

# Upgrading Point of Sale

SYSPRO 8 | Upgrade Guide

Last Published: January 2020



# Contents

<b>Prerequisites.....</b>	<b>4</b>
About this guide.....	4
<b>Introduction.....</b>	<b>5</b>
<b>SYSPRO Architecture Enhancements.....</b>	<b>6</b>
Architecture enhancements.....	6
Business Objects.....	6
Technologies and features no longer supported in SYSPRO 8.....	7
Optimized for SQL.....	8
Overview.....	8
Benefit summary.....	9
Enhancement Details.....	9
Restrictions and limits.....	10
Improved System Scalability.....	10
Benefit summary.....	10
Enhancement details.....	10
Improved System Availability.....	11
Benefit summary.....	11
Enhancement details.....	11
Improved Software Deployment.....	12
Benefit summary.....	12
Enhancement details.....	12
VBScripts to use CallBo function rather than 'enetguid' variable.....	12
<b>Point of Sale End of Day Processing.....</b>	<b>13</b>
End Of Day Processing.....	13
Month End.....	14
End of Day Posting .....	14
Entering the cash values for the end of day.....	16
Entering the card values for the end of day.....	17
Allocating an amount to petty cash.....	17
Posting an end of day.....	17
<b>Upgrade SYSPRO 7 to SYSPRO 8.....</b>	<b>19</b>
SYSPRO 8 restrictions and limits.....	19
SYSPRO 8 upgrade considerations.....	19
Upgrading SYSPRO 7 to SYSPRO 8.....	21
Upgrading SYSPRO 7 Databases.....	37
<b>How to install SYSPRO Point of Sale.....</b>	<b>41</b>
<b>Components installed.....</b>	<b>46</b>
<b>Preparing for SYSPRO 8 Point of Sale.....</b>	<b>47</b>
Services.....	47
SYSPRO 8 Avanti Initialization Service.....	48
SYSPRO 8 e.net Communication Load Balancer.....	48
Point of Sale Services.....	51
<b>Installing Point of Sale Online.....</b>	<b>53</b>



Uninstalling SYSPRO 7 Point of Sale Services.....	53
Installing SYSPRO Point of Sale.....	53
Installing the SYSPRO Point of Sale Services.....	62
Launching SYSPRO Point of Sale Online for the first time.....	67
<b>Installing Point of Sale Offline.....</b>	<b>70</b>
Installing SYSPRO Avanti Initialization Service - Offline.....	70
Installing SYSPRO 8 Point of Sale Offline Foundation.....	75
Installing SYSPRO Point of Sale e.net Communications Service .....	79
Installing SYSPRO 8 Point of Sale Offline.....	84
<b>Epilogue.....</b>	<b>91</b>
Copyright.....	91
Comment Sheet.....	91



# Prerequisites

## About this guide

Version SYSPRO 8.00

The Point of Sale Upgrade Guide provides you with the details to uninstall and install SYSPRO Point of Sale Version 8.

You will cover SYSPRO 8 considerations and SYSPRO 8 architecture enhancements are explained



**Note:** This guide is aimed at SYSPRO users who have a good understanding of the Windows operating system environment, Microsoft SQL Server and Internet Information Services. This requires an understanding of technical aspects of the SYSPRO environment and is not recommended for first time users.



# Introduction

Planning to upgrade to SYSPRO 8 and SYSPRO 8 Point of Sale?

SYSPRO have changed the way their architecture works and this has impacted on SYSPRO 8 Point of Sale. For this reason you will not be able to upgrade to SYSPRO 8 Point of Sale before you have uninstalled SYSPRO 7 Point of Sale.

In preparation of the upgrade, make sure that all end of day functions have been posted to SYSPRO and that there are no transactions in manage online. Backup your Databases.

Using the **Uninstall a program** remove the following for both online and offline.

- SYSPRO Point of Sale Services.
- SYSPRO Point of Sale Print Service.

There are a few more things you need to do:

1. Drop all branch replication subscriptions.
2. Drop all Point of Sale related SQL Publications.
3. Upgrade SYSPRO 7 to SYSPRO 8.
4. Install SYSPRO 8 Point of Sale.

# SYSPRO Architecture Enhancements

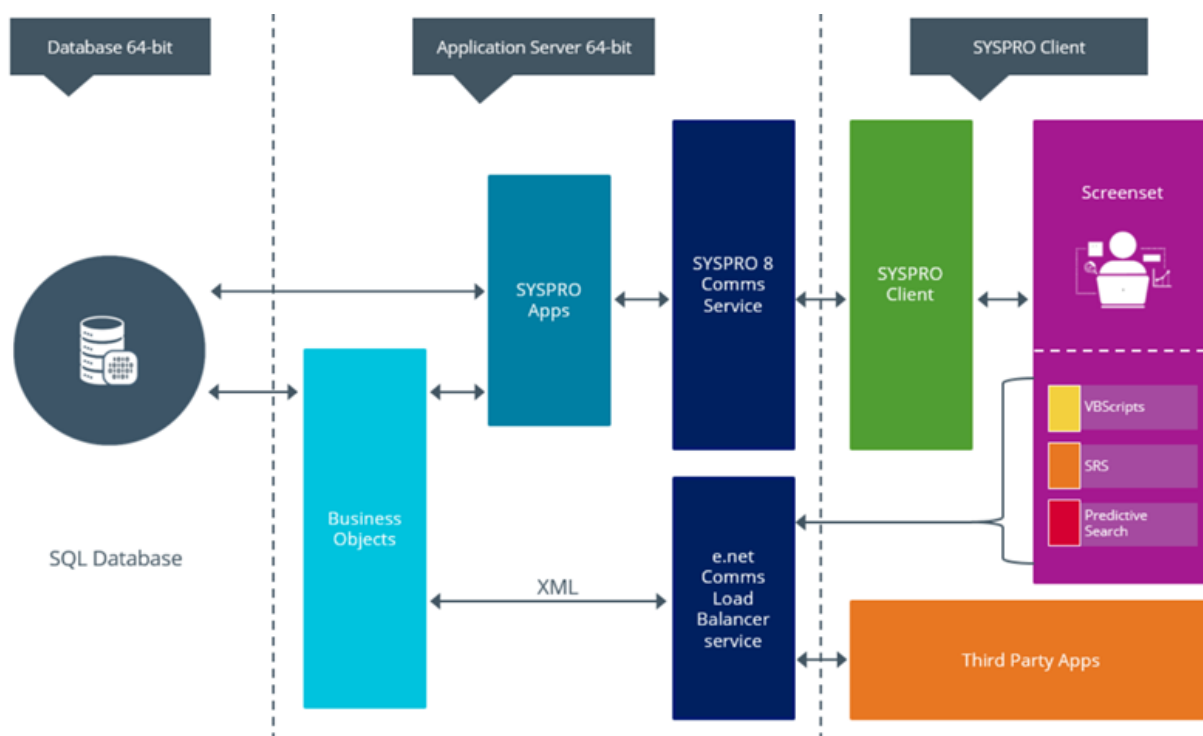
## Architecture enhancements

Various improvements have been made to the architecture of SYSPRO 8 to future-proof the product and plan for innovative development.

### e.net Communication Load Balancer service

As SYSPRO 8 strives towards sophisticated simplicity, we have enhanced how the client-server and e.net environments work:

- The **SYSPRO 8 Communications Service** is used for client-server communications, as this is a faster, more secure, 64-bit and firewall-friendly communication method.
- Specific client components (e.g. VBScript, SRS, Predictive search, etc.) use the SYSPRO 8 e.net Communications Load Balancer service to call the relevant business objects. This is a more secure, scalable, robust, 64-bit method of running e.net business objects.
- All third party apps access SYSPRO via the **SYSPRO 8 e.net Communications Load Balancer service**.



## Business Objects

### Custom Form Query

<b>Description of change:</b>	<p>From SYSPRO 8 onwards, only authorized operators will be able to run direct calls to the COM Custom Form Query ( COMQFM) business object.</p> <p>However, operators who run calls to this business object via another business object (e.g. INVQRY - Inventory Query) are unaffected.</p>
-------------------------------	--

Reason:

Improved security.

## Technologies and features no longer supported in SYSPRO 8

In addition to focusing on SQL Server for improved scalability and availability and future-proofing your systems, SYSPRO 8 is also about simplifying the system where possible. For this reason, some options have been simplified and/or removed as part of this process. In all cases the options that remain provide for improved scalability, performance, availability and/or security.

The SYSPRO 8 Readiness Check program (run from within SYSPRO 7 Update 1) performs a number of validation checks when determining if your system is ready to be upgraded and will advise on some of the technologies that are no longer supported.

### SQL Connections

Removed:	Connecting to Microsoft SQL Server using an ODBC DSN.
Reason:	Prevents setup requirements and resulting issues with native ODBC drivers.
Replaced by:	SQL Server connection strings. Already the preferred option in SYSPRO 7 Update 1.

### Custom Form data format

Removed:	Support for a single table storing all custom form data.
Reason:	Poor scalability, poor data accessibility and poor performance as data grows.
Replaced by:	Separate tables per master table. Already the preferred option in SYSPRO 7 Update 1.

### Client-Server communication technology

Removed:	Client-server communication using legacy CCI technology.
Reason:	Inappropriate port handling over a firewall, and poor resilience when reduced network stability.
Replaced by:	SYSPRO 8 Communications Service using Microsoft WCF technology. Already the preferred option in SYSPRO 7 Update 1.

### Web-based applications

Removed:	Web-based applications using the legacy HTML interface.
Reason:	Very limited functionality and no customization available, based on legacy technologies.
Replaced by:	SYSPRO Espresso mobile solutions provides functionality available in the web-based applications, is highly customizable, provides off-line functionality, etc.

### SAP Crystal 2008

Removed:	Support for SAP Crystal 2008.
Reason:	Crystal 2008 is no longer supported by the OEM vendor.
Replaced by:	The new version to use is SAP Crystal 2013.

## ISAM

Removed:	Support for ISAM data format.
Reason:	Lower performance, increased file system usage, poor data integrity, etc.
Replaced by:	Microsoft SQL Server provides enterprise-strength Data Integrity, Security, Scalability, Availability, Simplicity and Performance that can be accessed by all popular querying and reporting tools.

## Encore.dll via e.net Communications Service

For more information, please read the SYSPRO e.net Solutions article.

Removed:	Direct calls to Encore.dll are no longer available.
Reason:	<p>Directly referencing Encore.dll using COM/DCOM limits applications to 32-bit as well as SYSPRO's future expandability.</p> <p>In addition, any third party applications referencing the SYSPRO DLL's directly make it difficult for SYSPRO to easily enhance the system without requiring each third party application to also be changed. Web Services are still supported, so developers who have previously used Web Services will work unchanged.</p>
Replaced by:	<p>Using the SYSPRO 8 e.net Communications Load Balancer service de-couples applications from the e.net 64-bit library and provides excellent scalability and performance.</p> <p><b>Additional benefits:</b></p> <ul style="list-style-type: none"><li>• No limitation of being tied to a specific technology (e.g. 32-bit, etc.)</li><li>• The system is more robust as any failures don't prevent the system from continuing on the other threads.</li><li>• The system is multi-threaded and has a significantly improved performance under load.</li><li>• Third party applications can reside on any server/computer that has access to the endpoint.</li></ul>

## Optimized for SQL

### Overview



**Note:** SYSPRO 8 is a Microsoft SQL only system

Now that support for ISAM data files has been removed, SYSPRO 8 can truly focus on the SQL Server platform. As a cloud-based database management system it provides enterprise-strength Data Integrity, Security, Scalability, Availability, Simplicity and Performance that can be accessed by all popular querying and reporting tools.

The product can further improve SQL optimization and leverage SQL Server specific features. These translate into numerous benefits to our customers:

- Higher performance
- Enhanced scalability
- Improved availability
- Robust data integrity
- Trusted security



- Building for the Cloud
- Simplicity

All part of our continuing journey to provide better performance, improved scalability and rock solid data integrity, both on-premise and cloud-based.

## Benefit summary

	Performance	Scalability	Availability	Data Integrity	Security	Simplicity
Reduced file system usage	✓	✓	✓	✓	✓	
Improved locking strategies	✓	✓	✓	✓		
Improved Security					✓	
Simplified system configuration						✓
Initial support for SQL as a Service		✓	✓			

## Enhancement Details

### Reduced file system usage

Focus on SQL means greatly reduced file system usage, providing improved Performance, Scalability, Availability, Data Integrity and Security.

#### Benefits

- Simplified backup strategies
- Reduced cost of high performance disk subsystems dedicated to the file system. This is especially useful in the Cloud.
- Improved data integrity as we no longer have to cater for the re-indexing of corrupted index files

#### What has changed?

- All ISAM data files are now migrated to SQL (WORK and DATA)
- Many sequential data files migrated to SQL (CMS and GL)
- Utilization of SQL specific datatypes - such as varchar (max) and varbinary (max) - for storing large text and binary data

### Improved locking strategies

The improvements on locking strategies in SYSPRO 8 provide increased Performance, Scalability, Availability and Data Integrity.

#### What has changed?

- SYSPRO 8 uses lighter resource locks for Transaction Processing, resulting in:
  - Less chance of deadlocks
  - Reduced database log usage
- Consistent use of resource locking:
  - This ensures that locks are only acquired when necessary and for the shortest time possible; providing more availability and scalability
  - Applied across all relevant SYSPRO applications

### Improved Security

#### Benefits

- Stronger encryption used for SQL login and password (industry standard)

- Encrypted credentials and strings passed between internal components, which helps reduce attack surface

These benefits are especially important with SYSPRO in the Cloud.

### Simplified system configuration

We have decided to focus on using connection strings to connect to SQL Server.

This results in the setting up of an ODBC Data Source Name (DSN) obsolete and removes problems with native SQL drivers.

### Initial support for SQL as a Service

SYSPRO are working closely with Microsoft on a new SQL version focused on Cloud deployments, as part of our continuing journey for hosting SYSPRO in the Cloud.

### Benefits

- Support is being built in for connection, bulk insert and general data access to this environment.
- Assists with reduction in cost of ownership, when running SYSPRO in the Cloud

## Restrictions and limits

- Minimum requirements: Microsoft SQL Server 2008 R2 More recent versions (and some editions) of SQL Server can provide additional performance and scalability benefits over-and-above the minimum version.

## Improved System Scalability

### Benefit summary

	Performance	Scalability	Availability	Data Integrity	Security	Simplicity
Re-engineered e.net architecture	✓	✓	✓			✓
Re-engineered server architecture	✓	✓	✓			
Simplified service infrastructure	✓	✓	✓			✓

## Enhancement details

### Re-engineered e.net architecture

Detailed benefits of this enhancement include:

- 64-bit
- Increased memory
- Optimized performance
- Increased scalability
- Improved compatibility with 64-bit ecosystems (such as Microsoft SQL 64-bit, Windows 64-bit, etc.)
- Improved ability to roll out software improvements
- Services and programs optimized to work with multi-byte languages
- Increased number of local instances (6 digits are now supported)

### Re-engineered server architecture

Detailed benefits of this enhancement include:

- 64-bit

- Enhanced scalability
- Faster performance
- Improved compatibility with 64-bit ecosystems (such as Microsoft SQL 64-bit, Windows 64-bit, etc.)

### Simplified service infrastructure

The SYSPRO and WCF Service is now used for all e.net access.

This results in a simpler, more consistent and uniform approach to calling business objects.

A new CallBo method has been developed for improved VBScripting and other technologies, providing benefits that include:

- Reduced network traffic
- Enhanced scalability
- Improved performance. As a result of this enhancement, the enetGUID variable is no longer available for use in a VBScript, as this was a legacy mechanism that performed a logon to e.net so that business objects could be called.

## Improved System Availability

### Benefit summary

	Performance	Scalability	Availability	Data Integrity	Security	Simplicity
Balancing optimization	✓	✓	✓	✓		
SQL health check optimization	✓		✓	✓		✓

### Enhancement details

#### Balancing optimization (Data)

Ongoing improvements are being made to the following two aspects of the balancing function (even when using massive data):

- Balancing query
- Balancing and correction

#### SQL health check optimization (Databases)

Ongoing improvements are being made to SQL health checking ( SQL Server Diagnostic program).

The purpose is to optimize the SQL environment and dramatically improve performance in the following two aspects:

- SQL health check query
- SQL health check correction

The SQL Server Diagnostic program identifies potential problems with the SQL Server database used by SYSPRO companies.

Previously, the program identified differences between the existing database and the standard SYSPRO tables, columns and indexes that should exist, but didn't make any changes to the database.

From SYSPRO 8, this has been optimized to check between the data dictionary and the database, and now validates more thoroughly in the respect that it not only validates the databases, but also adds any missing tables, columns, indexes, foreign keys, etc.

In addition, if the validation fails due to corrupt data, the system will advise on the errors for correction.



This provides less down-time, enhanced healing and increased performance during health checks.

## Improved Software Deployment

### Benefit summary

### Enhancement details

#### Deployment and installation

From SYSPRO 8 we have re-engineered how we deploy and install the product.

This new and improved upgrade methodology provides an extended period of stability during deployment (especially for customers with strict acceptance criteria) and includes the following:

- Quarterly software updates: Providing improved stability for 90 day period
- Hotfixes for interim bug repairs:
  - Relevant to the version you are currently on, as well as the services applicable to your system
  - You have the choice of which repairs you wish to put down
- Ability to install, uninstall or repair updates or hot fixes
- Notifications of specific bug fix availability
- Full visibility on what software you have installed

The purpose of this development is to provide system stability.

## VBScripts to use CallBo function rather than 'enetguid' variable

<b>Description of change:</b>	<p>When creating a VBScript in SYSPRO 7 Update 1 and prior versions, a special variable named enetguid was available. This legacy variable was required in older VBScripts to invoke an e.net business object.</p> <p>This logic was superseded several versions ago, by allowing you to use the simpler CallBo function call to invoke e.net business objects.</p> <p>So, if you have previously used the enetguid variable, you need to recode your VBScript to use the CallBo function.</p>
<b>Reason:</b>	Simpler process.

# Point of Sale End of Day Processing

## End Of Day Processing

Processing end of day is the initial transfer of all the money from your transaction bank (cash clearing bank) to your **Cash Clearing General Ledger** account (overs/unders account). From that account, all the money would then be transferred in summary amounts to your actual banks in your cash book as setup against the payment types in **SYSPRO Point of Sale**.

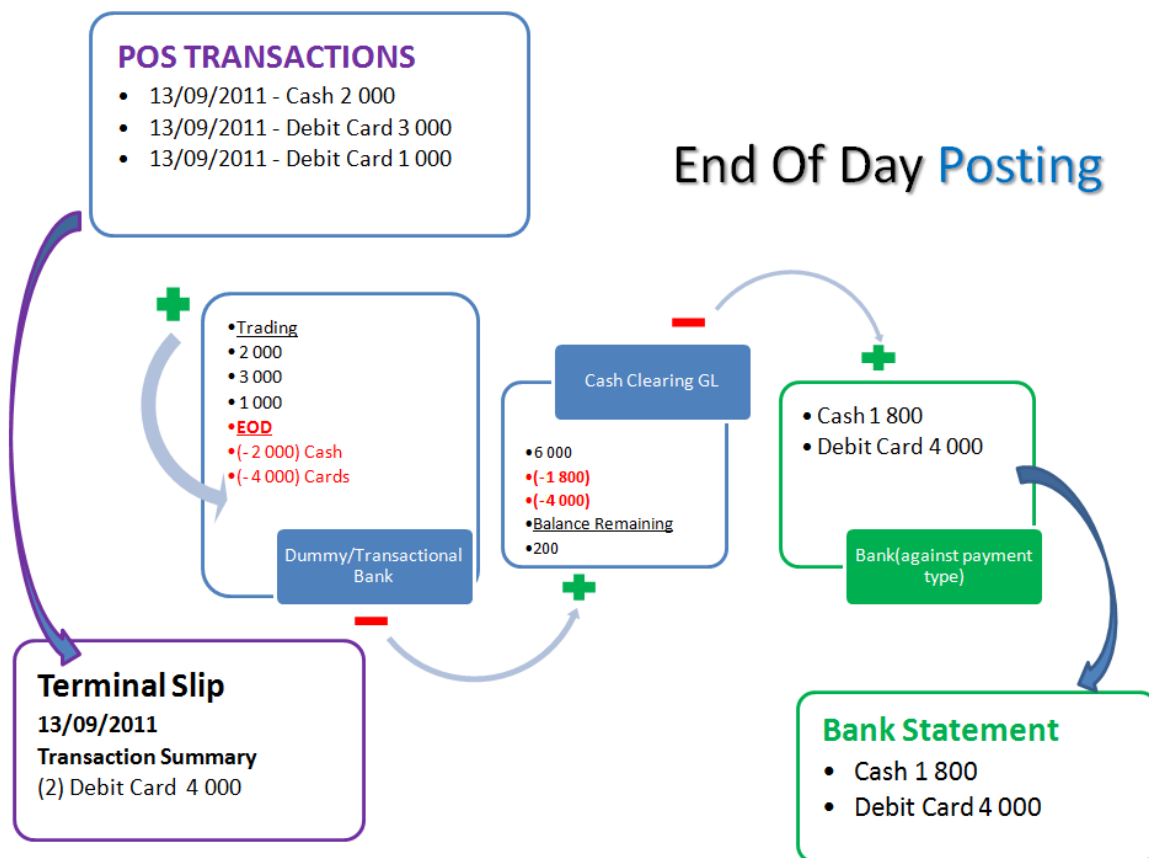
The card terminal used for processing card payments will print out a slip once it has completed its posting to the actual bank. It will summarize all payments that it has deposited.

