. The system-wide database upgrade script is applied.
2. The Data Dictionary is transferred from `BASE\DD_701` to the system-wide database.

Some parts of the data dictionary have been migrated to the SQL Server to optimize performance and take advantage of the data dictionary being located in the SYSPRO system-wide database.

Part of this upgrade process will create these data dictionary tables and populate them with content from the data dictionary shipped with this port.

Until now the SYSPRO database has been shipped as a set of ISAM files in the `SYSPRO BASE \DD_701` folder. All SYSPRO programs that access the data dictionary access these ISAM files as required. This will not change in the near future.

Note: The SQL version of the data dictionary should be treated as read-only for 3rd parties - when new updates are applied to the ISAM data dictionary this SQL version will be refreshed (by removing previous contents).

3. If you are using SYSPRO Espresso, the Espresso tables are created and populated in the system-wide database.
4. If you are using SYSPRO Point of Sale, the new system-wide data dictionary tables will be setup for replication.
5. The current company database will be upgraded by running the company specific script.
6. All other companies will be upgraded using the company specific script.

## SQL optimize business objects

Version	Issue	Port
7.0	001_SP1	017

Program	Description	Version
BOMQ3L	ECC Change Order Status Report	008

Program	Description	Version
MRPQ51	MRP Capacity Loading Report	008
MRPQ59	MRP Average Queue Time Report	007
MRPQ62	MRP Build Schedule Action Report	005
PORQ8A	LCT Bill of Landed Costs	007
PORQRU	Requisition Users Query	008
WIPQ08	WIP Detail Report	011
WIPQ31	WIP Job Variance	012
WIPQ37	WIP Tracking Report	007
WIPQ69	WIP Work Center Efficiency	006

## Why was this done?

There was a requirement to optimize existing business objects for SQL. This is to improve the performance of the business objects when using a SQL database.

The business objects have been changed to use SQL optimized code to retrieve data from a SQL company.

## 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 bank maintenance

Version	Issue	Port
7.0	001_SP1	017

Program	Description	Version
CSHSMB	Bank Maintenance	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 banks required within the system.

## 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 descriptive tax codes

Version	Issue	Port
7.0	001_SP1	017

Program	Description	Version
IMPSDT	Descriptive Tax Code Maintenance	000

File	Version
MSGCOMEN.IMP	027

### Why was this done?

A new business object was created to enable e.net Solutions developers to develop applications to add, update and delete descriptive tax codes required within the system.

### 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 product class maintenance

Version	Issue	Port
7.0	001_SP1	017

Program	Description	Version
ARSSMP	AR Product Class Maintenance	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 product classes required within the system.

### 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 PO from requisition

Version	Issue	Port
7.0	001_SP1	017

Program	Description	Version
PORTTP	Create P/orders from Requisitions	000

### Why was this done?

A new business object was created to enable e.net Solutions developers to develop applications to create purchase orders from approved requisitions.

### Where can I see the change?

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

## New query business objects

Version	Issue	Port
7.0	001_SP1	017

Program	Description	Version
ARSQCS	Post Dated Check Status Report	000
ARSQMI	AR Missing Invoices Query	000
ARSQMR	AR Missing Register Numbers	000
ARSQPR	AR Payment Run Report	000
BOMQ3D	ECC Drawing Registers Query	000
GENQMJ	List of missing GL Journals	000
RMAP20	RMA Issue and Receipt	055

### Why was this done?

New business objects were created to enable e.net Solutions developers to develop applications to query information within the system.

### What was done?

The following query business objects have been created:

- PDC Status Report Query  
This business object is used to query the status of post dated checks.
- AR Missing Invoices Query  
This business object is used to query missing invoices.
- AR Missing Registers Query  
This business object is used to query missing AR registers for the current financial year and period.
- AR Payment Run Query  
This business object is used to query the AR Payment Run detail records.
- ECC Drawing Register Query  
This business object is used to query details on the ECC Drawing Register.
- GL Missing Journals Query  
This business object is used to query a specific year or period for missing journal numbers.
- RMA Issue and Receipt

Changes have been made to this business object, which include:

- The RMA Number may be passed behind the program name.
- If the string passed starts with the prefix `CUS=`, this will be treated as a customer number up to 15 chars long.

The **Number** must start at position 5 of the string.

- After the customer number there can be one or two spaces and the prefix `SRV:` and then a service ticket number, or if there is no `SRV:` the next string will be treated as the header user defined field.

