Readiness Check

SYSPRO 8

Reference Guide

SYSPRO™

CONTENTS

SYSPRO 8 Readiness Check

SYSPRO 8 Readiness Check

Exploring

Where it fits in?

The **SYSPRO 8 Readiness Check** program is a diagnostic program that you run on your *SYSPRO 7 Update 1* SQL database(s) to identify any issues that may cause the conversion process to fail. It verifies your system environment and company databases to ensure that the conversion to *SYSPRO 8* is as simple as possible.

If you are currently running *SYSPRO 7 Update 1* (ISAM) you can (on a separate environment) migrate your data to *SYSPRO 7 Update 1* (SQL) and then run the **SYSPRO 8 Readiness Check**.

Navigation

- This program is accessed from the **Program List** of the SYSPRO menu:

    SYSPRO 7 Update 1 > Program List > Administration

Starting

Prerequisites

- Ensure that you are on **Port 36** (*SYSPRO 7 Update 1*) to ensure that you have all of the latest enhancements to this program.

Security

Activities

You restrict operator access to *activities* within a program using the **Operator Maintenance** program.

Fields

You can restrict operator access to the *fields* within a program (configured using the **Operator Maintenance** program).

eSignatures

You can restrict access to the eSignature *transactions* within a program at operator, group, role or company level (configured using the **eSignature Setup** program). You can restrict access to the eSignature *transactions* within a program at operator, group, role or company level (configured using the **Electronic Signature Configuration Setup** program). Electronic Signatures provide security access, transaction logging and event triggering that gives you greater control over your system changes.

Groups

You can restrict operator access to *programs* by assigning them to groups and applying access control against the group (configured using the **Operator Groups** program).

Passwords

You can restrict operator access to *functions* within a program using passwords (configured using the **Password Definition** program). When defined, the password must be entered before you can access the function.

Restrictions and Limits

- You cannot run this program from an ISAM company.

  All companies must be converted to SQL before they can be converted to *SYSPRO 8*.

Using

Process

The **SYSPRO 8 Readiness Check** displays a row of information regarding your system-wide database. In addition, an additional row is shown; one for each company. This is determined by reading the company control files (`ADMCTL`) in the `\Work` folder.

Each entry is initially shown with a white flag icon to indicate that it has not yet been validated. You can select multiple entries and then run the validation on these entities.

The **SYSPRO 8 Readiness Check** then performs a number of system and company validation checks.

Hints and Tips

Ensure that the **auto close** option is not enabled for any SYSPRO database as this can cause problems when trying to bulk insert or process cross-database updates.

Referencing

System checks

Field	Description	Importance
SQL version	The **SYSPRO 8 Readiness Check** verifies your current version of SQL. *SYSPRO 8* supports SQL versions from 2008 R2 onwards. If you are using an older SQL version, the following error is displayed: `This is an unsupported version of SQL. SQL 2008 R2 is the earliest version supported in SYSPRO 8`	**Critical** Requires addressing prior to conversion

Field	Description	Importance
Crystal version	The **SYSPRO 8 Readiness Check** verifies the **System Setup** program (Reporting tab) to determine if Crystal 2013 is selected. If you are using an older version of Crystal, the following error is displayed: `Not supported in SYSPRO 8`	**Warning** Requires addressing prior to conversion
Microsoft Office Components	The **SYSPRO 8 Readiness Check** doesn't check these components, but will display the following message: `Office components (Excel, Word and Outlook) SOI only supports versions from Microsoft Office 2010 onwards`	**Information only** Any operators required to make use of Microsoft Office components integrated with *SYSPRO 8* will need to upgrade their Office suite.
Client Server Communications	If you are using **CCI** as your method of communication between client server, the following error is displayed: `SYSPRO CCI Service Not Supported in SYSPRO 8`	**Warning** This means that when you install *SYSPRO 8*, you must use the SYSPRO client-server communications service, as CCI is no longer supported.
Custom Form Data Format	If you are using the legacy format for custom form data, the following error is displayed: `Custom forms must be converted to the '+' table format before converting to SYSPRO 8`	**Critical** Requires addressing prior to conversion. Therefore, you must use the Custom Form admin tool to migrate your Custom Form data format.