You use the **End of Day** program to select the cash-ups to include in an end of day and enter the payments in the required areas e.g. **ATM Deposit**, **Petty Cash Deposit** and **Bank Deposit** (the ability to post into any of these areas is determined when you add your currency denominations).

Cash and card transaction are entered separately and you can enter the **Petty Cash Bank and Reference** if you are posting to a **Petty Cash Bank**.

If required, perhaps due to an error capturing amounts, you can undo the **End of Day Cash-Up**, as long as it has not been posted.

When the EOD is posted, the following financial transactions happen in the background. As you can see below, when the EOD is processed - the system will withdraw whatever the system says it should have **out** of the transactional bank and into the **Variance GL**. It will then withdraw from the **Variance GL**, for the amount that was captured in the cash-ups and deposited in the associated bank account. Any difference left in the **Variance GL** account is what is under or over.



Using the above diagram as an example, the amounts that should be filled into the **End of Day** program are shown below. They will post through to the actual bank in the cash book the same way they will show up on the bank statement received from the relevant bank authority.

#### Terminal 1

- Batch234
- Credit cards: 1 000.00
- Debit cards: 3 000.00
- Cash 2 000.00

## Month End

**SYSPRO Point of Sale** will work with SYSPRO periods as follows:

- When invoices and payments are processed in **SYSPRO Point of Sale**, the period will be calculated based on the transaction date.
- When and EOD is processed, a date can be specified which will calculate the period corresponding to the date.

The following processes are recommended for **SYSPRO Point of Sale** when processing **Month End**.

#### Online

- Make sure all transactions have been posted to SYSPRO.
- Make sure all cash-ups and EOD's have been processed.
- Roll the **Cash Book**, **Inventory** and **Accounts Receivable (AR)** modules at the same time.

It is important that the periods are rolled and month end is performed on the above mentioned modules before users start trading again. **SYSPRO Point of Sale** cannot post to periods that are not yet open, so if the transactions from the new month happen before month end in SYSPRO, they will be posted to the incorrect period. **SYSPRO Point of Sale**, like SYSPRO, can only post back to a previous period if it is still open, never to a future period.

#### Offline

- Make sure all transactions have been posted to SYSPRO.
- Make sure all cash-ups and EOD's have been processed.
- Take the branches offline by stopping the posting services.

The benefit of offline is that you can take the branches offline. In the event that month end takes longer than expected, you can keep the branches offline until all the period ends for the affected modules have been run (**Cash Book**, **AR** and **Inventory**). This allows the branches to continue trading un-effected while month end happens in SYSPRO. Once month end is complete, the branches can be taken online again and posting will continue in the correct period.



**Note:** This only applies to offline functionality. If **Manage Orders** is used for taking payments, it will post directly to SYSPRO in the current period.

An important thing to note is that all three modules (**Cash book**, **Inventory** and **AR**) must be rolled simultaneously when using **SYSPRO Point of Sale**. If the cash book is kept in the previous period while waiting for supplier payments, it will result in the sales being reflected in the new period but the payments in the bank and transactional bank being processed in a different period. It is impossible for **SYSPRO Point of Sale** to post to a future period so the cash book must be rolled into the new period but you can keep it open and post back to the previous period in SYSPRO for any outstanding transactions.

## End of Day Posting

The following explains the different steps the end of day posting to SYSPRO follows, the corresponding entries in the database table have also been provided for your reference.



Step	PostingStatus	PostingError	EndOfDayKeysAndValues key	Extra Information
1	Blank	Blank		This will only happen if <b>Validate End Of Day</b> transactions is selected on branch setup.
	VALIDATE ALL TRANSACTIONS ARE POSTED BEFORE POSTING END OF DAY	Error Present		
2	VALIDATE ALL TRANSACTIONS ARE POSTED BEFORE POSTING END OF DAY	Blank		
	MOVE ALL PAYMENTS FROM CASH CLEARING BANK TO CASH CLEARING GL	Error Present	SysproWithdrawalBank SysproWithdrawalTrnYear SysproWithdrawalTrnMonth SysproWithdrawalJournal	This withdraws from <b>Transactional Bank</b> to <b>Overs\Unders GL</b> the full amount of all payments taken during the <b>Take Payment</b> process.
3	MOVE ALL PAYMENTS FROM CASH CLEARING BANK TO CASH CLEARING GL	Blank		
	DEPOSIT DYNAMIC CASH DEPOSITS	Error Present	SysproDynamicCashDepositGIYear SysproDynamicCashDepositGIPeriod SysproDynamicCashDepositGIJournal	This will do a general ledger transfer from <b>Overs\Unders GL</b> account to <b>ATM</b> and <b>Petty Cash GL</b> accounts if amounts are specified.
4	DEPOSIT DYNAMIC CASH DEPOSITS	Blank		This deposits all payment codes with a payment type of <b>Cash</b> and all payment codes with a posting group of <b>Cash</b> as one summarized total
	DEPOSIT CASH AND PAYMENT CODES GROUPED WITH CASH	Error Present	SysproCashGroupDepositBank SysproCashGroupDepositTrnYear SysproCashGroupDepositTrnMonth SysproCashGroupDepositJournal	Currently only payment types of <b>Check</b> are allowed to be grouped with payment types of <b>Cash</b> .
5	DEPOSIT CASH AND PAYMENT CODES GROUPED WITH CASH	Blank		This will deposit all payment codes which are of the payment type <b>Check</b> only if the payment code is not grouped with the payment type <b>Cash</b> .
	DEPOSIT CHECKS	Error Present	SysproChecksDepositBank SysproChecksDepositTrnYear SysproChecksDepositTrnMonth SysproChecksDepositJournal	Each payment code will be posted in summary.
6	DEPOSIT CHECKS	Blank		If petty cash was specified on the end of day screen this will reconcile the entry in SYSPRO .
	RECONCILE PETTY CASH	Error Present	SysproPettyCashReconcileBank SysproPettyCashReconcileTrnYear	

Step	PostingStatus	PostingError	EndOfDayKeysAndValues key	Extra Information
			SysproPettyCashReconcileTrnMonth SysproPettyCashReconcileJournal	
7	RECONCILE PETTY CASH	Blank		This will do a deposit into the bank for the terminal payments specified on the end of day screen.
	DEPOSIT TERMINAL PAYMENTS	Error Present	SysproCreditDebitFuelDepositBank SysproCreditDebitFuelDepositTrnYear SysproCreditDebitFuelDepositTrnMonth SysproCreditDebitFuelDepositJournal	
8	DEPOSIT TERMINAL PAYMENTS	Blank		This will do a general ledger transfer of the difference between the cashed up value of payment codes with the payment type <b>EFT</b> minus the actual amount.
	DEPOSIT UNACCOUNTED EFT	Error Present	SysproUnAccountedEftDepositGIYear SysproUnAccountedEftDepositGIPeriod SysproUnAccountedEftDepositGIJournal	
9	DEPOSIT UNACCOUNTED EFT	Blank		This will post a deposit into the cashbook bank for each payment code with the payment type <b>EFT</b> in detail.
	DEPOSIT EFT PAYMENTS	Error Present	SysproEftDepositBank SysproEftDepositTrnYear SysproEftDepositTrnMonth SysproEftDepositJournal	
10	DEPOSIT EFT PAYMENTS	Blank	Reserved for future use	Reserved for future use.
	DEPOSIT GIFT VOUCHER PAYMENTS	Error Present	Reserved for future use	
11	DEPOSIT GIFT VOUCHER PAYMENTS			This will set the end of day status to <b>Completed</b> and <b>PostingStatus</b> to <b>COMPLETE</b> .

## Entering the cash values for the end of day

The following steps describe how to load a complete operator cash-up and enter the cash values for the end of day.

- Open the **End of Day** program (**SYSPRO Point of Sale for Avanti main menu > Finance > End of Day > End of Day**).  
The **End of Day** window is displayed.
- Select complete operator cash ups.
  - Select **Select cash-ups**.  
The **Select Cashups** window is displayed.
  - Select the checkbox for one complete cash up to include.
  - Select **OK**.  
The **End of Day** window is populated with consolidated values from the selected cash-ups.
- Specify how the cash is to be distributed in SYSPRO.
  - Balance out the total in cash-ups column to one of the enabled options.
- Select **Save**.



## Entering the card values for the end of day

The following steps describe how to load a complete operator cash-up and enter the card values for the end of day.

1. Open the **End of Day** program (SYSPRO Point of Sale for Avanti main menu > Finance > End of Day > End of Day).  
The **End of Day** window is displayed.
2. Select complete operator cash ups.
  - a) Select **Select Cash-Ups**.  
The **Select Cashups** window is displayed.
  - b) Select the checkbox for one complete cash up to include.
  - c) Select **OK**.  
The **End of Day** window is populated with consolidated values from the selected cash ups.
3. Enter the card values.
  - a) Select **Card payments** pane.  
The **End of Day** window is refreshed and populated with empty fields to capture the card summary detail.
  - b) Balance out the total in cash ups column to each of the additional payment types.
  - c) Enter the full total due for credit cards in the total field.
4. Select **Save**.
5. Print the end of day report.
  - a) Select **Print End of Day**.  
The **Printing Options** window is displayed.
  - b) Select **Print**.

## Allocating an amount to petty cash

The following steps describe how to load a complete operator cash-up and enter the cash values to be allocated to petty cash in the end of day posting.

1. Open the **End of Day** program (SYSPRO Point of Sale for Avanti main menu > Finance > End of Day > End of Day).  
The **End of Day** window is displayed.
2. Select complete operator cash ups.
  - a) Select **Select Cash-Ups**.  
The **Select Cashups** window is displayed.
  - b) Select the checkbox for one complete cash up to include.
  - c) Select **OK**.  
The **End of Day** window is populated with consolidated values from the selected cash ups.
3. Specify how the cash is to be distributed in SYSPRO.
  - a) Allocate an amount to petty cash.
  - b) Enter the amount in the **Petty Cash Deposits** column.
  - c) Remove the same amount from the **Bank Deposits** column.
4. Select **Save**.

## Posting an end of day

The following steps describe how to post an end of day to SYSPRO.

1. Open the **End of Day** program (SYSPRO Point of Sale for Avanti main menu > Finance > End of Day > End of Day).  
The **End of Day** window is displayed.
2. Select complete operator cash ups.
  - a) Select **Select Cash-Ups**.  
The **Select Cashups** window is displayed.
  - b) Select the checkbox for one complete cash up to include.



c) Select **OK**.

The **End of Day** window is populated with consolidated values from the selected cash ups.

3. Post the end of day to SYSPRO.

a) Select a **Period Posting Date**.

b) Select **Save & post**.

The end of day is posted to SYSPRO.

# Upgrade SYSPRO 7 to SYSPRO 8

## SYSPRO 8 restrictions and limits

You cannot run the SYSPRO Installer application on a machine for which Federal Information Processing Standard (FIPS) has been enabled.

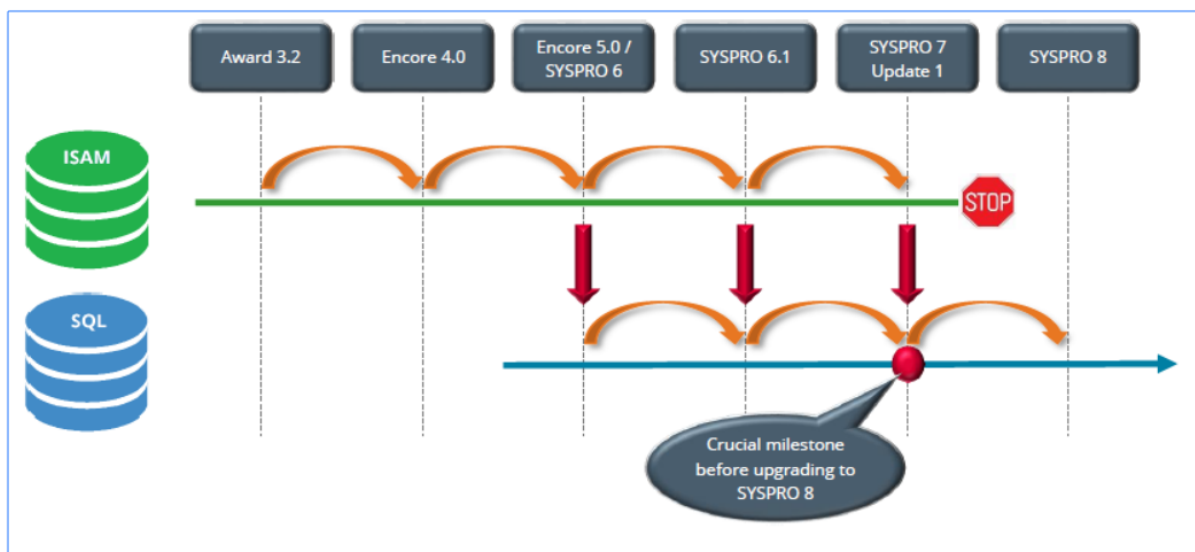
## SYSPRO 8 upgrade considerations

You can upgrade to SYSPRO 8 from any previous version of SYSPRO (including Encore and Award versions) but all upgrades need to be done in a systematic and version-by-version manner (as explained in the diagram and upgrade matrix below).

From the Encore 5.0/ SYSPRO 6.0 release, we introduced support for SQL databases and steadily moved the system from ISAM to SQL.

As SYSPRO 8 is a SQL-only environment, it no longer uses any ISAM files. So, if your current SYSPRO version is still on ISAM, you have 2 options available:

- Update along the ISAM path until you reach SYSPRO 7 Update 1 and then migrate to SYSPRO 7 Update 1 SQL, before upgrading to SYSPRO 8.
- Migrate to SQL on any of the intermediate versions, before following the upgrade path to reach SYSPRO 8.



### Sample scenario 1:

- If you are currently on SYSPRO 6.1 SQL, you have to upgrade to SYSPRO 7 Update 1 SQL before you can upgrade to SYSPRO 8.

### Sample scenario 2:

- If you are currently on SYSPRO 6.1 ISAM, you could do either of the following:
  - Upgrade to SYSPRO 7 Update 1 (ISAM) > Migrate to SYSPRO 7 Update 1 (SQL) > Upgrade to SYSPRO 8.
  - Migrate to SYSPRO 6.1 (SQL) > Upgrade to SYSPRO 7 Update 1 (SQL) > Upgrade to SYSPRO 8.

## SYSPRO upgrade matrix

The following tables provide you with the sequence of upgrade steps required in order to reach SYSPRO 8, depending on your current SYSPRO version and choice of migration point:

Migrate to SQL from ISAM before following the upgrade path:

		Steps to Upgrade to SYSPRO 8					
		Upgrade to Encore 4.0	Upgrade to SYSPRO 6	Migrate data to SQL	Upgrade to SYSPRO 6.1	Upgrade to SYSPRO 7 Upd 1	Upgrade to SYSPRO 8
Current SYSPRO Version	Award 3.2 or prior	1	2	3	4	5	6
	Encore 4.0		1	2	3	4	5
	SYSPRO 6 ISAM			1	2	3	4
	SYSPRO 6 SQL				1	2	3
	SYSPRO 6.1 ISAM			1		2	3
	SYSPRO 6.1 SQL					1	2
	SYSPRO 7 Upd 1 ISAM			1			2
	SYSPRO 7 Upd 1 SQL						1

Follow the upgrade path to SYSPRO 7 Update 1 (ISAM), before migrating to SQL:

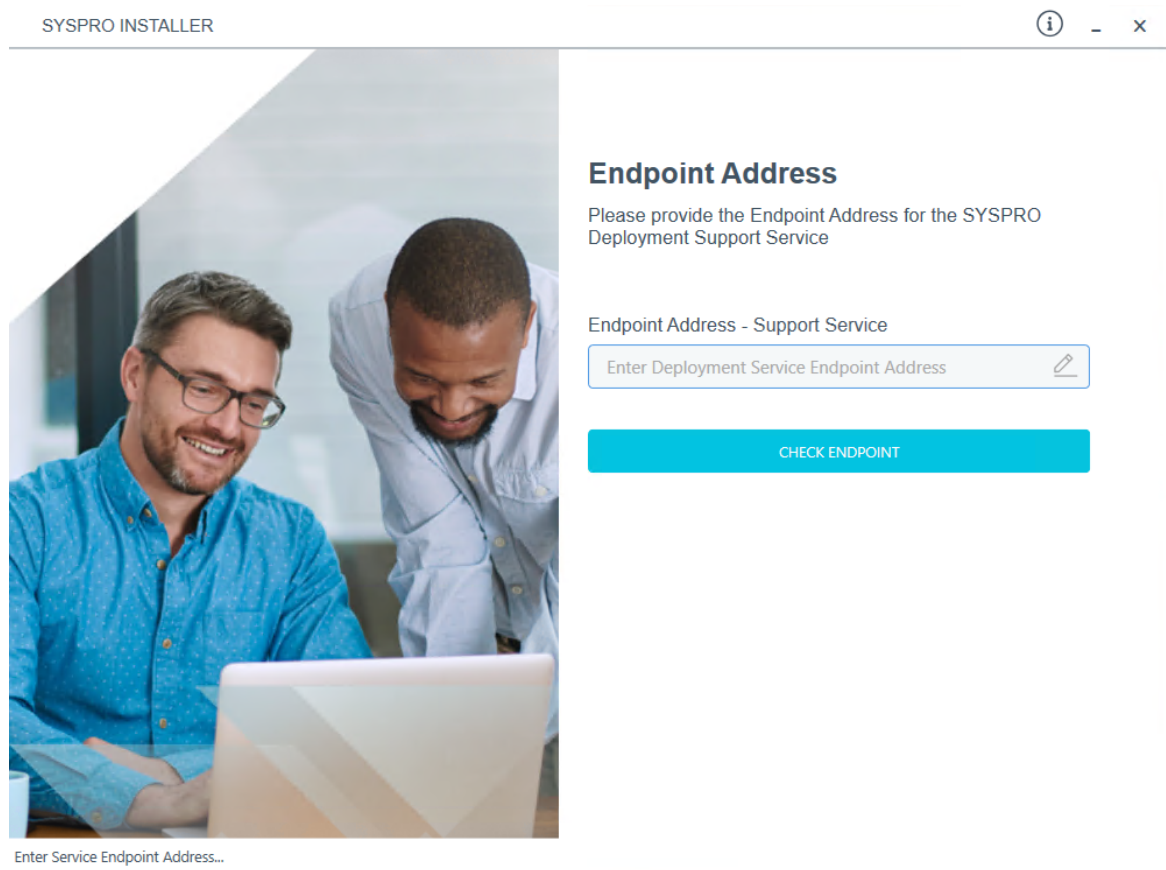
		Steps to Upgrade to SYSPRO 8					
		Upgrade to Encore 4.0	Upgrade to SYSPRO 6	Upgrade to SYSPRO 6.1	Upgrade to SYSPRO 7 Upd 1	Migrate data to SQL	Upgrade to SYSPRO 8
Current SYSPRO Version	Award 3.2 or prior	1	2	3	4	5	6
	Encore 4.0		1	2	3	4	5
	SYSPRO 6 ISAM			1	2	3	4
	SYSPRO 6 SQL			1	2		3
	SYSPRO 6.1 ISAM				1	2	3
	SYSPRO 6.1 SQL				1		2
	SYSPRO 7 Upd 1 ISAM					1	2
	SYSPRO 7 Upd 1 SQL						1

## Upgrading SYSPRO 7 to SYSPRO 8

The following steps describe how to upgrade your SYSPRO 7 software to SYSPRO 8.

1. Run the latest **SYSPRO installer**.

The **SYSPRO Installer Endpoint Address** window is displayed.