The **Service ticket number** must start at position 5 of the string and can only be 20 characters long.

It is important that both these strings are treated as one string each.



## Where can I see the change?

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

## SYSPRO health checks

Version	Issue	Port
7.0	001_SP1	017

Program	Description	Version
COMQHC	Health Check Query	000
COMQSQ	COM SQL Health Check	000
COMTDD	COM Migrate Data Dictionary to Database	000
IMPDG6	Admin Diagnostics - SQL Diagnostics	031
IMPSCP	SQL Execute SQL Scripts	014
IMPSPPP	SQL Script Pre Processor	000
IMPSTC	Admin Standard Extra Library Routines	001
INVP01	Inventory Period End	062
INVQBG	Goods in Transit Balance Check Query	000
INVQBL	Inventory On Hand Balance Check Query	000
INVQBS	Inventory to Sales Balance Query	000
INVQVE	Inventory Valuation Summary Query	004
INVTBG	Goods in Transit Balance Function	000
INVTBL	Inventory On Hand Balance Function	000
SORQBL	Sales Line Quantity Balance Query	000

File	Version
HEALTHCHECKSQLCUSTOMINDEXES.SQL	000
HEALTHCHECKSQLCUSTOMTABLESCOLUMNS.SQL	000
HEALTHCHECKSQLSTDINDEXES.SQL	000
HEALTHCHECKSQLSTDTABLESCOLUMNS.SQL	000
MSGCOMEN.IMP	027

## Why was this done?

There was a requirement to establish if a balance function should be run in a SYSPRO module, or if a SQL database is healthy and conforms to SYSPRO's requirements.

Currently there is no easy way to identify this and as a result various balance functions and checks are run when they are not required.

## What was done?

A new business object has been created that allows you to run a number of health checks on the application data and the SQL database.

A number of health checks can be run from this business object, including:

- Inventory On Hand Check

This will identify any imbalances between the on hand quantity in the warehouse and the lots, multiple bins and FIFO buckets.

Any differences will be output to the new **InvOnHandBal** table to indicate whether or not the out-of-balance function needs to be run in Inventory.

The balance functions in the Inventory Period End program now use this business object.

- Sales Quantity Check

This will identify any imbalances between quantities on sales order detail lines (SorDetail) and the related subsidiary tables (SorDetailLot, SorDetailBin, SorDetailSer).

Any differences will be output to the new **SorDetailQtyBal** table to indicate if detail lines and their lots/bins/serials require corrections in sales orders, which will be done within the Sales Order Entry program.

This table will be populated in each company database as the tables being compared are company specific.

- Sales To Inventory Check

This will identify any imbalances between quantities on sales order detail lines (SorDetail) and the inventory warehouse table.

Any differences between the quantities on active sales order detail lines and the equivalent columns in inventory will be output to a new **InvSalesQtyBal** table.

The out-of-balance entries returned by this query can be rectified by running the Sales Order Purge and selecting the **Validate inventory quantity allocations** option.

This table is only populated when run from the holding company for inventory.

- Goods In Transit Check

This will identify any imbalances between quantities and values in the Goods in Transit tables as well as the inventory warehouse table.

Any differences between the transactions (GtrTransactions) and the detail (GtrDetail) or header (GtrMaster) are output to new SQL tables **GtrBalances** and **InvGtrBalance**.

The balance functions in the Inventory Period End program now use this business object.

- SQL Health Check

This will identify whether or not there are any problems with the SYSPRO database.

This will perform a number of diagnostic tests to verify whether the database being tested is valid for SYSPRO. These tests use the SYSPRO data dictionary tables to verify that the database is correct. The results are output to a new company specific table **AdmSqlHealthBal**.

The procedure that is followed when each health check is run includes:

- An entry is output to the health check log file
- The relevant business objects are called
- The results from the business object are added to the XML out according to the options selected
- The entry created in the Health check is updated with the end date and time, the status and any relevant message.

An entry will be output into a new SQL table **AdmHealthLog** providing the status of the health check that was run and indicate any problems, or a health issue that needs attention.

The following prerequisites must be met for this business object to run correctly:

- The company must be a SQL company

## Where can I see the change?

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

# Appendix

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## Additional resources

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### 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](http://infozone.syspro.com/support) 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 Nettet, Monique MacNaught, Natalie Le Roux and Carol Hart. Send us your comments to help us improve the standard of our reference guides.



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