Field	Description	Importance
ISAM file checks for system database	The **SYSPRO 8 Readiness Check** will attempt to open all of the ISAM files that require conversion to SQL in the system database. If there is an error on one or more of these files, the following message is displayed: `One or more system ISAM files require re-indexing before converting to SYSPRO 8` All files with errors are then shown in the list view.	**Critical** Files require reindexing prior to conversion. This will ensure that they are valid before the *SYSPRO 8* data migration proceeds.
System database	The **SYSPRO 8 Readiness Check** verifies the existence of any tables that may have the same name as a *SYSPRO 8* table to be created. If one or more are found then the following message will appear: `One or more SQL tables exist in the database which are reserved for the ISAM file conversion. These need to be renamed or deleted before converting to SYSPRO 8` All tables with issues are then shown in the list view.	**Critical** Requires addressing prior to conversion as it may prevent the correct creation of new tables. You may need to investigate why there is a table in the system-wide database with the same name as a table created when migrating to *SYSPRO 8*.

Field	Description	Importance

Database collation	If (prior to the migration) your database's collation was configured as case insensitive the migration may result in errors, as information contained in the ISAM files is case sensitive.
	
	For example: You may have two stock codes of `ABC` and `abc`; this will cause the conversion to fail with a duplicate entry in the `InvMaster` table.
	
	Therefore the **SYSPRO 8 Readiness Check** verifies that the collation for the system database is case sensitive. This is achieved by scanning the collation name for `_CI` which implies case insensitive.
	
	If the collation for the database is not case sensitive then the following error is shown:
	`Database collation.The database collation 'xxxxxxxxx' is case insensitive. This must be changed to a case sensitive collation before converting to SYSPRO 8`. (where `xxxxxxxx` is the current collation)
		Critical
		
		Requires addressing prior to conversion.
		
		You can change the collation on a database by using either of the following methods:
		
		- **SQL Server Management Studio** (SSMS)
		- Using **Transact-SQL** script
		
		> It is important to note that changing the collation using a script is NOT applied to existing tables and columns, but will only be applied to entities added subsequent to the change.
		
		For detailed information on how to do this using either method: `Set or Change the Database Collation`
		
		Alternatively, you can change the database collation to a Case Sensitive collation (`_CS` in the name), or to a binary collation (`_BIN2` in the name).
		
		For example:
		`Latin1_General_BIN2`
		
		or
		
		`Latin1_General_CS_AS`

Field	Description	Importance

Database compatibility level	A compatibility level that is less than 100 is not supported in *SYSPRO 8*, therefore the **SYSPRO 8 Readiness Check** verifies the compatibility level of your SQL database.
	
	If the compatibility level for the database is found to be less than 100 then the following error is shown:
	
	`Database compatibility level`
	
	`The compatibility level of 'nn' is not supported in SYSPRO 8.`
	
	For further information regarding compatibility levels: `Understanding SQL Server Compatibility Levels`
		Critical
		
		Requires addressing prior to conversion.
		
		You can change the compatibility level on a database by using either of the following methods:
		
		- **SQL Server Management Studio** (SSMS)
		- Using **Transact-SQL** script
		
		For detailed information on how to do this using either method: `View or Change the Compatibility Level of a Database`

Field	Description	Importance

Custom programs	The **SYSPRO 8 Readiness Check** reviews the following areas to establish whether any custom COBOL programs are called:
	
	Custom COBOL programs are those that are not defined in `IMPPRG.IMP` as a standard SYSPRO program.
	
	- Document Flow Manager
	- Electronic Signatures
	- Task Items
	
	If any are found the following warning message is displayed, along with details as to where they are defined:
	`Custom programs`
	
	`Custom programs are in use. Please ensure that a compatible version is available before converting to SYSPRO 8.`
		Critical
		
		Requires addressing prior to conversion.
		