SYSPRO INSTALLER

### Endpoint Address

Please provide the Endpoint Address for the SYSPRO Deployment Support Service

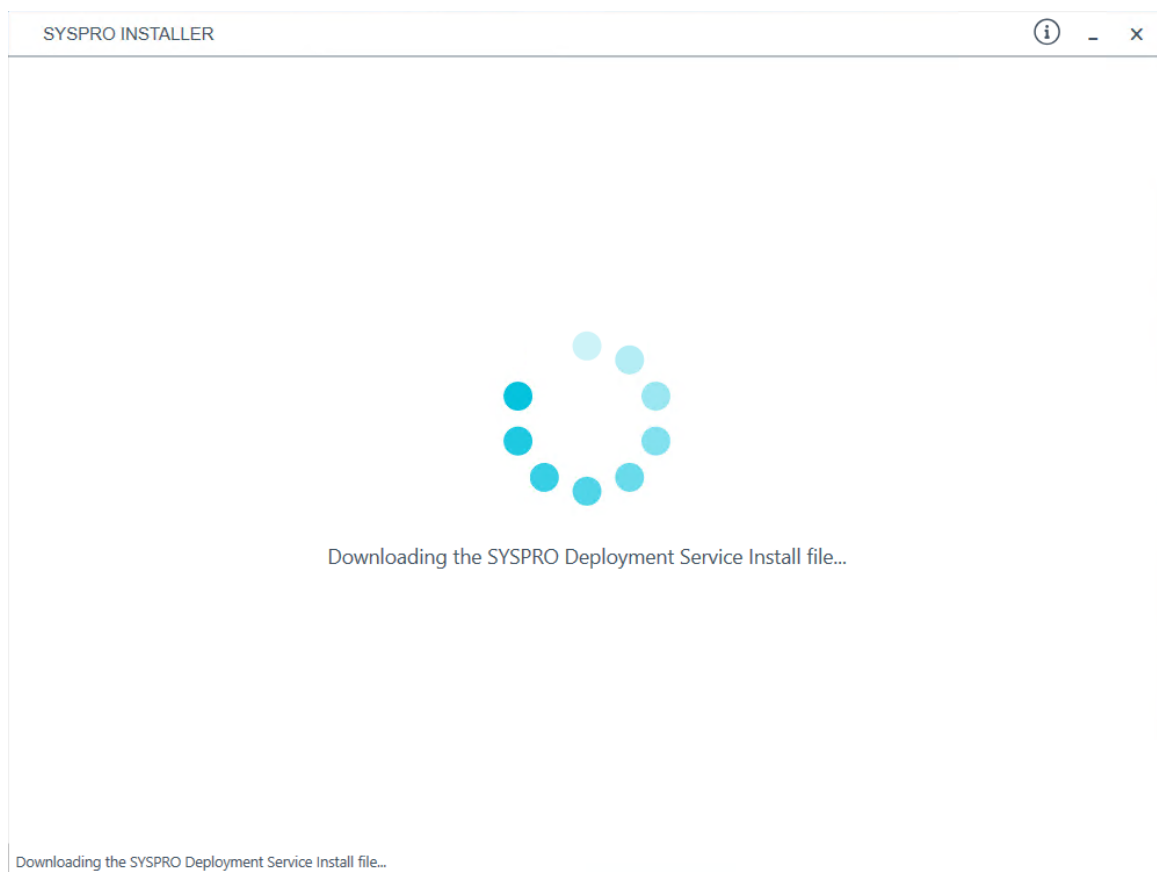
Endpoint Address - Support Service

CHECK ENDPOINT

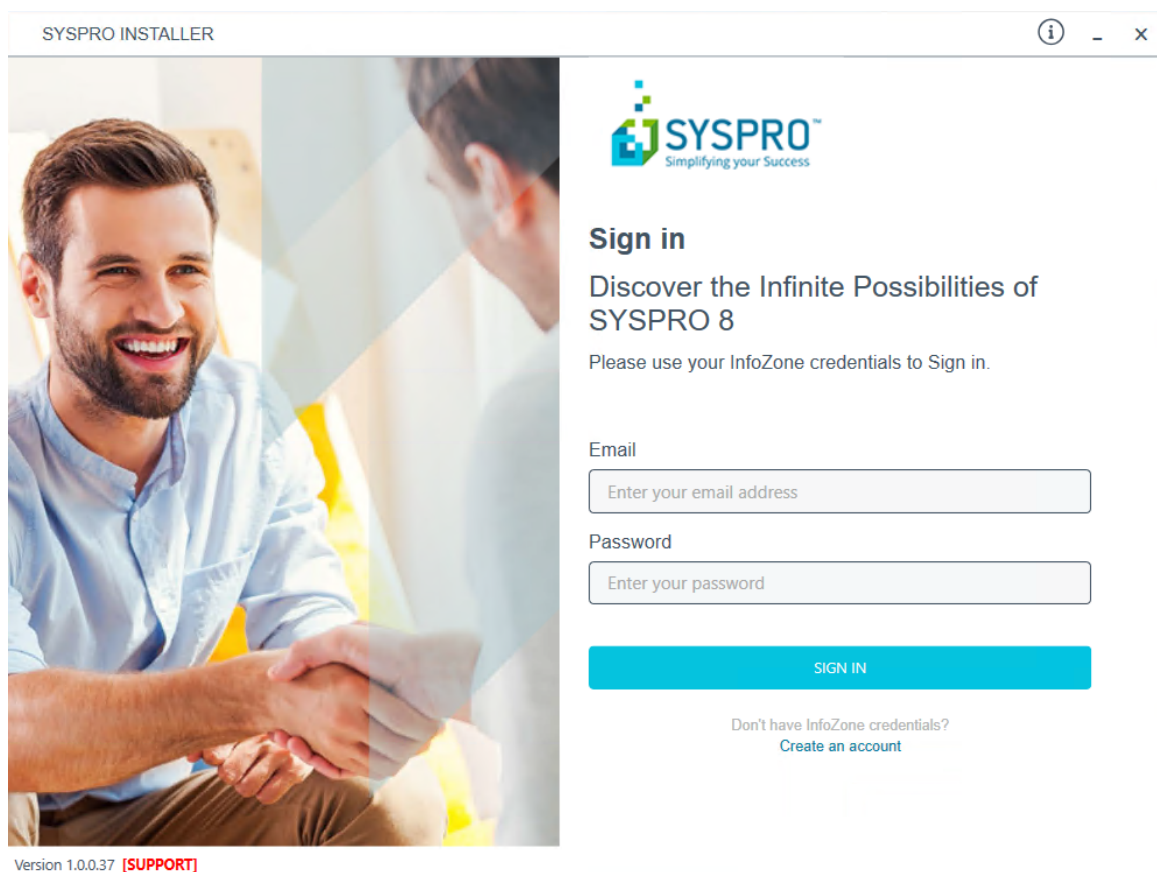
Enter Service Endpoint Address...

2. Click on the pen for the system to populate the endpoint address. Click on **CHECK ENDPOINT**.

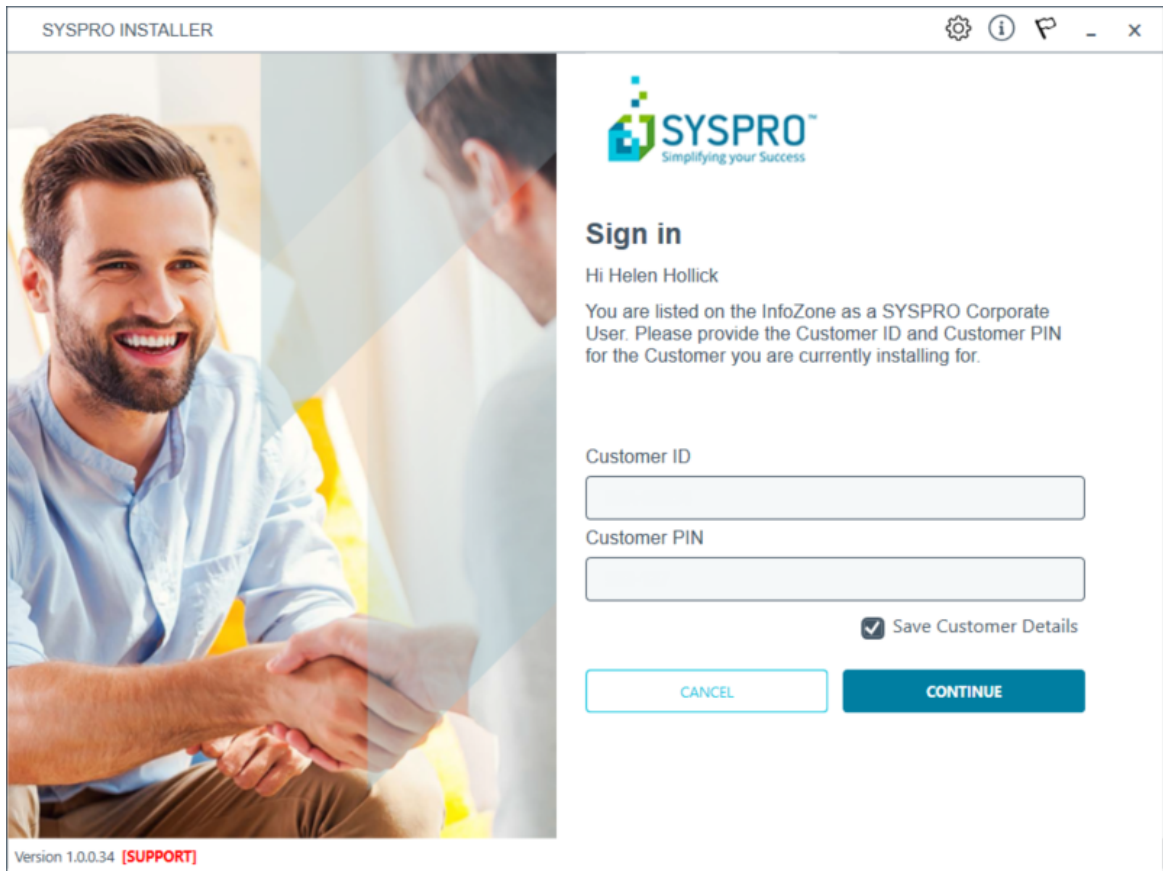
The **SYSPRO Installer Downloading the SYSPRO Deployment Service Install file ...** window is displayed.



3. Once the **Deployment Service** has been installed the **Sign in** window is displayed.



4. Enter your **InfoZone credentials** to sign in. Click **SIGN IN** to progress.  
The next **Sign in** window is displayed.

The image shows a screenshot of the SYSPRO INSTALLER application window. The window has a title bar that says "SYSPRO INSTALLER" and standard window controls (minimize, maximize, close). On the left side of the window is a large image of a smiling man in a light blue shirt. On the right side, there is a "Sign in" section. It includes the SYSPRO logo with the tagline "Simplifying your Success". Below the logo, it says "Sign in" and "Hi Helen Hollick". A message follows: "You are listed on the InfoZone as a SYSPRO Corporate User. Please provide the Customer ID and Customer PIN for the Customer you are currently installing for." There are two input fields: "Customer ID" and "Customer PIN". Below these fields is a checkbox labeled "Save Customer Details" which is checked. At the bottom of the sign-in section are two buttons: "CANCEL" and "CONTINUE". In the bottom left corner of the window, it says "Version 1.0.0.34 [SUPPORT]".

SYSPRO INSTALLER

**SYSPRO**  
Simplifying your Success

**Sign in**

Hi Helen Hollick

You are listed on the InfoZone as a SYSPRO Corporate User. Please provide the Customer ID and Customer PIN for the Customer you are currently installing for.

Customer ID

Customer PIN


☒ Save Customer Details

CANCEL CONTINUE

Version 1.0.0.34 [SUPPORT]

5. The **Customer ID** displayed. Enter the **Customer PIN** and click **CONTINUE**.  
You can find the **Customer PIN** in the **License.xml** file. Select **Save Customer Details** if you don't want to enter the Customer PIN with each log in.  
The **Please configure your environment below** window is displayed.





SYSPRO INSTALLER

Please configure your environment below

SQL Server Name ⓘ

HELENHO

SQL Login ⓘ

SQL Account

SQL Password ⓘ

SQL Password

SYSPRO Deployment Downloads ⓘ

C:\SYSPRO Deployment

CONTINUE

Version 1.0.0.35 **[SUPPORT]**

Helen Hollick | RSA-S8954 SYSPRO CORPORATE SERVICES

- Configure your environment. Click **CONTINUE**.  
The *Install your software* window is installed.



SYSPRO INSTALLER





SYSPRO ERP Software



SYSPRO Additional Software



Administration



Utilities

Version 1.0.0.35 **[SUPPORT]**

Helen Hollick | RSA-S8954 SYSPRO CORPORATE SERVICES



7. Click **SYSPRO ERP Software**.

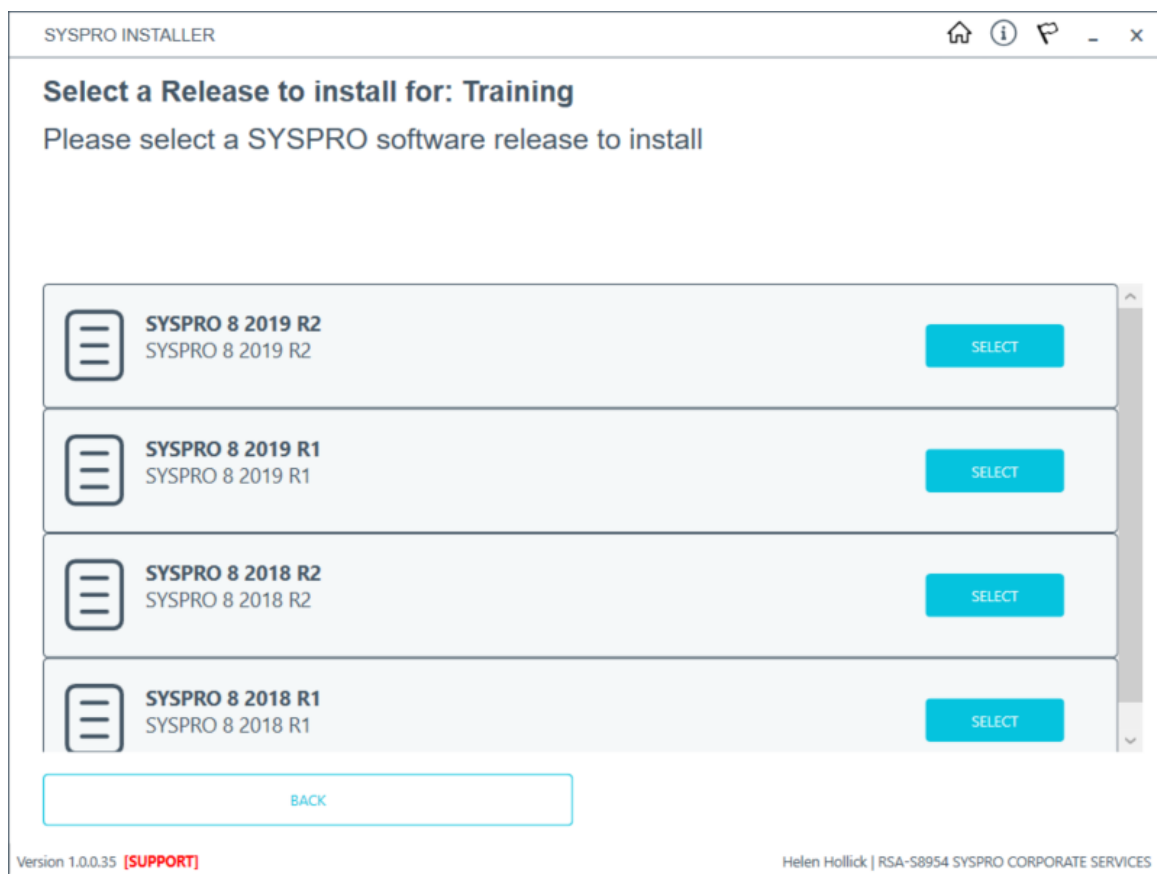
You can select one of the default employment groups or you can add a new one.

The **Deployment group** window is displayed.

The screenshot shows a window titled "SYSPRO INSTALLER" with standard window controls (home, info, print, close). The main heading is "Deployment groups" with the instruction "Please select a Deployment group". In the top right corner, there is a blue button labeled "ADD NEW DEPLOYMENT GROUP". Below this, there are two deployment group entries, each with a list icon, a name, a status, and "EDIT" and "SELECT" buttons. The first entry is "Live Live Deployment Group" with status "Not configured". The second entry is "Test Test Deployment Group" with status "Not configured". At the bottom left, there is a blue button labeled "BACK". The footer contains "Version 1.0.0.35 [SUPPORT]" on the left and "Helen Hollick | RSA-S8954 SYSPRO CORPORATE SERVICES" on the right.

Deployment Group	Status	Actions
Live Live Deployment Group	Not configured	EDIT SELECT
Test Test Deployment Group	Not configured	EDIT SELECT

8. Click on **SELECT** against the **Deployment Group** you want to use.



9. Select the release you want to install and click on **SELECT**.  
You need to select **SYSPRO Avanti Initialization service** as this is a prerequisite for Point of Sale.  
The **Product selection for release** window is displayed.

## Product selection for Release: SYSPRO 8 2019 R2

Please select from available products

☐ **Select All**

☐ SYSPRO 8

☐ SYSPRO 8 Language Pack - French

☐ SYSPRO 8 Language Pack - Chinese

☐ SYSPRO 8 Language Pack - German

☐ SYSPRO 8 Language Pack - Russian

☐ SYSPRO 8 Language Pack - Spanish

☐ SYSPRO 8 Service Upgrade Manager

☐ SYSPRO 8 e.net Communications Load Balancer

☐ SYSPRO 8 Communications Service

BACK

CONTINUE

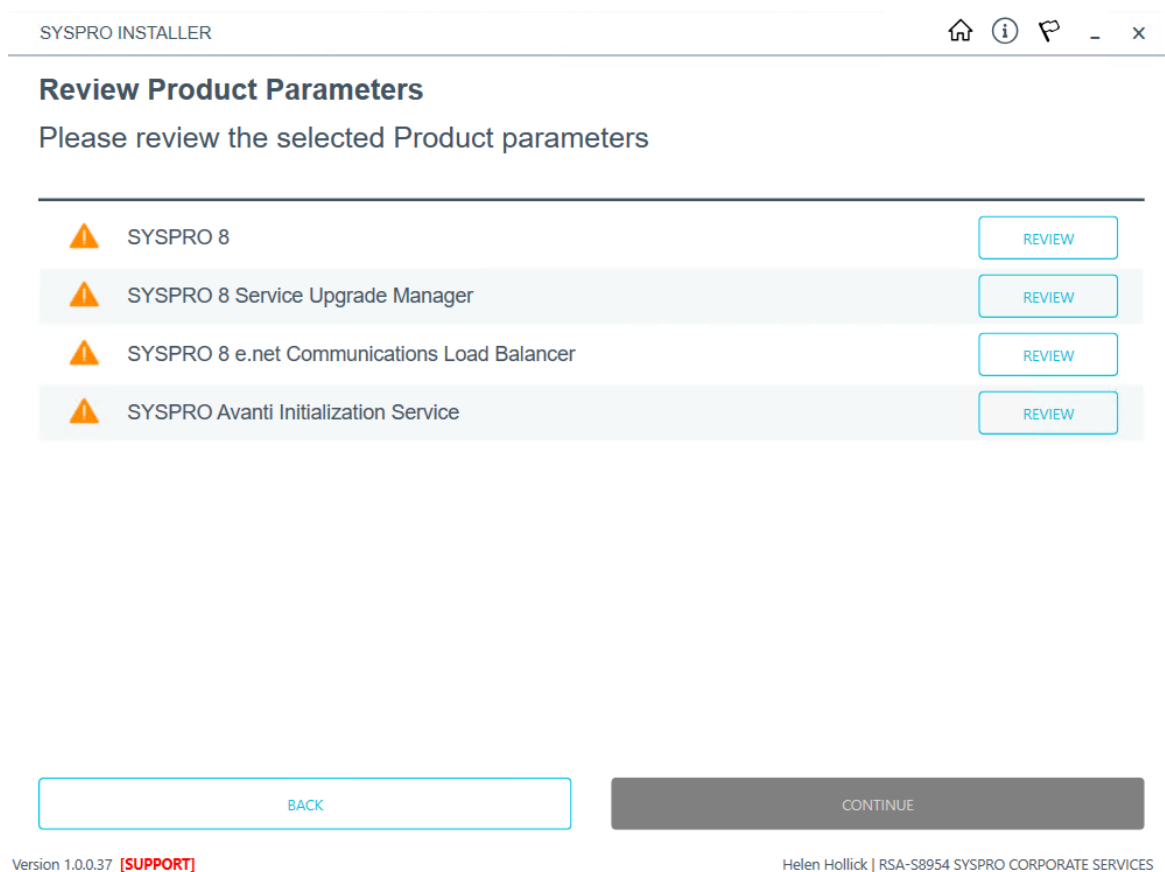
Version 1.0.0.37 [\[SUPPORT\]](#)

Helen Hollick | RSA-S8954 SYSPRO CORPORATE SERVICES

10. Select the products you need to install and click **CONTINUE**.

For purposes of this guide, I have selected SYSPRO 8; SYSPRO 8 Upgrade Manager; and SYSPRO 8 e.net Communications Load Balancer. You will also need to install the SYSPRO Avanti Initialization Service.

The **Review Product Parameters** window is displayed.



11. You need to click on **REVIEW** for each product installed and validate that the information entered is correct.
  - a) Click on **SYSPRO 8**.

The ***SYSPRO.8.Service.msi*** window is displayed.

## SYSPRO.8.Server.msi



☒ Do you want to upgrade the existing installation

Destination Folder

c:\SYSPRO

CANCEL

VALIDATE

- b) Accept the folder where your **SYSPRO 7** is installed. Select **Do you want to upgrade the existing Installation**. Select **VALIDATE**.

The **SYSPRO.8.Service.Upgrade.Manager.exe** window is displayed.



SYSPRO.8.Service.Upgrade.Manager.exe

Enter a port number

30140

☒ Add port to firewall

Destination Folder

C:\Program Files\SYSPRO\SYSPRO 8 Service Upgrade Manager

CANCEL

VALIDATE

c) Accept the defaults and click on **VALIDATE**.

SYSPRO.8.enet.Communications.exe

SYSPRO 8 Application Server Instance

0

Enter a SOAP port number

31001

☒ Add SOAP port to firewall

Enter a REST port number

31002

☒ Add REST port to firewall

Specify the number of load balancing processes

5

☒ Basic http port required

Enter a Basic port number

31003

CANCEL

VALIDATE

- d) Accept the defaults below and select **VALIDATE** to continue,  
The **SYSPRO.Avanti.Initalization.Service.exe** window is displayed.



SYSPRO.Avanti.Initialization.Service.exe

Enter a SOAP port number

30190

☒ Add port to firewall

Destination Folder

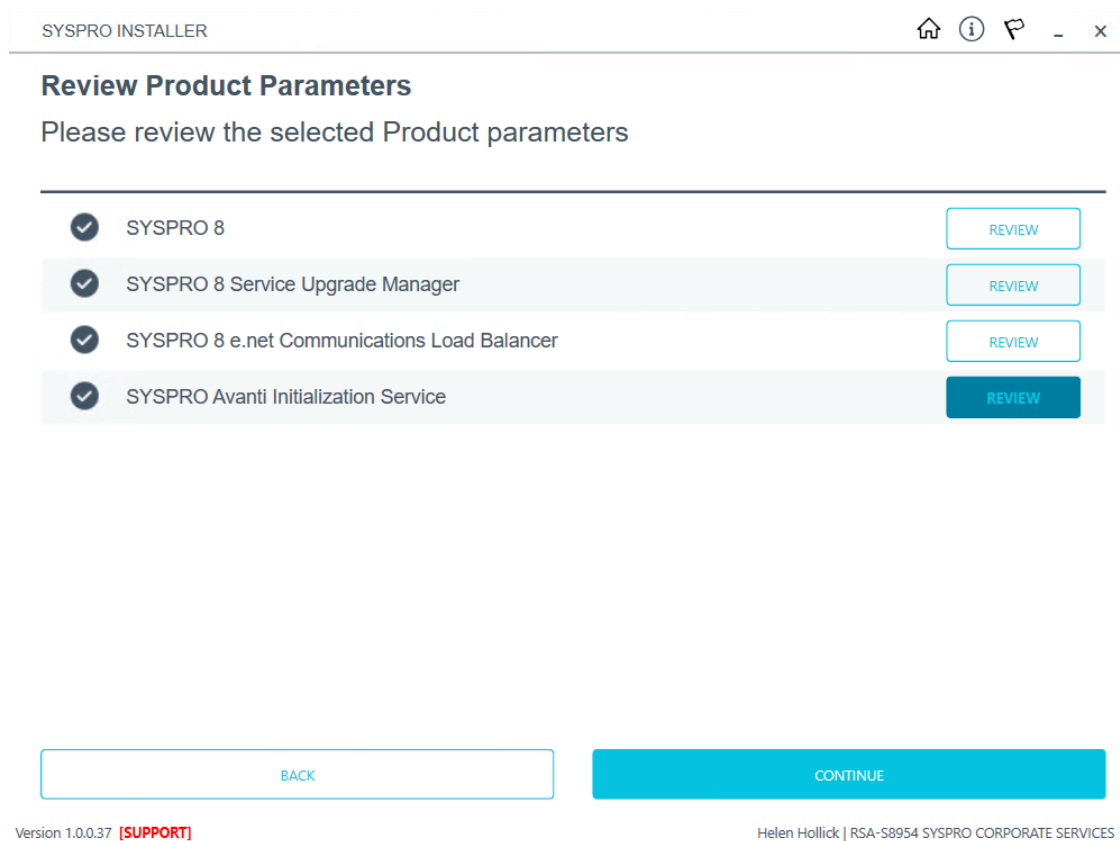
C:\Program Files\SYSPRO\SYSPRO Avanti Initialization Service

CANCEL

VALIDATE

- e) All the products have been reviewed and the software is ready to be installed.  
The **Review Product Parameters** window is displayed,





12. After validating the software you selected to install you will return to the **Review Product Parameter** windows. Validated products will have a tick against them.
13. Click **CONTINUE**.

The ***SYSPRO License Agreement*** window is displayed.

SYSPRO INSTALLER

## SYSPRO License Agreement

By proceeding with this setup program and the installation of the Software you confirm on behalf of the party for whom this Software is being installed ("Licensee") that:

- the Licensee has entered into a Software Licence Agreement with SYSPRO (Proprietary) Limited or one of its regional offices ("Licensor") in terms of which the Licensor has granted the Licensee a personal, non-transferable, non-assignable, non-exclusive and revocable licence to use the Software solely for its internal business purposes and in accordance with the Software Licence Agreement and the documentation and literature (in whatever form or medium) that is made available by the Licensor in respect of the Software ("Documentation");
- if the Software includes computer software products that are owned by other parties ("Third Party Products"), the Licensee shall use such Third Party Products in accordance with the end user licence agreement associated with such Third Party Products;
- the Licensee shall comply with the restriction on the number of Users who may have access to and use any part of the Software at any one time and the Licensee shall be responsible for the acts or omissions of its Users in relation to the Software;
- the Licensee shall not copy the Software in any circumstances except to make a reasonable number of backup copies, which backup copies shall remain under the Licensee's control and shall be clearly marked with the Licensor's proprietary notices;
- the Licensee shall grant to, or procure for, the Licensor or its representatives full access to all sites where, or services by means of which, the Software is deployed, hosted, accessed or used to audit and verify the Licensee's compliance with its obligations under the Software Licence Agreement;
- the Licensee shall timeously pay all licence fees in respect of the Software to the Licensor, including an annual licence fee for the continued use of the Software;

☐ **Accept**

PRINTABLE VERSION

BACK

CONTINUE

Version 1.0.0.36 **[SUPPORT]**

Helen Hollick | RSA-S8954 SYSPRO CORPORATE SERVICES

14. Accept the license agreement and click **CONTINUE**.  
The **Products Ready to Install** window is displayed.

SYSPRO INSTALLER

## Review Product Parameters

Please review the selected Product parameters

<input checked="" type="checkbox"/> SYSPRO 8	REVIEW
<input checked="" type="checkbox"/> SYSPRO 8 Service Upgrade Manager	REVIEW
<input checked="" type="checkbox"/> SYSPRO 8 e.net Communications Load Balancer	REVIEW
<input checked="" type="checkbox"/> SYSPRO Avanti Initialization Service	REVIEW

BACK

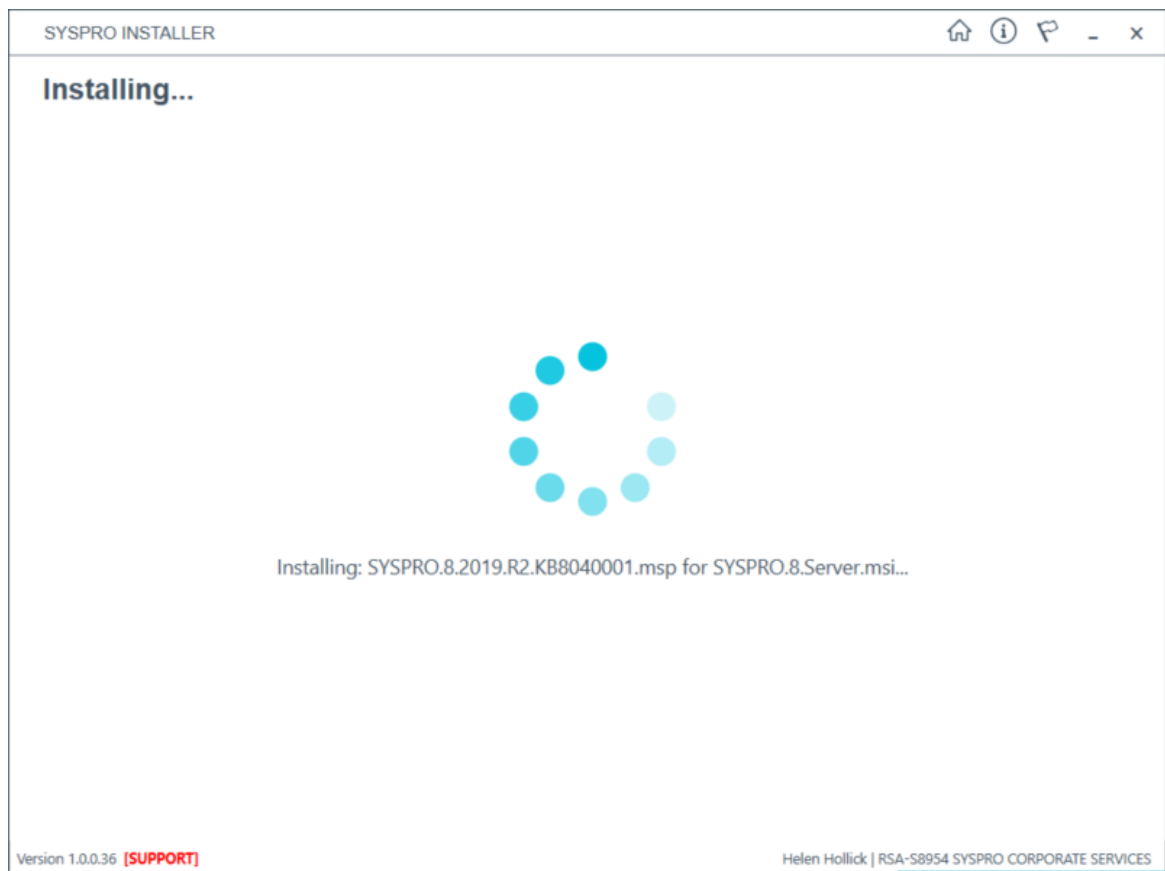
BEGIN INSTALL

Version 1.0.0.37 **[SUPPORT]**

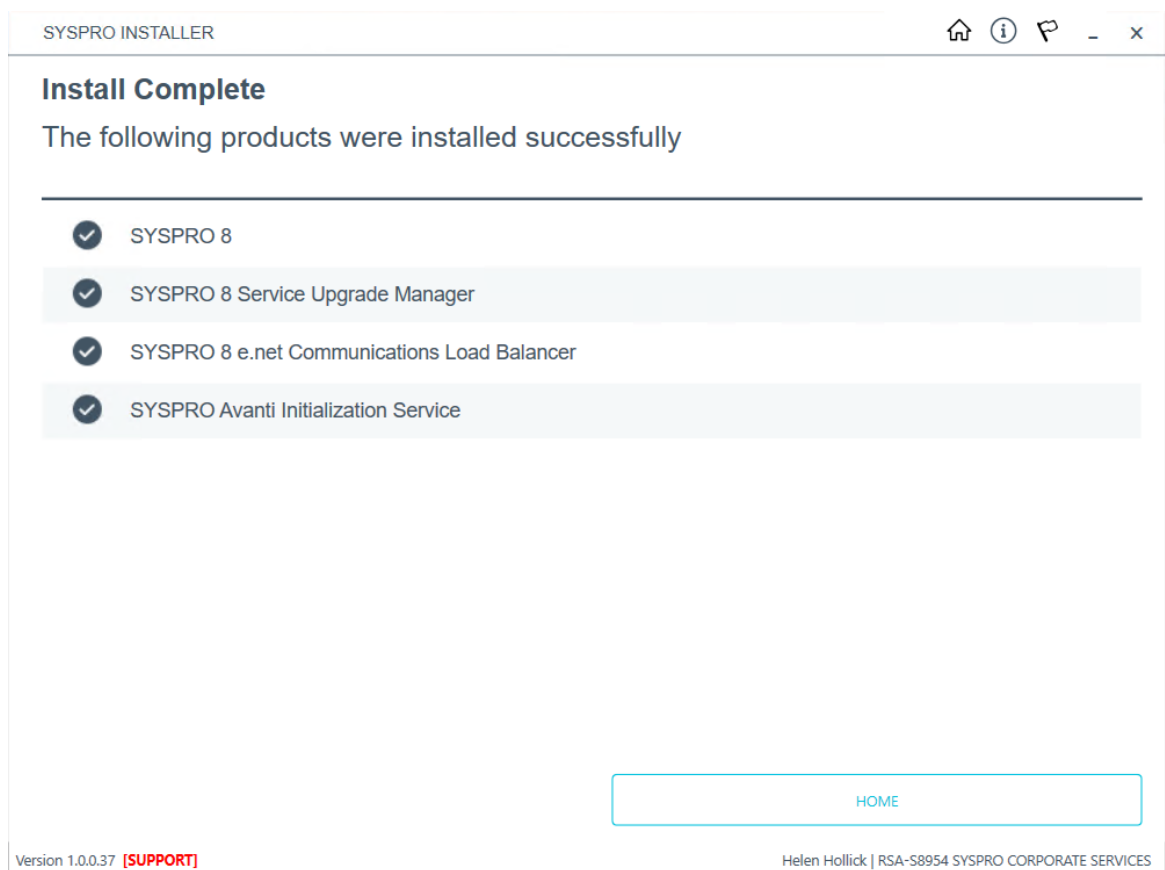
Helen Hollick | RSA-S8954 SYSPRO CORPORATE SERVICES

15. Click on **BEGIN INSTALL**.

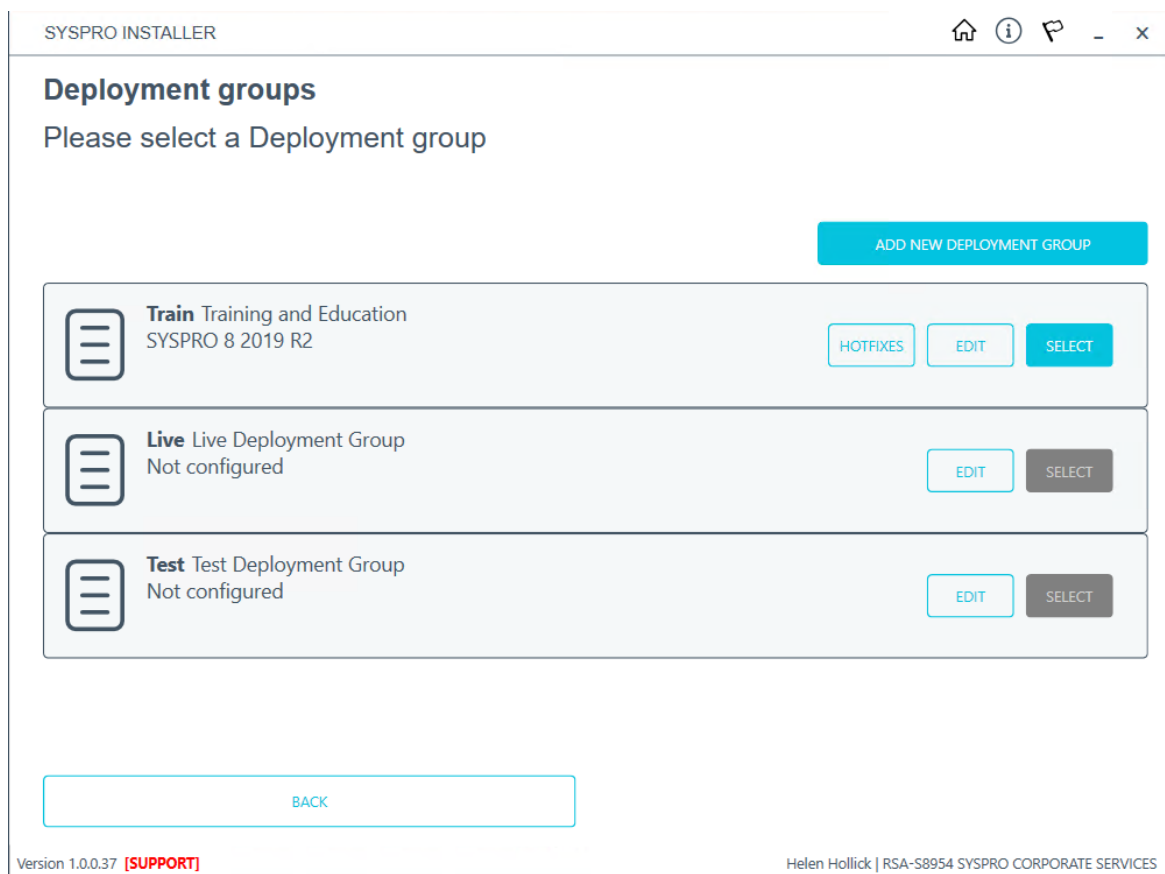
The **Installing ...** window is displayed.



16. Once all the products have been installed you will see the **Install Complete** window displayed.



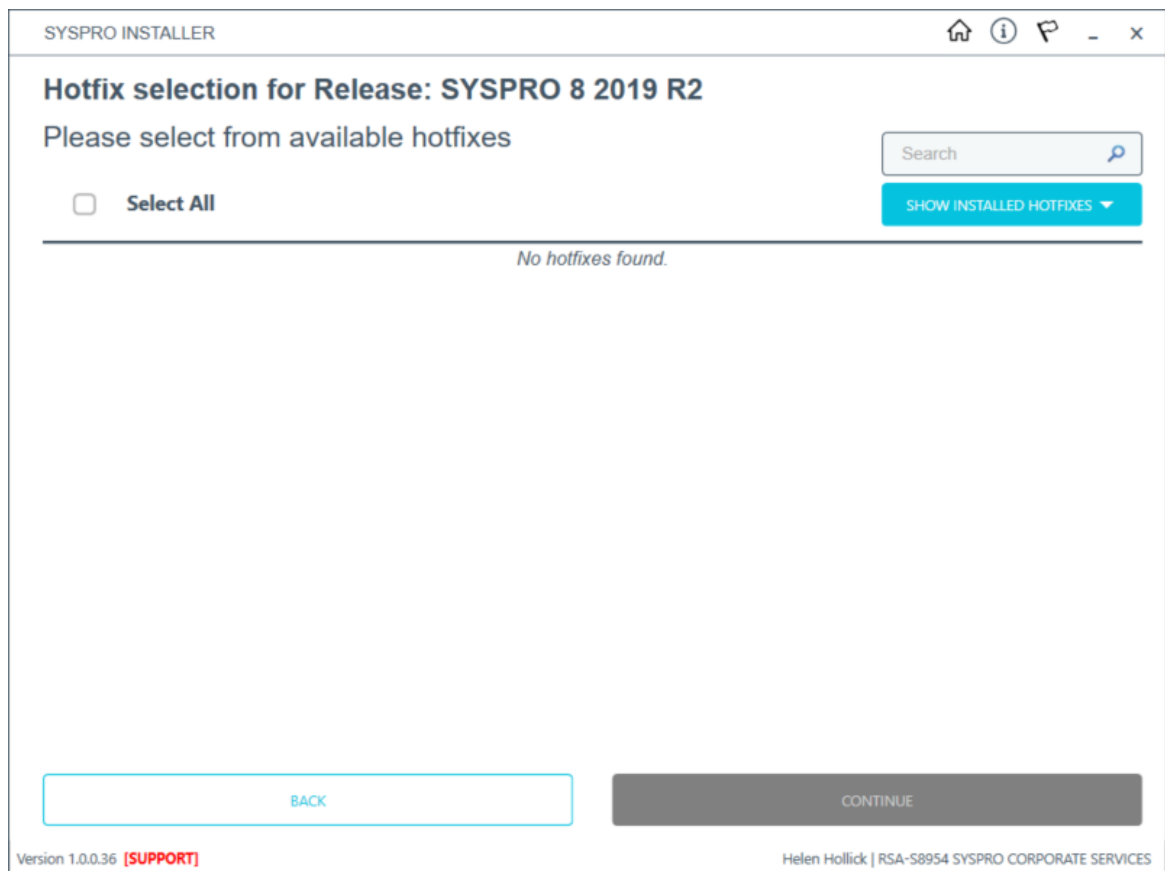
17. Select **HOME**.  
The **Deployment groups** window is displayed.



18. Select **HOTFIXES**.

Selecting **Hotfixes** depends on whether or not you selected to install **Hotfixes** at the same time as the product install.

The **Hotfix selection for release** window is displayed.



19. Once all the Hotfixes have been installed select **BACK**.

This returns you to the Deployment groups window.

20. Select **BACK**.

This returns you to the **SYSPRO ERP Software** window.

21. Exit the program.


## Upgrading SYSPRO 7 Databases

The following steps describe how to upgrade your SYSPRO 7 databases to SYSPRO 8.

1. Launch **SYSPRO 8**.

Ensure that you have backed up all your databases before starting the upgrade.

The **Conversion of Databases to SYSPRO 8 Format** window is displayed.



**Conversion of Databases to SYSPRO 8 Format**

The system has detected that one or more SYSPRO databases require converting to SYSPRO 8 format.

The conversion to SYSPRO 8 will perform the following steps:

- Prompt you for SQL Server connection information  
NOTE - The connection method will depend on your SQL Server setup and the administration login must be a member of the sysadmin fixed server role to make changes to database definitions
- Display the state of all SYSPRO databases  
NOTE - Under the Conversion Options you have the options whether to convert Audit and Archive data. However, it is important to note that Archive data will not be available in SYSPRO 8 until it has been converted, and that the Audit data cannot be converted later.
- Convert all system ISAM files and insert these as tables into the system database
- Convert each company's ISAM files and insert these as tables into the relevant database
- Apply any other changes that are required for SYSPRO 8

This wizard will guide you through the conversion process.