		Please speak to your third party vendor to ensure that there is a version of the software which is compatible with ***SYSPRO 8***.

Field	Description	Importance
System Check DB	The **SYSPRO 8 Readiness Check** will cycle through all the companies that are licensed to use *SYSPRO Report Writer*, checking to ensure that their primary data paths are all the same.	**Critical** Requires addressing prior to conversion. If there are multiple report writer definitions residing in multiple folders, then these must be consolidated into a single set of definition files and these files must all reside in the primary data folder. Reports for each company can be consolidated into a single set by exporting the definition from the source definition set (**Maintain Report** > **File** > **Export Report**) and then imported to the target definition set (**Browse on Reports** > **File** > **Import Report from** > **Text**).

> 💡 This is because it is possible for you to define specific ISAM locations at company level and this means that the different **Report Writer Definition** files are unique for each and every company which has a different location.

If multiple report writer definition locations are found, then the following message is displayed:

```
Report Writer Definition

Definitions exist in folders
other than the primary data
folder. These need to be
relocated for the system
conversion to take them into
account.

Multiple definitions need to
be consolidated using the
import/export functionality.
```

The reason for checking this is

Field	Description	Importance
	that in **SYSPRO 8** all companies use the same set of **Report Writer Definitions** as defined in the **SYSPRO 8** system database.	

Company checks

The following checks are performed on each of the companies selected:

Field	Description	Importance
C-ISAM	If the company selected is validated as being C-ISAM, the following error message is displayed: `Company must be converted to SQL before converting to SYSPRO 8`	**Critical** Requires addressing prior to conversion. No further checks are made.
SYSPRO version	If the company selected is validated as being on a version of SYSPRO prior to ***SYSPRO 7 Update 1***, the following error message is displayed: `Company must be converted to SYSPRO 7 Update 1 before converting to SYSPRO 8`	**Critical** Requires addressing prior to conversion. No further checks are made.
Company database existence	If the company database doesn't exist, the following error message is displayed: `Company database does not exist in the SQL instance`	**Critical** Requires addressing prior to conversion. No further checks are made.
Company control file	If the **SYSPRO 8 Readiness Check** encounters a problem accessing the control file, the following error message is displayed: `Error accessing the company control file`	**Critical** This is highly unlikely but must be addressed prior to conversion. Reindexing should resolve the issue.
Web based applications	If the company is licensed for Web based applications, a row with the following informational message is displayed: `Not supported in SYSPRO 8`	**Information only** Legacy web-based apps not supported in ***SYSPRO 8***.

Field	Description	Importance
Preactor	If the company is licensed for Preactor, a row with the following informational message is displayed: `Not supported in SYSPRO 8`	**Information only** Preactor integration is not available in ***SYSPRO 8***.
DFM	If the company has DFM installed, the following informational message is displayed: `Before converting to SYSPRO 8 ensure that no documents are currently queued for DFM`	**Information only** This is a reminder to ensure that all documents have been processed before starting the ***SYSPRO 8*** migration.
ISAM file checks for company database	The **SYSPRO 8 Readiness Check** will attempt to open all of the ISAM files that are to be converted to SQL in each company database. If there is an error on one or more of them, the following error message is displayed: `One or more company ISAM files require reindexing before converting to SYSPRO 8` All files with errors are then shown in the list view.	**Critical** Files require reindexing prior to conversion
Company database tables	The **SYSPRO 8 Readiness Check** checks for the existence of any tables that may have the same name as new tables in ***SYSPRO 8***. If one or more are found, the following error message is displayed: `One or more SQL tables exist in the database which are reserved for the ISAM file conversion. These need to be renamed or deleted before converting to SYSPRO 8` All tables with issues are then shown in the list view.	**Critical** Requires addressing prior to conversion as it may prevent the correct creation of new tables