< Back   **Next >**   Cancel

2. Select **Next >** to continue.

The **Conversion of Databases to SYSPRO 8 Format** window is displayed.

**Conversion of Databases to SYSPRO 8 Format**

SQL Connection Information

Server name:

Authentication Method

☒ SQL Server   ☐ Windows

Administration SQL user

User name:

Password:

Standard SQL user

User name:

Password:

Bulk Insert Information

Code page:

Temp folder:

Show passwords

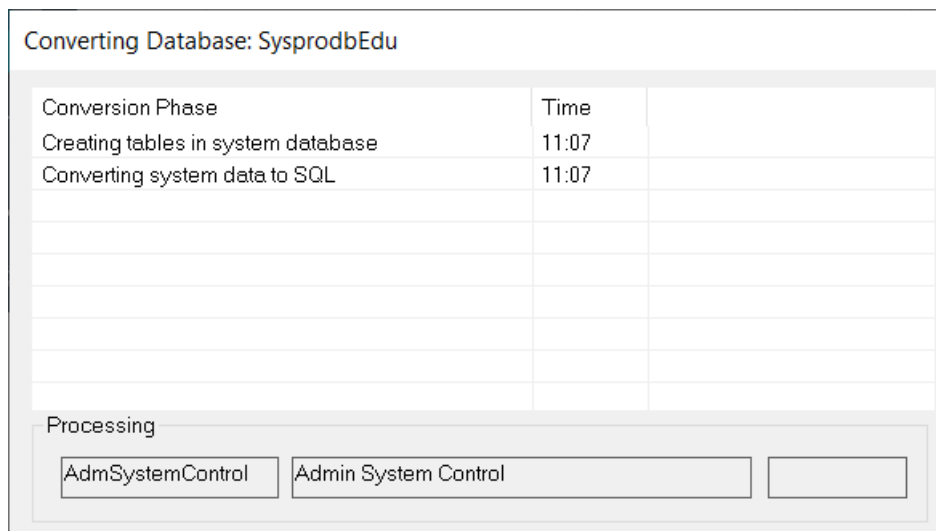
< Back   **Next >**   Cancel

3. Enter the required information and select **Next >**.

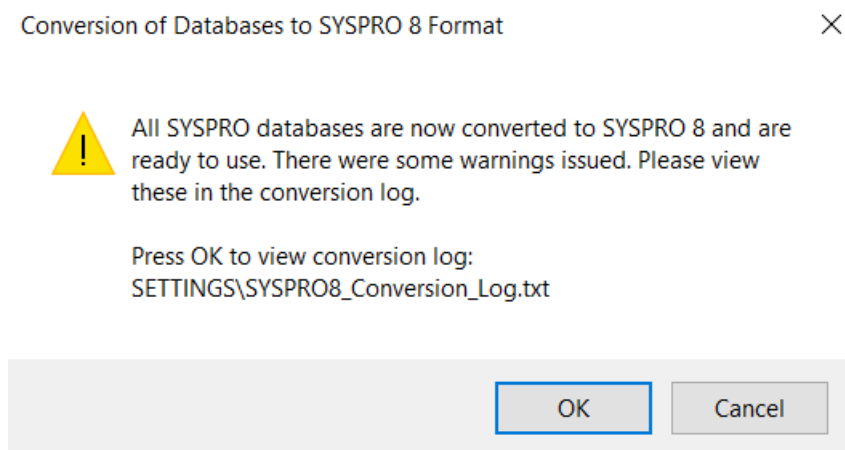
The **Connect to SQL Server** window is displayed.

4. Select **Connect** to test that the details are correct. If the details are correct the program will return to the **Conversion of Databases to SYSPRO 8 Format** window.
5. Click **Next >** to continue.

6. Select **Next>** to continue.



7. Once the install is complete you will see the window below



8. Select OK to complete the install.

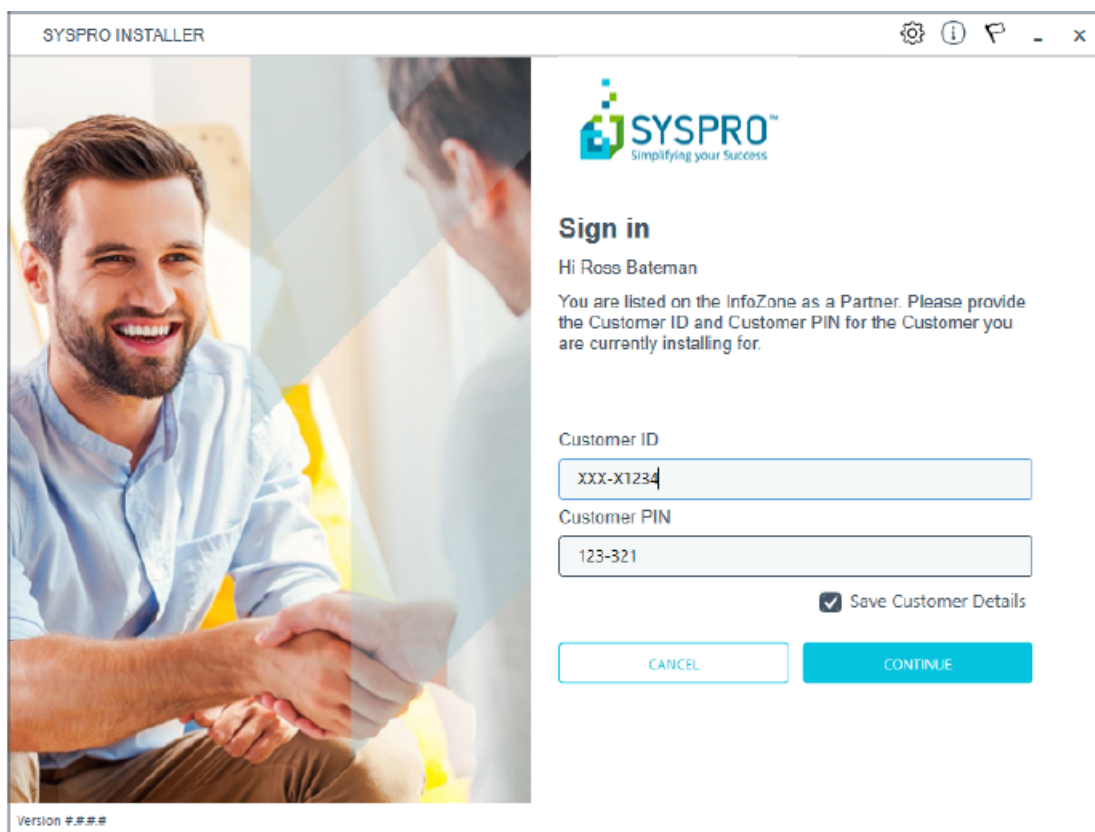


# How to install SYSPRO Point of Sale

The following steps describe how to download the SYSPRO Point of Sale installation autorun files.

1. Run the SYSPRO Installer exe from the **SYSPRO Deployment folder**.

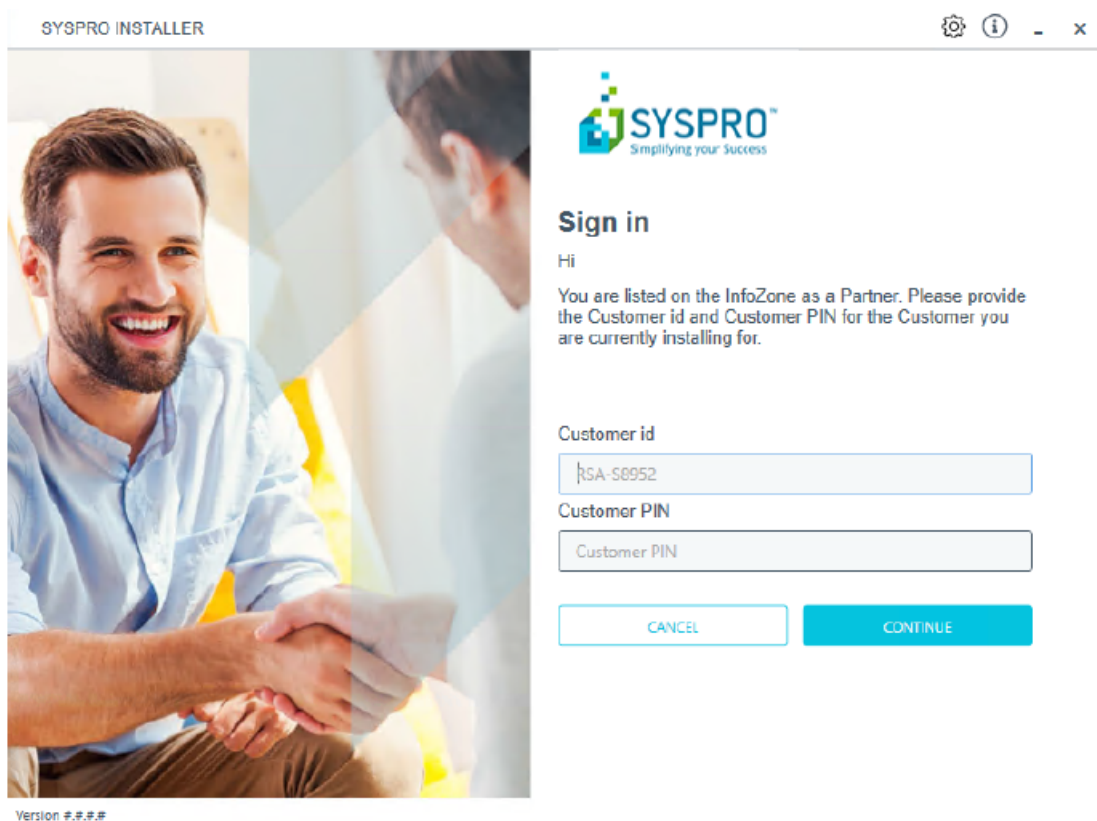
The **Login** window is displayed.



2. Once a connection is made to the SYSPRO Deployment Service, you need to login using your InfoZone credentials. A valid InfoZone account is required to continue.

Enable the **Save Customer Details** checkbox option if you want the app to save your **Customer Code** and **Customer PIN** when logging in.

If you are not listed as a customer on the InfoZone (i.e. you are a Partner or Super-user) an additional screen is displayed for you to enter the relevant customer code for the customer you want to install.



The Customer ID defaults to the customer code defined within your InfoZone profile, and must match the SYSPRO account you are installing.

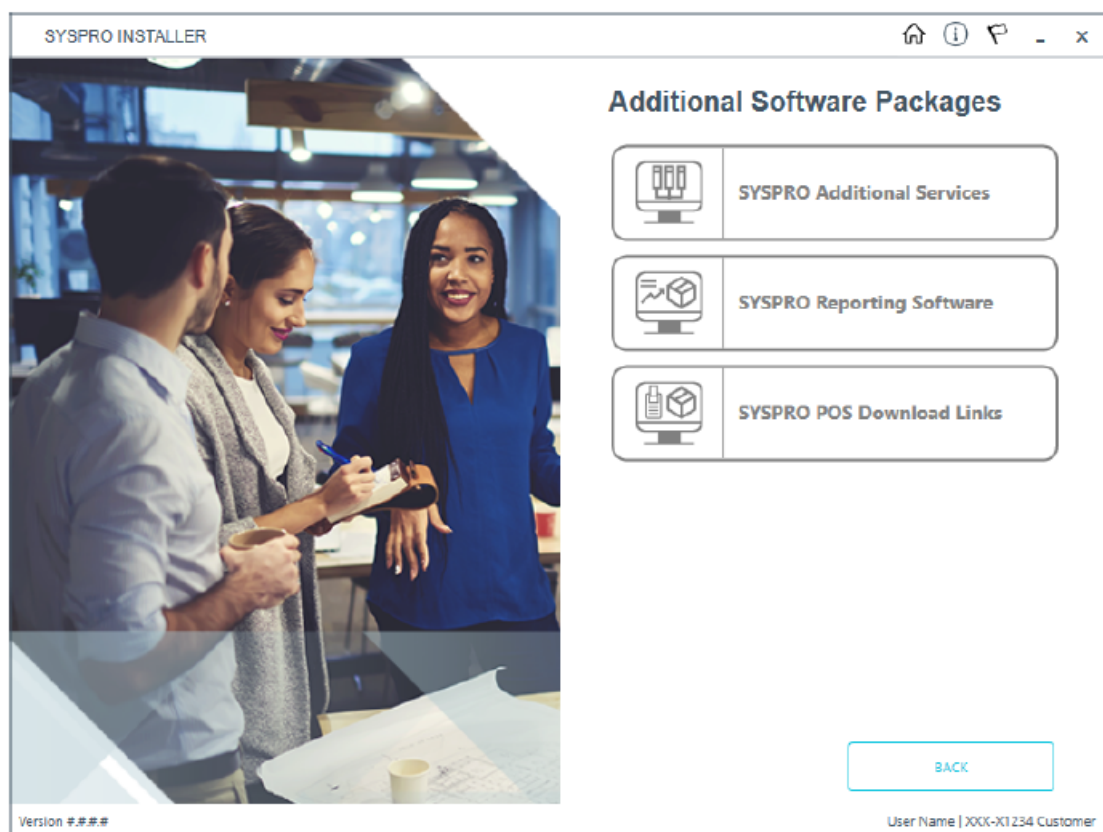
The Customer PIN is the 6-digit code included in the email you received that contained your SYSPRO 8 license.

You can verify your customer ID and PIN against the **CustomerId** and **CustomerPin** elements of the license XML file.

3. Select **CONTINUE**.



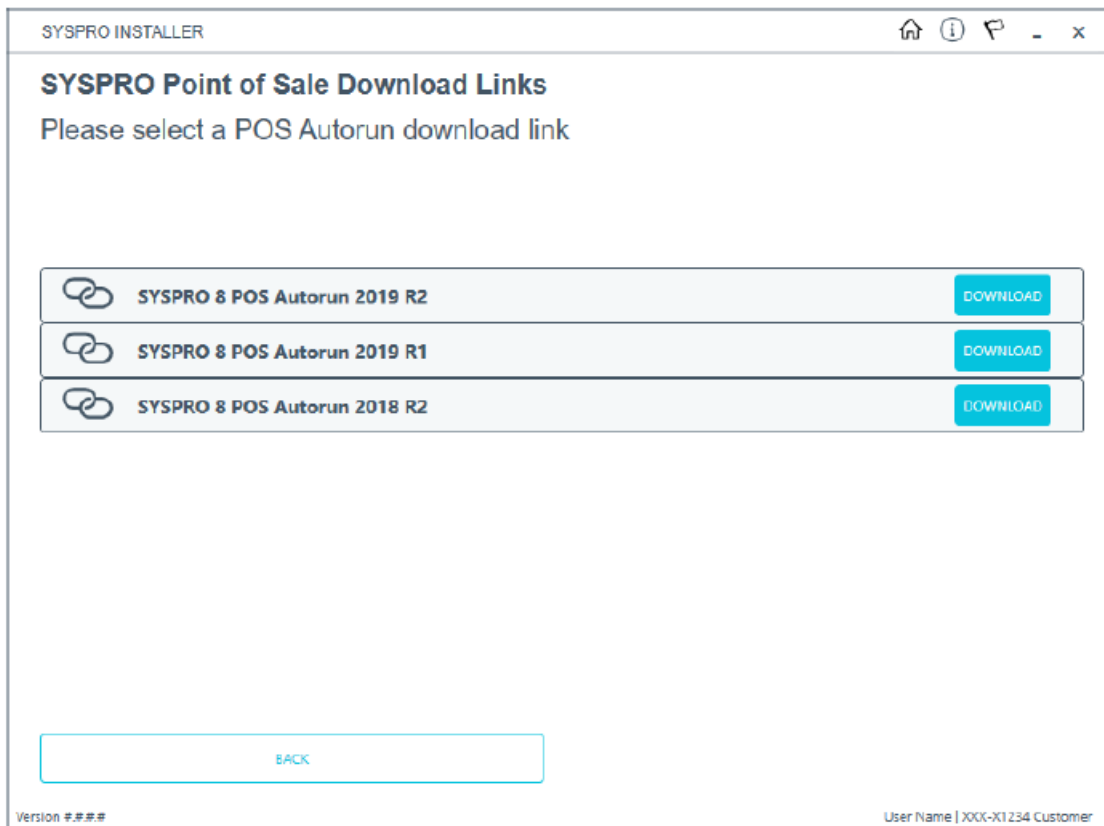
4. From the SYSPRO Installer home screen select **SYSPRO Additional Software**.  
The ***SYSPRO Additional Packages*** window is displayed.



The **Additional Software Packages** screen provides you with a list of additional software available to install from the SYSPRO Installer application.

5. Select **SYSPRO POS Download Links**.

The **SYSPRO Point of Sale Download** link window is displayed.

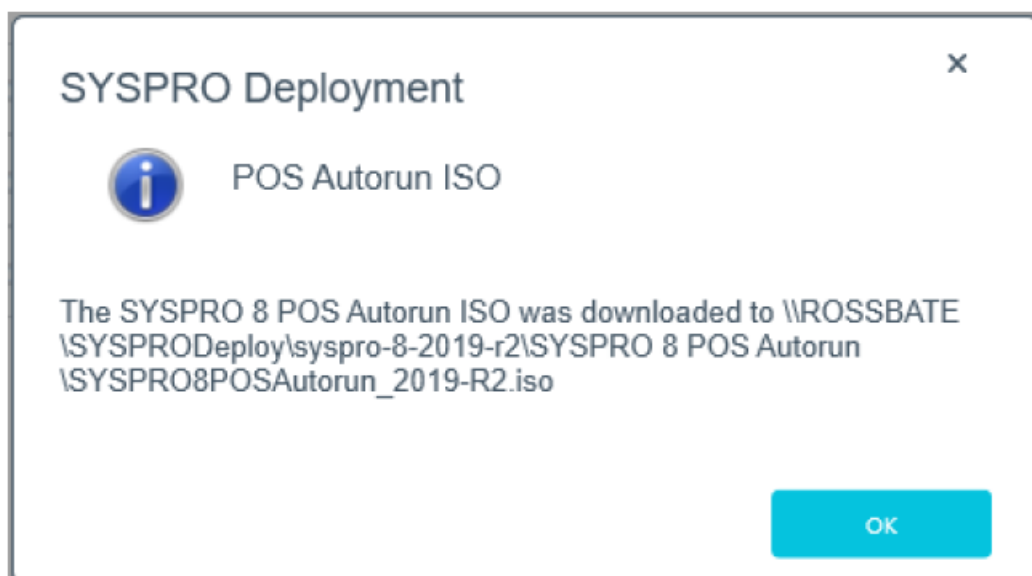


The installation files are stored on the **Deployment Share** in the syspro-additional-software folder.

6. Select the **Download** button from the applicable version that you want to install.

The application then downloads the **Autorun ISO** to your local **Deployment Share** folder.

7. Once the download has completed, a message is displayed confirming the folder location.





8. Select **OK**.

# Components installed

The following components are included:

## Online Installation

Component	2019 R2	2019 R1	2018 R2
Microsoft .NET Framework 4.5	✓	✓	✓
SYSPRO 8 Avanti Initialization Service	✓		
SYSPRO 8 Point of Sale e.net Communication Service	✓	✓	✓
SYSPRO Point of Sale Online	✓	✓	✓
SYSPRO 8 Point of Sale Services	✓	✓	✓

## Offline Installation

Component	2019 R2	2019 R1	2018 R2
Microsoft .NET Framework 4.5	✓	✓	✓
SYSPRO 8 Runtime	✓	✓	
SYSPRO 8 Avanti Initialization Service	✓		
SYSPRO 8 Point of Sale Offline Foundation	✓	✓	✓
SYSPRO 8 Point of Sale e.net Communication Service	✓	✓	✓
SYSPRO 8 Point of Sale	✓	✓	✓
SYSPRO 8 Point of Sale Services	✓	✓	✓

# Preparing for SYSPRO 8 Point of Sale

## Services

The following services, which are installed and used both on the Head Office (Online) Server and Branch (Offline) Servers, and are critical to both the Online and Offline installations of SYSPRO Point of Sale.

- **SYSPRO Avanti Initialization Service**

This **Windows** service is responsible for starting the **SYSPRO.exe** process on the SYSPRO Application Server, together with a number of other SYSPRO-specific functions such as accessing the file system on the application server and controlling authentication when logging into SYSPRO.

- **SYSPRO 8 Point of Sale e.net Communications Service**

Based on **Windows Communication Foundation**, this service exposes the **SYSPRO64.DLL** library to internal and external applications that need to interact with SYSPRO (e.g. SYSPRO Espresso, Predictive Search, third party developer applications, etc). Data is retrieved from the SYSPRO database using the open e.net architecture, without compromising data integrity.

This service replaces the **SYSPRO e.net WCF Service** (originally developed to replace SYSPRO Web Services and DCOM) and provides for load balancing functionality as well as being fault tolerant (e.g. if a channel fails, a new thread is initiated automatically to prevent the whole service from failing).

- **SYSPRO 8 Point of Sale Services**

This service lets you synchronize master data, copy transactional data from offline branches to the main server and post transactional data that was copied from offline branches.

It comprises the following services:

- **SYSPRO 8 Point of Sale Synchronize Service (mandatory)**

This is installed in both Online and Offline environments and is used to synchronize master data (i.e. it self-heals PoS Web Site components).

- **SYSPRO 8 Point of Sale Copy Service (optional)**

This copies transactional data from Offline branches to the Main Server.

- **SYSPRO 8 Point of Sale Posting Service (optional)**

This posts the transactional data that was copied from Offline branches.

## Syncing SYSPRO files

Depending on the **UpdatedInterval**, the SYSPRO file syncing will execute and retrieve the latest SYSPRO files from the Main Server and proceed to copy it to the branch.

The files that are copied are depended on the results returned by the POSQRY business object. The branch will check POSQRY and gather all the file details that are currently in the directories contained in the branch SYSPRO installation; this includes:

- Filenames
- Create data
- Modified date

This list is sent to the **Sync Web Service**. The list of files received from the web service is then compared to the files on the main server. Files which do not match create and modified dates are added to a zip file which will then be streamed down to the windows service. These files will be extracted and used to update the branch's SYSPRO.



The IMPACT.INI file will not be copied down, instead a copy is made and renamed to IMPACT\_POS.INI and copied down to the branch.

## SYSPRO 8 Avanti Initialization Service

This **Windows** service is responsible for starting the **SYSPRO.exe** process on the SYSPRO Application Server, together with a number of other SYSPRO-specific functions such as accessing the file system on the application server and controlling authentication when logging into SYSPRO.

This service is used by: **SYSPRO Avanti**

The default location for this service is: **Program Files > SYSPRO > SYSPRO Avanti Unitization Service**.

### Pre-requisites

- Microsoft .NET Framework 4.6
- SYSPRO 8 Service Upgrade Manager
- SYSPRO 8 e.net Communications Load Balancer (valid endpoint configured in System Setup)

### Installation Considerations

This service is installed using the SYSPRO Installer as well as the Point of Sale Installer.



**Note:** This service must be installed on the same application as the SYSPRO 8 Server.

### Debugging and Diagnostics

#### Service Config.exe file

You can debug this service by editing the associated **config** file in elevated mode (i.e. with administrator privileges). The **SYSPROInitializationHostService.exe.config** file is located in the folder to which you installed the service.

#### Windows Event Viewer function

You can view monitoring and troubleshooting messages about this service using the **Event Viewer** function in Windows:

**(Control Panel > System and Security Administrative Tools > Event Viewer > Applications and Service Logs)**

This service outputs an event log to the **SYSPROAIS** file.

#### Windows Services function

You can start, stop, restart and configure this service using the **Services** function in Windows.

**(Control Panel > System and Security Administrative Tools > Services).**

## SYSPRO 8 e.net Communication Load Balancer

Based on **Windows Communication Foundation**, this service exposes the **SYSPRO64.DLL** library to internal and external applications that need to interact with SYSPRO (e.g. SYSPRO Espresso, Predictive Search, third party developer applications, etc). Data is retrieved from the SYSPRO database using the open e.net architecture, without compromising data integrity.

This service replaces the **SYSPRO e.net WCF Service** (originally developed to replace SYSPRO Web Services and DCOM) and provides for load balancing functionality as well as being fault tolerant (e.g. if a channel fails, a new thread is initiated automatically to prevent the whole service from failing).

This service is used by SYSPRO 8 and any external or third party e.net application accessing SYSPRO data although you can continue running the older **SYSPRO e.net WCF Service** alongside the new **SYSPRO 8 Communications Service**, you will have to configure a different communication port.



This service is used by:

- SYSPRO 8
- SYSPRO Avanti
- SYSPRO Server-side Reporting
- SYSPRO Web-based Product Configurator
- Executive Dashboard SYSPRO Workflow Services
- SYSPRO e.net Diagnostics
- SYSPRO Point of Sale
- SYSPRO Harmony
- SYSPRO Espresso
- SYSPRO Machine Learning

Any external or third party e.net application accessing SYSPRO data

The default location for this server is:

**Program Files > SYSPRO > SYSPRO 8 e.net Communications Load Balancer**

### Prerequisites

- Microsoft .NET Framework 4.6
- SYSPRO 8 Server

### Installation Considerations

This service is installed using the SYSPRO Installer.



**Note:** This service must be installed on the same application as the SYSPRO 8 Server.

### Debugging and Diagnostics

#### Service Config.exe file

You can debug this service by editing the associated **config** file in elevated mode (i.e. with administrator privileges). The **SYSPRO.8.enet.communications.exe.config** file is located in the folder to which you installed the service.

#### Windows Event Viewer function

You can view monitoring and troubleshooting messages about this service using the **Event Viewer** function in Windows:

**(Control Panel > System and Security Administrative Tools > Event Viewer > Applications and Service Logs)**

This service outputs an event log to the **SYSPROAECS** file.

#### Windows Services function

You can start, stop, restart and configure this service using the **Services** function in Windows.

**(Control Panel > System and Security Administrative Tools > Services).**


### Referencing

#### Configuration file



**Note:** You should only edit this file for debugging purposes. Don't use this as a method to update values for the service. This is because a wizard installation updates the system registry, which is what is read when using the service. A fresh installation overwrites these values, which may cause problems when you next run the service.



Key	Description
baseaddress	This is the template base address at which all endpoints are hosted.
portNetTcp	This is the port at which the net.tcp binding is hosted.
portBasicHttp	This is the port at which the basic binding is hosted.
portWsHttp	This is the port at which the WS binding is hosted.
portRestHttp	This is the port at which the REST binding is hosted.
portNetPipe	This is the name of the named pipe endpoint.
InstanceContextMode	This value indicates when new service objects are created. It specifies the number of service instances available for handling calls that are contained in incoming messages.
ConcurrencyMode	This indicates whether a service supports one thread, multiple threads, or re-entrant calls. It specifies whether a service class supports single-threaded or multi-threaded modes of operation.
AddressFilterMode	This is used by the dispatcher to route incoming messages to the correct endpoint. It specifies the type of match semantics used by the dispatcher to route incoming messages to the correct endpoint.
backhaulPingTimeout	
workerPingTimeout	This is an integer specifying milliseconds. This controls locked worker detection. The value specifies how long to wait for a response from the SYSPRO runtime. If a ping response exceeds this time, the worker is considered locked and marked for termination.
workerPingInterval	<p>This is an integer that lets the supervisor test the worker every x calls and determine if the worker is healthy on every pool re-balance.</p> <ul style="list-style-type: none"><li>• Zero value = detection only on pool re-balance.</li><li>• Greater than Zero value = detection on every x calls.</li><li>• Lower values -&gt; Greater reliability. Higher values -&gt; Higher performance.</li></ul>
minWorkers	This is an integer that specifies the minimum number of worker processes. Zero workers will cause all calls to execute internally, with no redundancy.
schedulerInterval	<p>This is an integer specifying seconds that specifies how often the scheduler checks the recycling thresholds. Recycling is a cooperative process, and workers will only be recycled when they fault or have no jobs in progress.</p> <p> <b>Note:</b> Setting this too low will reduce performance.</p>
schedulingAlgorithm	<p>This determines how the scheduler chooses a worker.</p> <ul style="list-style-type: none"><li>• <b>RoundRobin</b> - a worker is chosen in round-robin fashion. This is better for high workloads with mostly short-lived transactions.</li><li>• <b>BalancedWorkload</b> - a worker is chosen according to the jobs in progress, where the worker with the fewest jobs is considered most favorable. This is better for low workloads with mostly long-lived transactions.</li></ul>
recyclingTimes	This is a comma separated list (hh:mm) and defines fixed times at which workers are recycled.
recyclingInterval	This is a single value (hh:mm) and defines a fixed interval at which workers are recycled.
recyclingRequests	This is an integer that recycles a worker after it has served a certain number of requests.
recyclingPagedMemory, recyclingVirtualMemory, recyclingWorkingSet	This recycles a worker if the memory usage goes over this threshold (n{B KB MB GB}) Although all these settings are available, only the working set value is close to what Windows exposes in the Task Manager. The other values may be useful in certain cases, but are harder to monitor.
recyclingWatchFolders	This is a pipe-delimited list of folders that recycles workers when a folder is modified.

## Point of Sale Services

This service lets you synchronize master data, copy transactional data from offline branches to the main server and post transactional data that was copied from offline branches.

It comprises the following services:

- **SYSPRO 8 Point of Sale Synchronize Service (mandatory)**

This is installed in both Online and Offline environments and is used to synchronize master data (i.e. it self-heals POS Web Site components).

- **SYSPRO 8 Point of Sale Copy Service (optional)**

This copies transactional data from Offline branches to the Main Server.

- **SYSPRO 8 Point of Sale Posting Service (optional)**

This posts the transactional data that was copied from Offline branches.

This service is used by: SYSPRO Point of Sale.

### Installation Considerations

You install this service using the SYSPRO 8 Point of Sale autorun (available at [https://syspro8install.azureedge.net/iso/SYSPRO8POSAutorun\\_year\\_release.iso](https://syspro8install.azureedge.net/iso/SYSPRO8POSAutorun_year_release.iso)).

For example: [https://syspro8install.azureedge.net/iso/SYSPRO8POSAutorun\\_2019\\_R2.iso](https://syspro8install.azureedge.net/iso/SYSPRO8POSAutorun_2019_R2.iso).

During the installation you will be required to configure settings for the service.

### Debugging and Diagnostics: Service Config.exe.file

You can debug this service by editing the associated config file in elevated mode (i.e. with administrator privileges).

The files are located in the folder to which you installed the service.

### Debugging and Diagnostics: Windows Event Viewer function

You can view monitoring and troubleshooting messages about this service using the Event Viewer function in Windows:

**(Control Panel > System and Security Administrative Tools > Event Viewer > Applications and Service Logs)**

### Debugging and Diagnostics: Windows Services function

You can start, stop, restart and configure this service using the Services function in Windows:

**(Control Panel > System and Security Administrative Tools > Services)**

### Referencing: Configuration file



**Note:** You should only edit this file for debugging purposes. Don't use this as a method to update values for the service. This is because a wizard installation updates the system registry, which is what is read when using the service. A fresh installation overwrites these values, which may cause problems when you next run the service.

### SYSPROServerSyncService.exe.config

Application settings	Description
UpdateTime	21:00
UpdateInterval	86400000

Application settings	Description
EnableDebuggingToLog	True/False
DebugLog	C:\Program Files (x86)\SYSPRO\SYSPRO 8 Point of Sale Services\DebugLog.txt
InstanceId	This indicates the default instance of SYSPRO with which the service will communicate. SYSPRO instances are reflected in your Windows Registry to identify the \Base folder of your SYSPRO install where the necessary .dll and .exe files are located.
BaseLoadBalancerAddress	This is the TCP-based network protocol (net.tcp://) that points to your SYSPRO 8 e.net Communications Load Balancer installation.
CompanyCode	This is the SYSPRO Company Directory
InstallDir	This is the directory that you installed the software.
IsOnline	True/False.
PosUrl	/SYSPRO8POS_/

### SysproPosCopyService.exe.config

Application settings	Description
BaseLoadBalancerAddress	This is the TCP-based network protocol (net.tcp://) that points to your SYSPRO 8 e.net Communications Load Balancer installation.
InstanceId	This indicates the default instance of SYSPRO with which the service will communicate. SYSPRO instances are reflected in your Windows Registry to identify the \Base folder of your SYSPRO install where the necessary .dll and .exe files are located.

### SYSPROPosPostService.exe.config

Field	Description
LogTracingDetailToApplication Log	True/False.
LogTracingDetailToTextFile	True/False. C:\Program Files(x86)\SYSPRO\SYSPRO 8 Point of Sale Services\TracingLog.txt
TransactionPostingInterval	10000
EndOfDayPostingInterval	600000
InvoiceAndPaymentBatch PostingInterval	120000
BaseLoadBalancerAddress	This is the TCP-based network protocol (net.tcp://) that points to your SYSPRO 8 e.net Communications Load Balancer installation.
InstanceId	This indicates the default instance of SYSPRO with which the service will communicate. SYSPRO instances are reflected in your Windows Registry to identify the \Base folder of your SYSPRO install where the necessary .dll and .exe files are located.

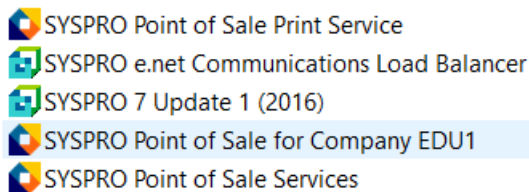
# Installing Point of Sale Online

## Uninstalling SYSPRO 7 Point of Sale Services

The following steps describe how to uninstall the Point of Sale Services.

1. Navigate to **Uninstall a program**.

Name

- 
- SYSPRO Point of Sale Print Service
  - SYSPRO e.net Communications Load Balancer
  - SYSPRO 7 Update 1 (2016)
  - SYSPRO Point of Sale for Company EDU1
  - SYSPRO Point of Sale Services

2. Right click on **SYSPRO Point of Sale Print Service** and select **Uninstall**.
3. Right click on **SYSPRO Point of Sale Print Service**. and select **Uninstall**.

## Installing SYSPRO Point of Sale

The following steps describe how to install SYSPRO Point of Sale at the main site, online.

You need to have installed:

- Microsoft .NET Framework 4.5
  - SYSPRO 8 e.net Communications Load Balancer
  - SYSPRO 8 2019 R2 or higher
  - SYSPRO Avanti Initialization Service
1. Run the **SYSPRO Point of Sale** autorun.exe program.

The **Welcome, Select an installation type** window is displayed.



## Welcome, Select an installation type:

- ☐ Online Installation
- ☐ Offline Installation

[www.syspro.com](http://www.syspro.com)

Copyright © 1994 – 2019 SYSPRO (Pty) Ltd. All rights reserved.  
All brand and product names are trademarks or registered trademarks of their respective holders.

Version 8.03.0002

### 2. Select **Online Installation**.

The ***SYSPRO 8 Point of Sale Online*** window is displayed.



## SYSPRO 8 Point of Sale Online


[Home](#) ▶ [Online](#)

Installed	<input checked="" type="checkbox"/>	Microsoft .NET Framework 4.5
Installed	<input checked="" type="checkbox"/>	SYSPRO Avanti Initialization Service
Installed	<input checked="" type="checkbox"/>	SYSPRO 8 Point of Sale e.net Communications Service
Pending	<input checked="" type="checkbox"/>	SYSPRO 8 Point of Sale Online
Pending	<input checked="" type="checkbox"/>	SYSPRO 8 Point of Sale Services

Install

[www.syspro.com](http://www.syspro.com)

Copyright © 1994 – 2019 SYSPRO (Pty) Ltd. All rights reserved.  
All brand and product names are trademarks or registered trademarks of their respective holders.

-  **Note:** Components that need to be installed will have an install status of **Pending**. If all of the components have been installed previously - the **Installed** status will display and you will have the option to install another instance of **Point of Sale** for a different **SYSPRO company**.

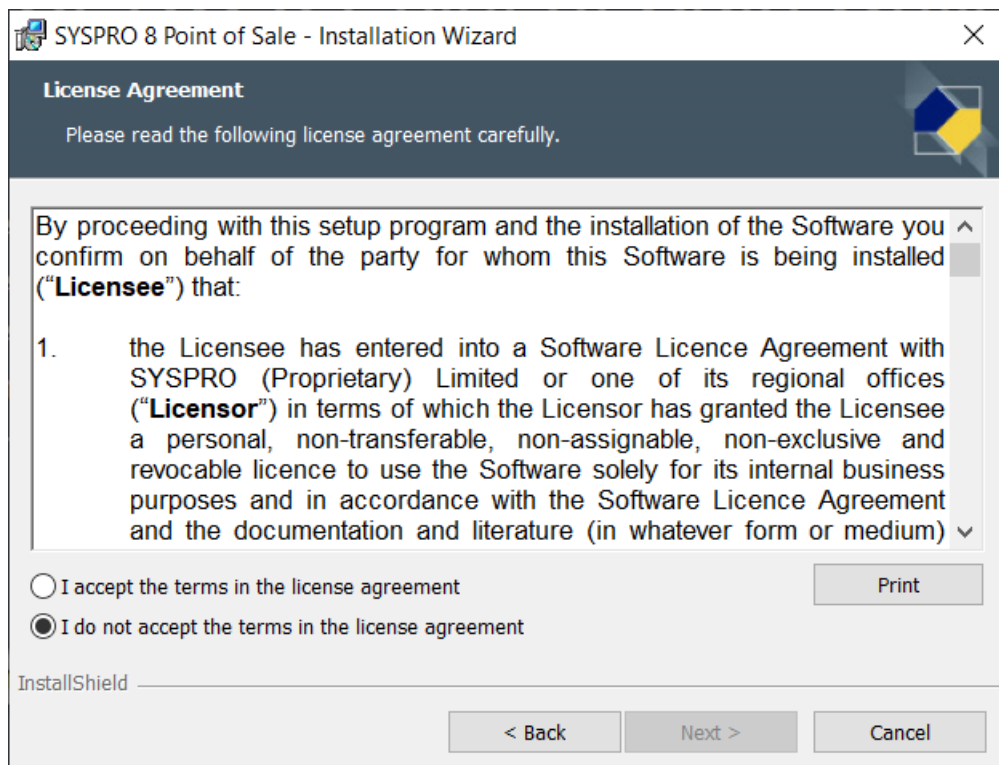
3. Select **Install**.

The **Welcome to the Installation Wizard for SYSPRO 8 Point of Sale** window is displayed.



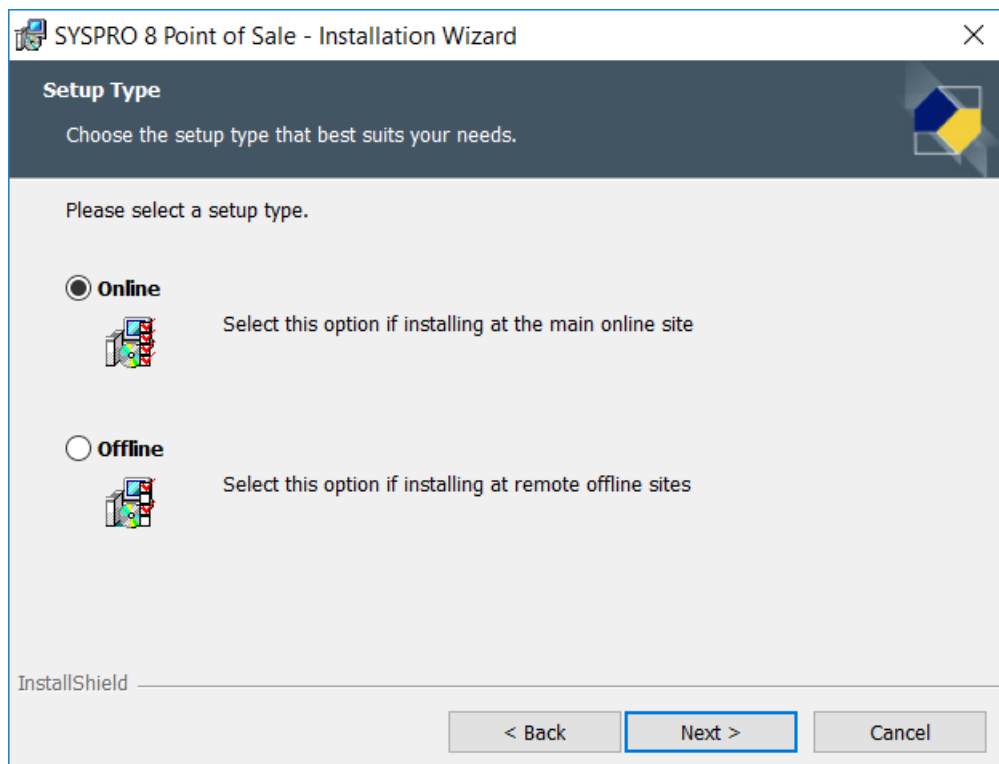
4. Select **Next >** to continue.

The **License Agreement** window is displayed.



5. Accept the terms of the agreement.
  - a) Read/Print the license agreement.
  - b) Select **I accept the terms in the license agreement**.
  - c) Select **Next >**.