Field	Description	Importance
Lot archive files	While these files do not need to be converted at the time of upgrading to *SYSPRO 8*, it is advisable that these be reindexed prior to upgrading. The **SYSPRO 8 Readiness Check** will attempt to open these files and if they fail the following error message is shown: `One or more Lot Archive files are either not found or require reindexing before converting to SYSPRO 8` Each file with issues is then included in the list view.	**Critical / Warning** If these files are not found this is only a warning message, as they can be made available and converted once you are in *SYSPRO 8*. However, if one or more of these files require reindexing, then this is critical and needs to be addressed prior to converting.
Sales order, ECC BOM and WIP Job archive files	These files do not need to be converted at the time of upgrading to *SYSPRO 8*. There is no reindexing for these files, therefore the **SYSPRO 8 Readiness Check** just ensures that they are available and will display the following message if any files are not found: `One or more archive files not found` Each file not found is then included in the list view.	**Warning** If these files are not found, you can make them available and convert once you are in *SYSPRO 8*

Field	Description	Importance

Database collation	If (prior to the migration) your database's collation was configured as case insensitive the migration may result in errors, as information contained in the ISAM files is case sensitive.
	
	For example: You may have two stock codes of `ABC` and `abc`; this will cause the conversion to fail with a duplicate entry in the `InvMaster` table.
	
	Therefore the **SYSPRO 8 Readiness Check** verifies that the collation for the system database is case sensitive. This is achieved by scanning the collation name for `_CI` which implies case insensitive.
	
	If the collation for the database is not case sensitive then the following error is shown:
	`Database collation.The database collation 'xxxxxxxxx' is case insensitive. This must be changed to a case sensitive collation before converting to SYSPRO 8`. (Where `xxxxxxxx` is the current collation)
		Critical
		
		Requires addressing prior to conversion.
		
		You can change the collation on a database by using either of the following methods:
		
		- **SQL Server Management Studio** (SSMS)
		- Using **Transact-SQL** script
		
		> It is important to note that changing the collation using a script is NOT applied to existing tables and columns, but will only be applied to entities added subsequent to the change.
		
		For detailed information on how to do this using either method: Set or Change the Database Collation
		
		Alternatively, you can change the database collation to a Case Sensitive collation (`_CS` in the name), or to a binary collation (`_BIN2` in the name).
		
		For example:
		`Latin1_General_BIN2`
		or
		`Latin1_General_CS_AS`

Field	Description	Importance

Database compatibility level	A compatibility level that is less than 100 is not supported in *SYSPRO 8*, therefore the **SYSPRO 8 Readiness Check** verifies the compatibility level of your SQL database.
	
	If the compatibility level for the database is found to be less than 100 then the following error is shown:
	
	`Database compatibility level`
	
	`The compatibility level of 'nn' is not supported in SYSPRO 8.`
	
	For further information regarding compatibility levels: `Understanding SQL Server Compatibility Levels`
		Critical
		
		Requires addressing prior to conversion.
		
		You can change the compatibility level on a database by using either of the following methods:
		
		■ **SQL Server Management Studio** (SSMS)
		
		■ Using **Transact-SQL** script
		
		For detailed information on how to do this using either method: `View or Change the Compatibility Level of a Database`

Field	Description	Importance
Custom programs	The **SYSPRO 8 Readiness Check** reviews the following areas to establish whether any custom COBOL programs are called:	**Critical** Requires addressing prior to conversion. Please speak to your third party vendor to ensure that there is a version of the software which is compatible with *SYSPRO 8*.

The SYSPRO 8 Readiness Check reviews the following areas to establish whether any custom COBOL programs are called:

> Custom COBOL programs are those that are not defined in `IMPPRG.IMP` as a standard SYSPRO program.

- Electronic Signatures
- Events
- Task Items
- Triggers
- Workflows

If any are found the following warning message is displayed, along with details as to where they are defined:

```
Custom programs

Custom programs are in use.
Please ensure that a
compatible version is
available before converting
to SYSPRO 8.
```

SYSPRO