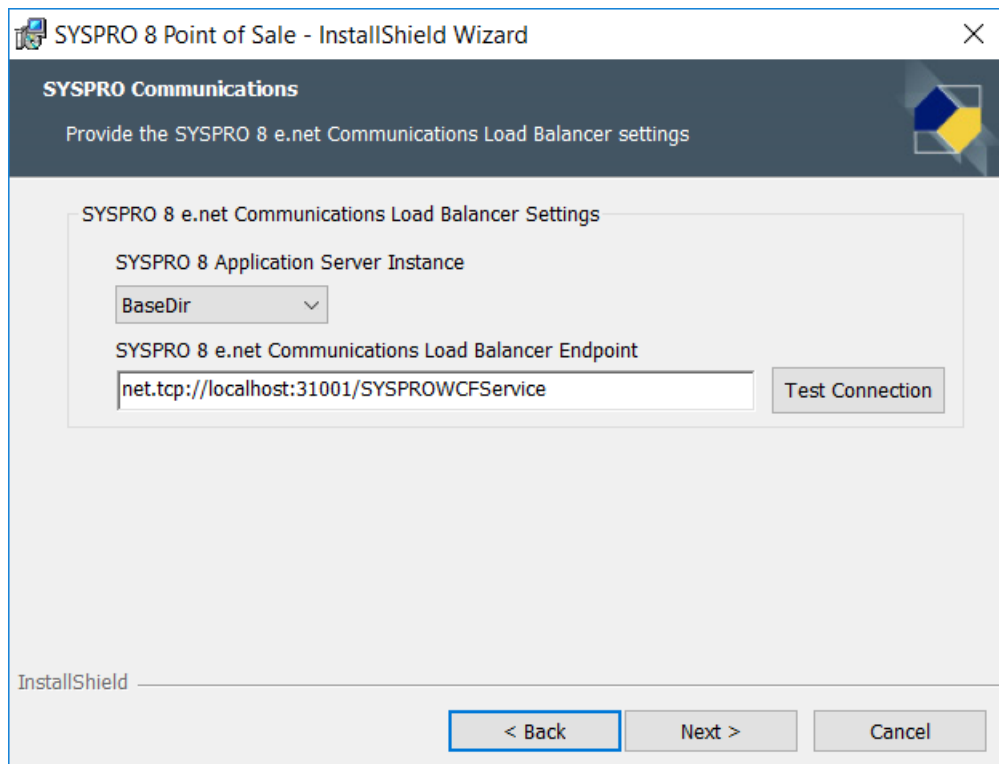
The **Setup Type** window is displayed.



6. Select **Online** and then **Next >** to continue.



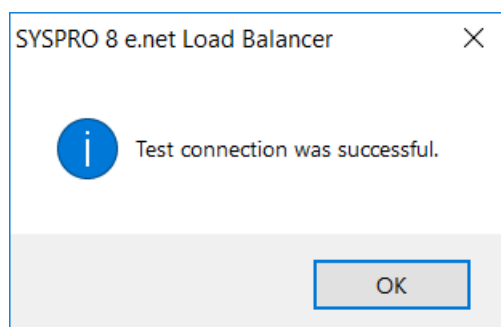
The ***SYSPRO Communications*** window is displayed.



The image shows a screenshot of the 'SYSPRO 8 Point of Sale - InstallShield Wizard' window. The title bar includes the application icon and the text 'SYSPRO 8 Point of Sale - InstallShield Wizard'. The main window has a dark header with the text 'SYSPRO Communications' and a subtitle 'Provide the SYSPRO 8 e.net Communications Load Balancer settings'. Below this, there is a section titled 'SYSPRO 8 e.net Communications Load Balancer Settings'. Inside this section, there is a label 'SYSPRO 8 Application Server Instance' followed by a dropdown menu currently showing 'BaseDir'. Below that is a label 'SYSPRO 8 e.net Communications Load Balancer Endpoint' followed by a text input field containing 'net.tcp://localhost:31001/SYSPROWCFService'. To the right of the input field is a 'Test Connection' button. At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

7. Provide the **SYSPRO 8 e.net Communications Load Balancer** settings.
  - a) Select the base directory for **SYSPRO 8 Application Server Instance**.
  - b) Enter the URL for the **SYSPRO 8 e.net Communications Load Balancer Endpoint**.
  - c) Select **Test Connection**.

The ***SYSPRO 8 e.net Load Balancer*** window is displayed showing whether or not the test connection was successful.

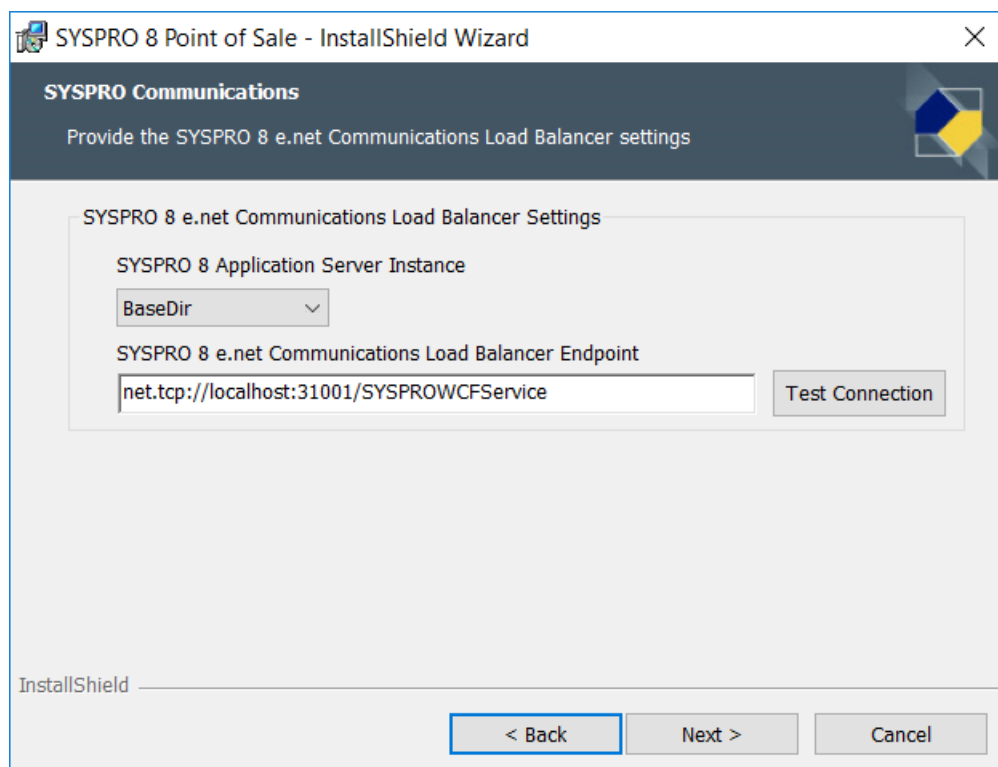


The image shows a screenshot of the 'SYSPRO 8 e.net Load Balancer' window. The title bar includes the application icon and the text 'SYSPRO 8 e.net Load Balancer'. The main window has a light blue background. On the left, there is a blue circular icon with a white 'i'. To the right of the icon, the text 'Test connection was successful.' is displayed. At the bottom right of the window, there is an 'OK' button.

 **Note:** If the test connection is not successful then you will need to address any **SYSPRO e.net Communications Load Balancer Settings** problems before continuing,

- d) Select **OK** to take you back to the ***SYSPRO Communications*** window.

The ***SYSPRO Communications*** window is displayed.



**SYSPRO 8 Point of Sale - InstallShield Wizard**

**SYSPRO Communications**  
Provide the SYSPRO 8 e.net Communications Load Balancer settings

SYSPRO 8 e.net Communications Load Balancer Settings

SYSPRO 8 Application Server Instance  
BaseDir

SYSPRO 8 e.net Communications Load Balancer Endpoint  
net.tcp://localhost:31001/SYSPROWCFService

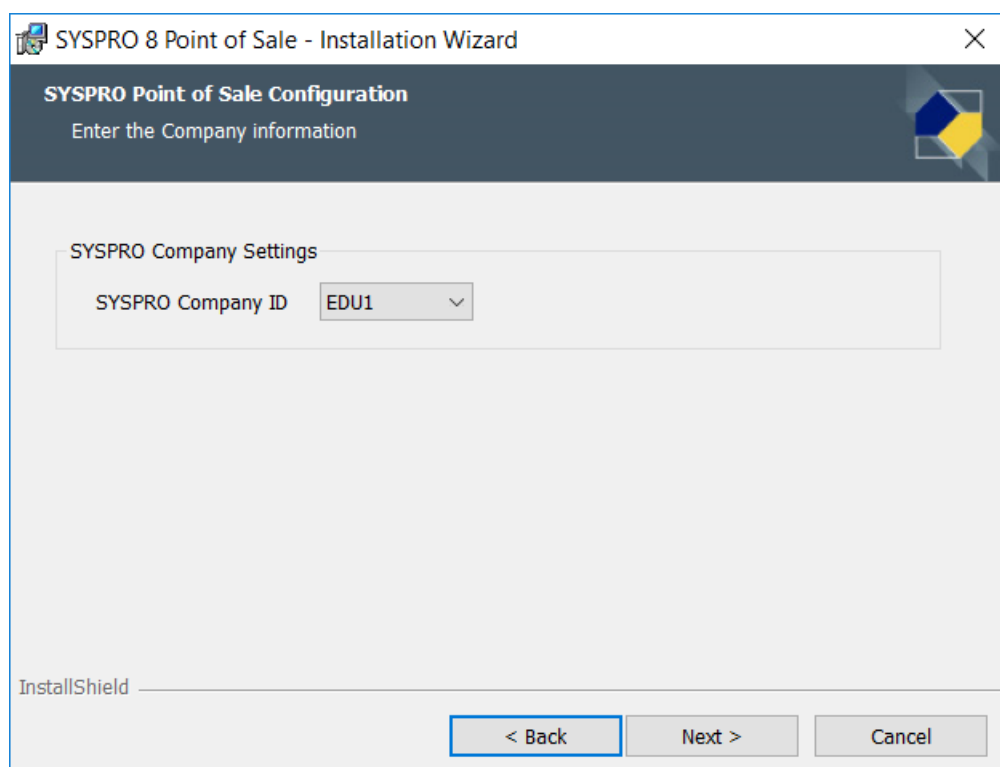
Test Connection

InstallShield

< Back   Next >   Cancel

e) Select **Next >** to continue.

The **SYSPRO Point of Sale Configuration** window is displayed.



**SYSPRO 8 Point of Sale - Installation Wizard**

**SYSPRO Point of Sale Configuration**  
Enter the Company information

SYSPRO Company Settings

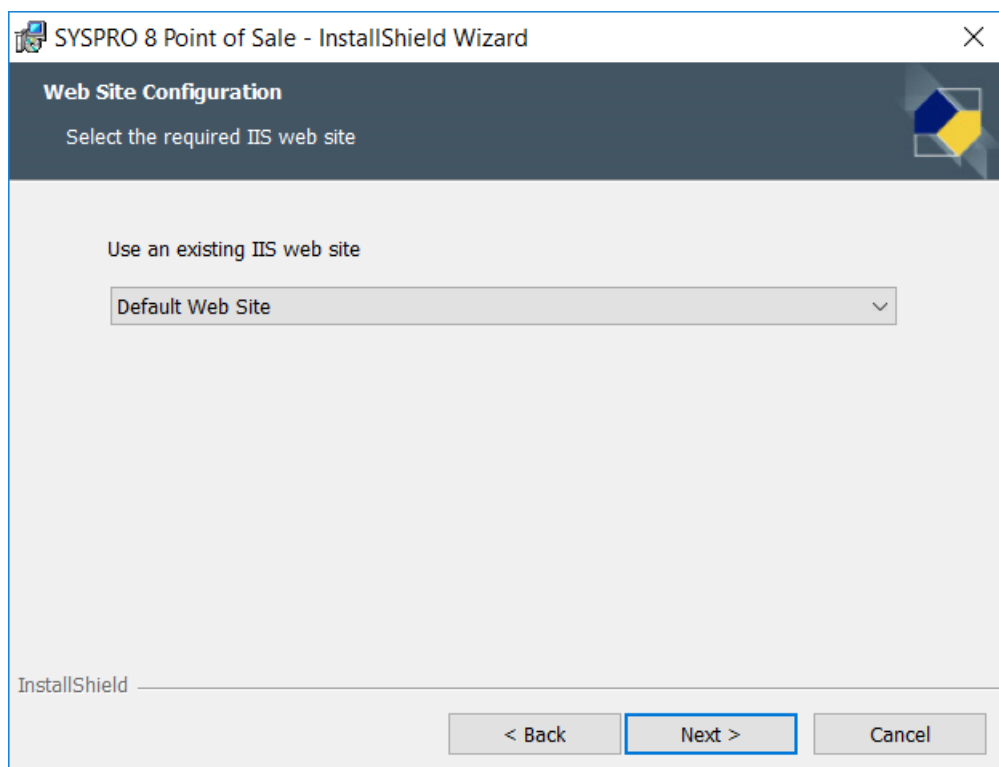
SYSPRO Company ID   EDU1

InstallShield

< Back   Next >   Cancel

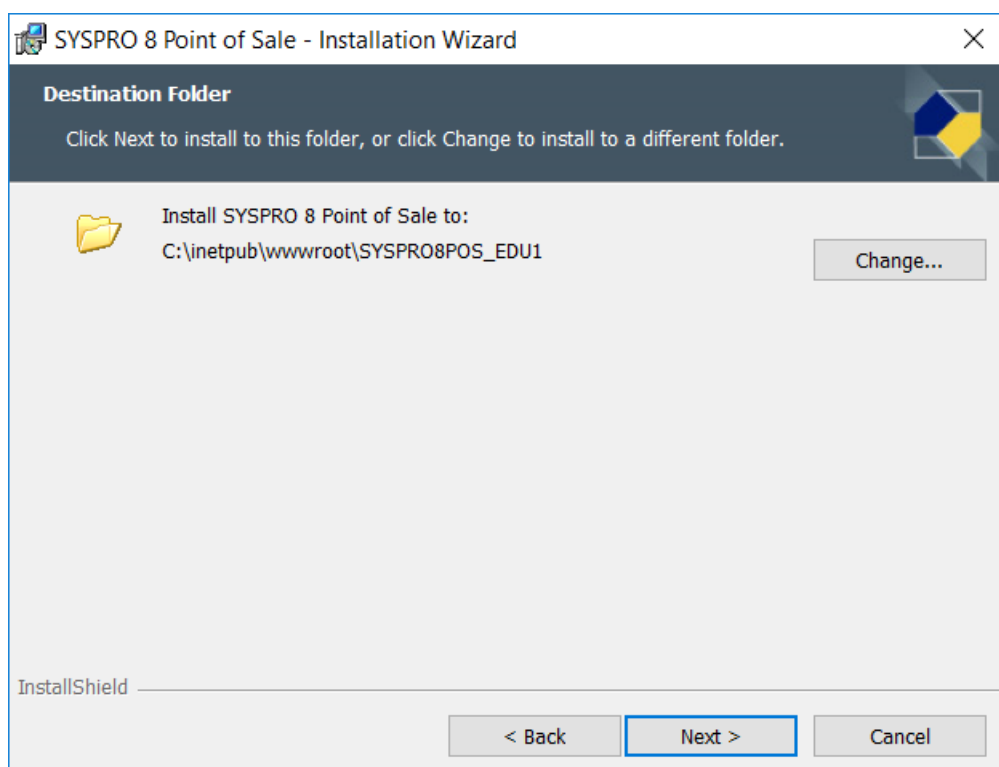
8. Select your **SYSPRO Company ID** from the drop down list and then **Next >** to continue.

The **Web Site Configuration** window is displayed.



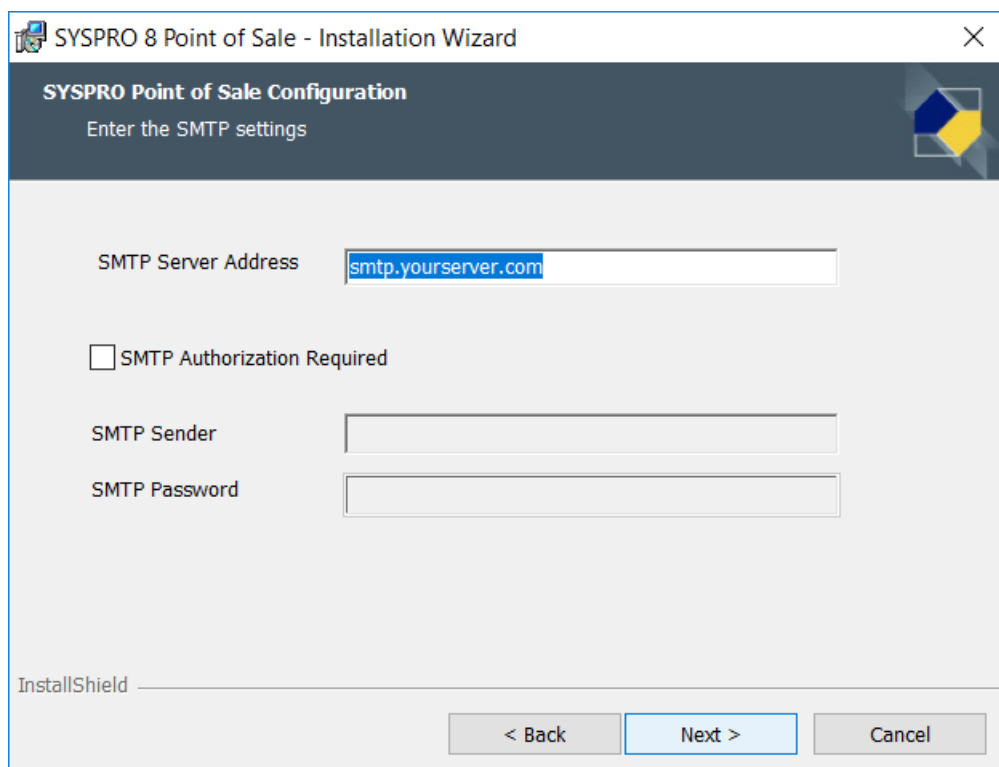
9. Select the required IIS Web Site and then **Next >** to continue.

The **Destination Folder** window is displayed.



10. Accept the default **Destination Folder** or **Change...** to amend the path and then **Next >** to continue.

The **SYSPRO Point of Sale Configuration - SMTP settings** window is displayed.



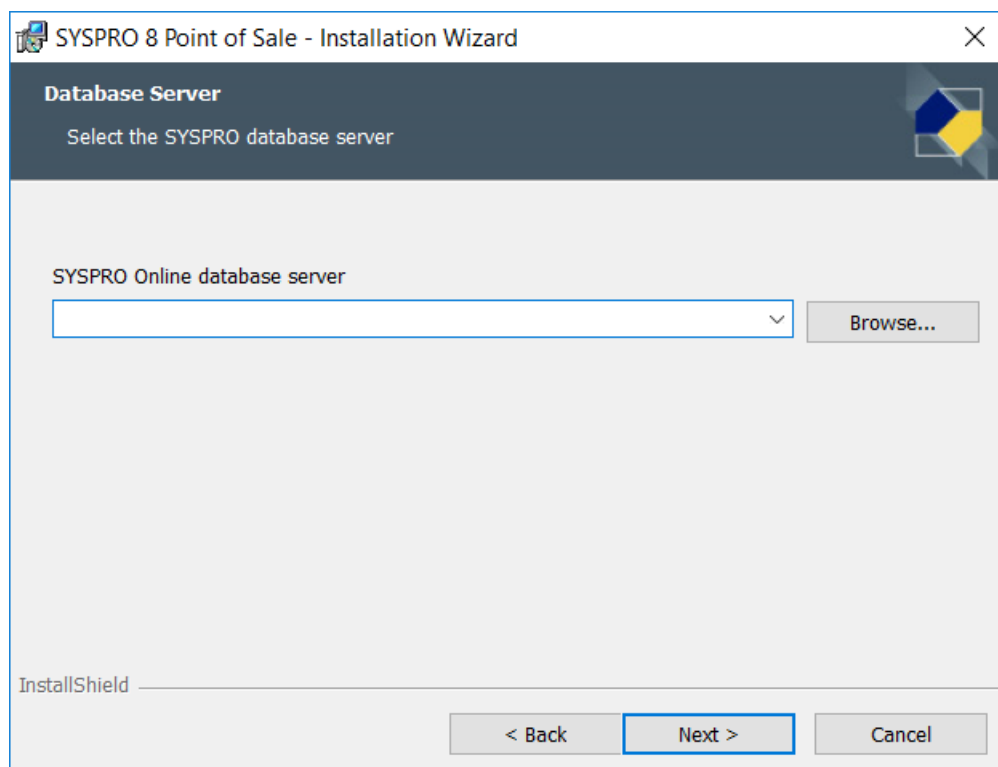
The image shows a screenshot of the 'SYSPRO 8 Point of Sale - Installation Wizard' window. The title bar reads 'SYSPRO 8 Point of Sale - Installation Wizard'. The main header area is dark blue with the text 'SYSPRO Point of Sale Configuration' and 'Enter the SMTP settings'. Below this, there are several input fields: 'SMTP Server Address' with the value 'smtp.yourserver.com', a checkbox for 'SMTP Authorization Required' which is unchecked, 'SMTP Sender' with an empty text box, and 'SMTP Password' with an empty text box. At the bottom, there is an 'InstallShield' logo and three buttons: '< Back', 'Next >' (highlighted in blue), and 'Cancel'.

11. Follow the steps below if you are going to connect SMTP.

The **Simple Mail Transfer Protocol** (SMTP ) is a communication protocol for electronic mail transmission.

- Enter a **SMTP Server Address**.
- If authorization is required, select **SMTP Authorization Required**.
- Enter the **SMTP Sender**.
- Enter the **SMTP Password**.
- Select **Next >** to continue.

The **Database Server** window is displayed.

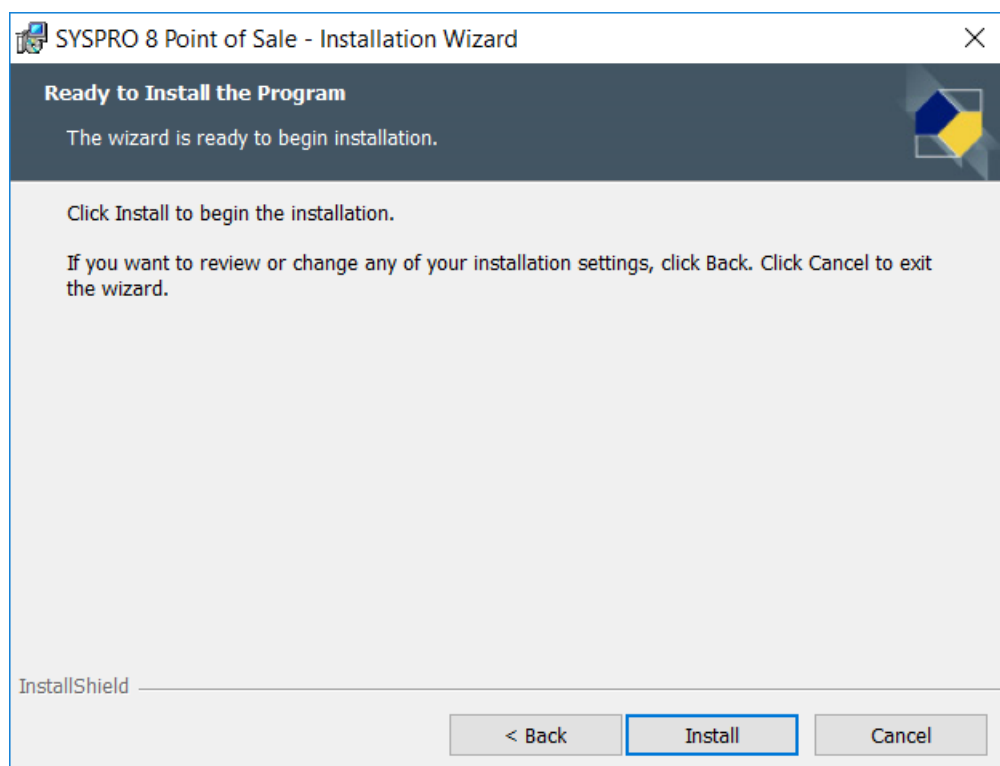


12. Enter the **SYSPRO database server**.

You can also select **Browse** to perform a search for the server.

- a) Select a **SYSPRO Online database server** from the pick list or enter a server name.
- b) Select **Next >** to continue.

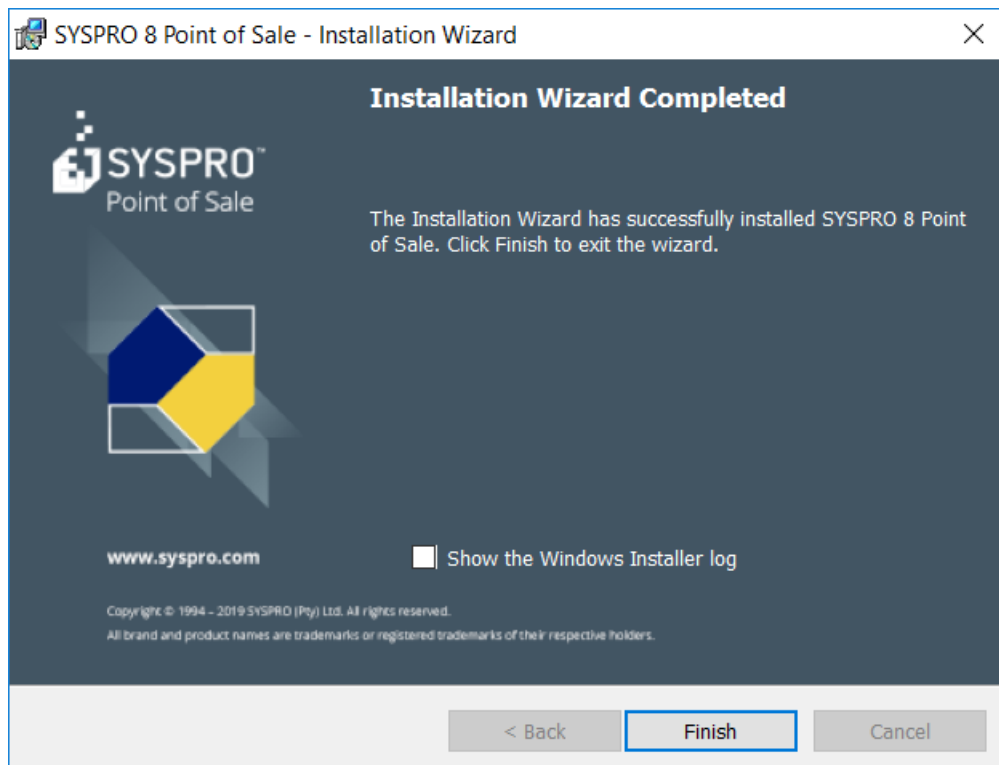
The **Ready to Install the Program** window is displayed.



13. To begin the installation select **Install**.

If you want to review or change any of your installation settings, click **< Back**. Select **Cancel** to exit the wizard.

The **Installation Wizard Completed** window is displayed.



The **Installation Wizard** has successfully installed **SYSPRO Point of Sale Online**.

14. Select **Finish** to exit the window.

If not performed earlier, you are now ready to install the **SYSPRO Point of Sale Services**. Follow the task **Installing the SYSPRO Point of Sale Services**.

## Installing the SYSPRO Point of Sale Services

The following steps describe how to install Services for Point of Sale.

You must have installed:

- Microsoft .NET Framework 4.5
  - SYSPRO 8 Runtime
  - SYSPRO Avanti Initialization Service
  - SYSPRO 8 Point of Sale Offline Foundation
  - SYSPRO 8 Point of Sale e.net Communications Service
  - SYSPRO 8 Point of Sale Offline
  - SYSPRO 8 Online
  - SYSPRO 8 Point of Sale Online
  - Added a branch and user in SYSPRO Point of Sale Online
1. Having completed the SYSPRO 8 Point of Sale Offline install you will now install the SYSPRO 8 Point of Sale Services.



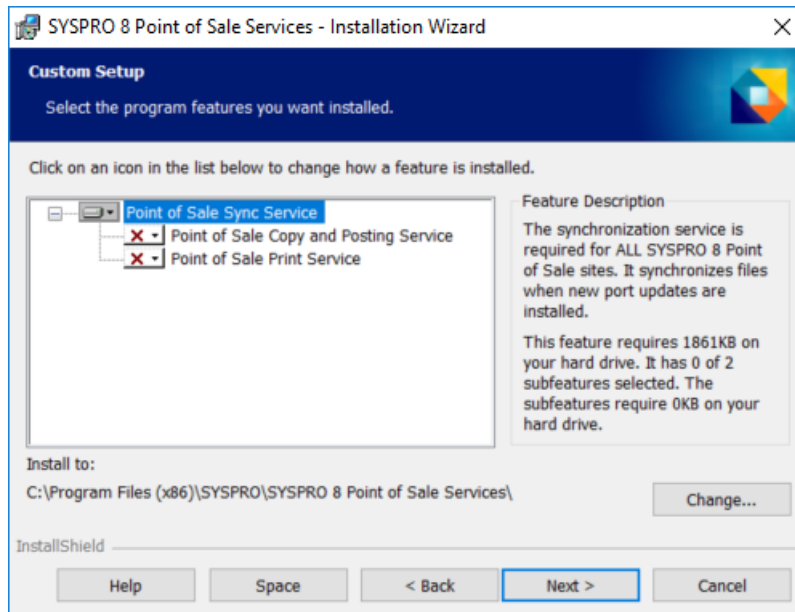
2. Select **Next >** to continue.

The **License Agreement** window is displayed.



3. Accept the terms of the agreement.
  - a) Read/Print the license agreement.
  - b) Select **I accept the terms in the license agreement**.
  - c) Select **Next >**.

The **Custom Setup** window is displayed.

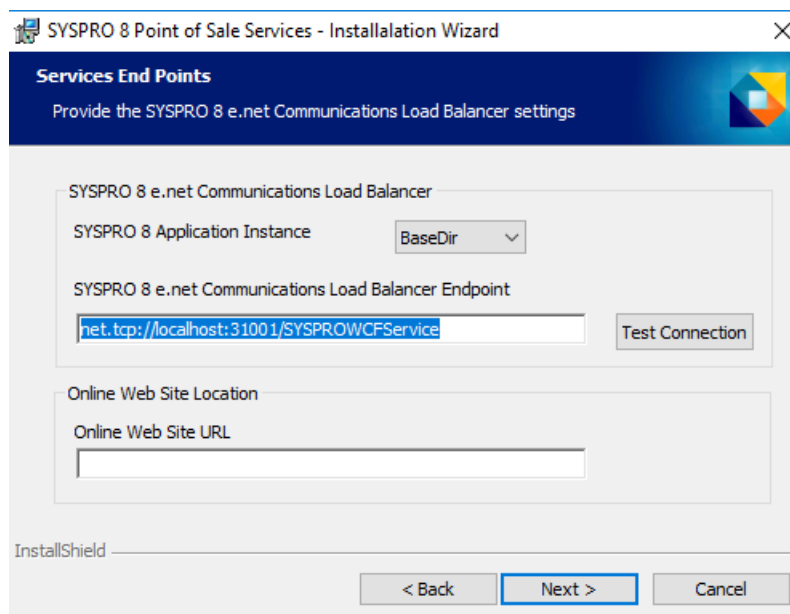


4. Select where you want to install the **Custom Setup**.

The synchronization service is required for ALL SYSPRO 8 Point of Sale sites. It synchronizes files when new port updates are installed.

- a) **Point of Sale Copy and Posting Services** are only required on the **MAIN** online SYSPRO 8 Point of Sale site. They will copy data from offline branches and post it to SYSPRO.
- b) The print service is required for **SYSPRO Point of Sale** sites where printing directly using Point of Sale is required. If printing using PDF viewers installed on client machines are used this is not required.
- c) Select **Next >** to continue.

The **Services End Points** window is displayed.



5. Enter the SYSPRO 8 e.net Communications Load Balancer Settings.

- a) Select the correct entry for the **SYSPRO 8 Application Instance**.



- b) Enter or Accept the default entry for the **SYSPRO 8 e.net Communications Load Balancer Endpoint**.
- c) Test the Connection. If the connection is successful, move onto entering the Online Web Site URL. If the connection is not successful then you need to correct the errors before continuing.
- d) Enter the **Online Web Site URL**.
- e) Select **Next >** to continue.

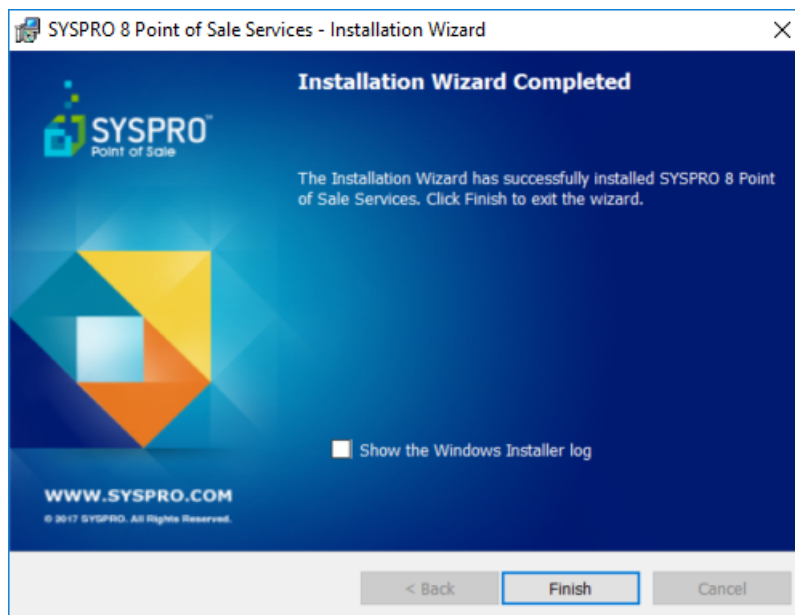
The **Printing Service Credentials** window is displayed.

6. Provide the **Printing Service Credentials** and select **Next >** to continue..
7. Once the printing service credentials are accepted select **Next >** to continue.

The **Ready to Install the Program** window is displayed.

8. Select **Install**.

The **Installation Wizard Completed** window is displayed.



9. Select **Finish**.

The **SYSPRO 8 Point of Sale Offline** window is displayed.



You will not be installing another instance of Point of Sale at this stage. Select **x** to exit the program.

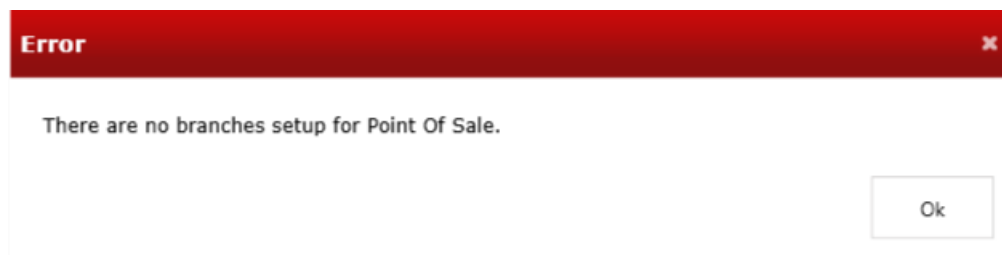
## Launching SYSPRO Point of Sale Online for the first time

The following steps describe how to launch SYSPRO Point of Sale, and then log into Point of Sale using the newly created branch and user.

1. Open the **SYSPRO Point of Sale** Silverlight application by entering the URL *http://{your server name}/SYSPRO8POS\_{yourcompanyID}/* in your browser's **Address** bar.

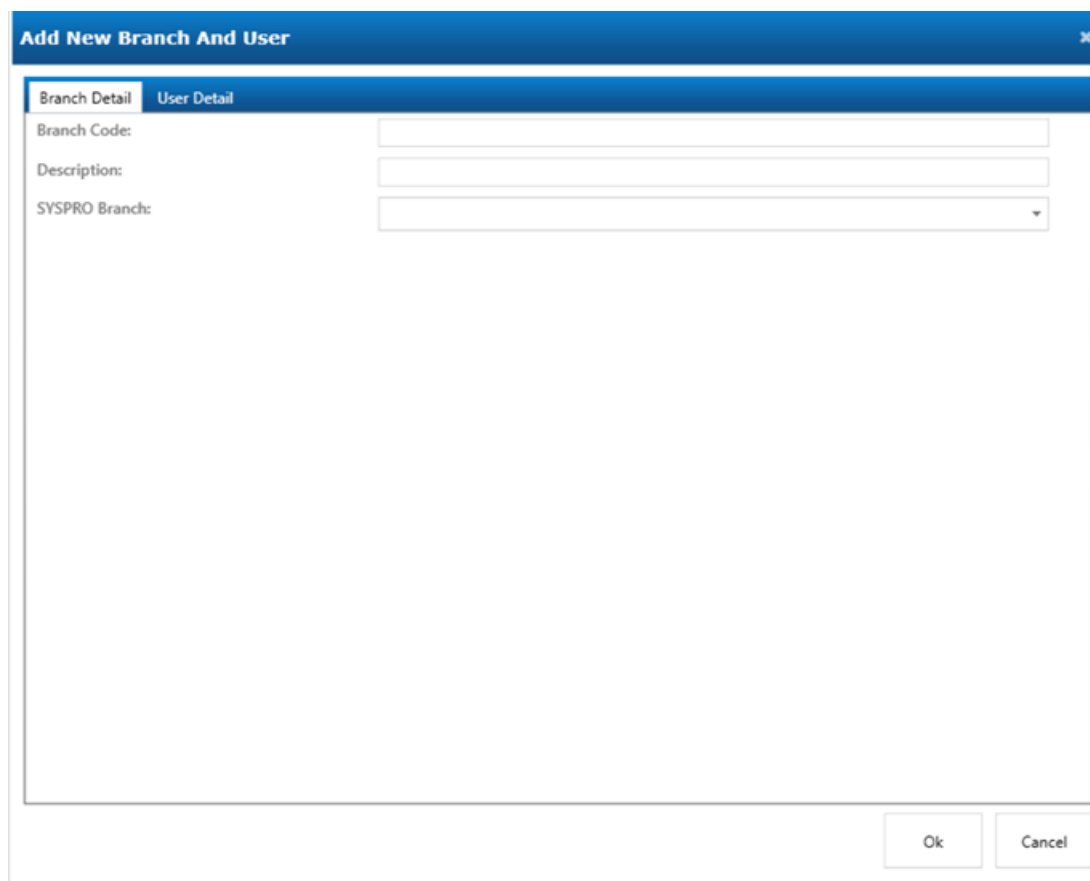
Currently you need to use **Internet Explorer** to load the Silverlight version of Point of Sale.

The **SYSPRO Point of Sale** application is opened, with the following error message.



2. Select **Ok**.

The **Add New Branch And User** window is displayed, showing the **Branch Detail** tab.

A window titled "Add New Branch And User" with a blue header bar and a close button (X). It has two tabs: "Branch Detail" (selected) and "User Detail". Under the "Branch Detail" tab, there are three input fields: "Branch Code:", "Description:", and "SYSPRO Branch:". The "SYSPRO Branch:" field is a dropdown menu. At the bottom right are "Ok" and "Cancel" buttons.

3. Add a new branch and user.  
The bare minimum information is entered here. You will need to return to the **Branch and User** program to complete the balance of the required information later.
4. Create a branch.

- a) Enter a branch code in the **Branch Code** field.

The branch code has a limitation of 10 characters.

- b) Enter a branch description in the **Description** field.
- c) Select a SYSPRO branch from the **SYSPRO Branch** list.

5. Create a user.

- a) Select the **User Detail** tab.

The **User Detail** tab is displayed in the **Add New Branch And User** window.

The screenshot shows the 'Add New Branch And User' window with the 'User Detail' tab selected. The form contains the following fields and options:

- User Name:** Text field with 'Pat' entered.
- Email:** Text field with 'patw@OUTDOORS.com' entered.
- Password:** Text field with masked characters '\*\*\*\*\*'.
- First Name:** Text field with 'Pat' entered.
- Surname:** Text field with 'Webb' entered.
- SYSPRO Operator:** Radio buttons for 'New' and 'Existing' (selected). Below is a text field with 'PAT' and a dropdown arrow.
- Change Password On Next Login:** A checkbox that is currently unchecked.

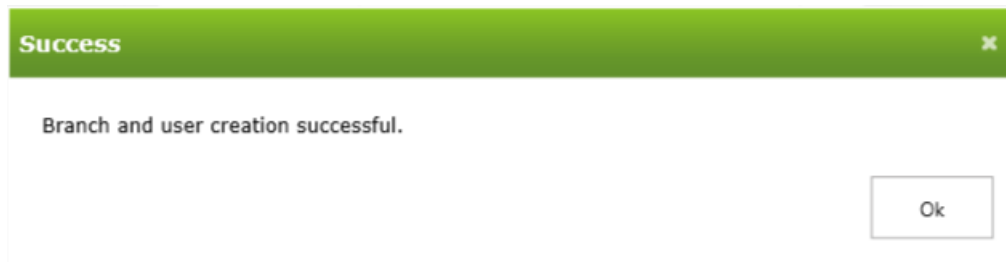
At the bottom right of the window are 'Ok' and 'Cancel' buttons.


- b) Enter the user login name in the **User Name** field.
- c) Enter an email address in the **Email** field.
- d) Enter a password in the **Password** field.
- e) Enter the user's first name in the **First Name** field.
- f) Enter the user's last name in the **Last Name** field.
- g) Select **Existing** to link the user to an existing SYSPRO operator, or select **New** to create a new SYSPRO operator for Point of Sale only.

 **Note:** If linking to an existing SYSPRO operator, ensure that the SYSPRO operator is set to use **Microsoft SQL Server authentication**.

Also ensure that the username and password used for Microsoft SQL Server authentication are the same as the details provided in the SYSPRO Point of Sale Online and Offline installation wizards.

- h) Select **Change Password On Next Login** if you want the operator to create their own password on next login.
- i) Select **Ok**.



 **Note:** An **Admin** user with full permissions is created. It is recommended to change the admin password on first login.

6. Select **Ok**.

The **SYSPRO Point of Sale Login** window is displayed.

The login window has a blue header with the SYSPRO Point of Sale logo on the left and the text "Point of Sale" on the right. The main area is white and contains labels for "Username" and "Password" next to their respective input fields. Below the password field is a keyboard icon and a "Login" button. The footer is blue and contains the text "SYSPRO Point of Sale 8.0.4.4" on the left and "Copyright ©1994 - 2019 SYSPF" on the right.

# Installing Point of Sale Offline

## Installing SYSPRO Avanti Initialization Service - Offline

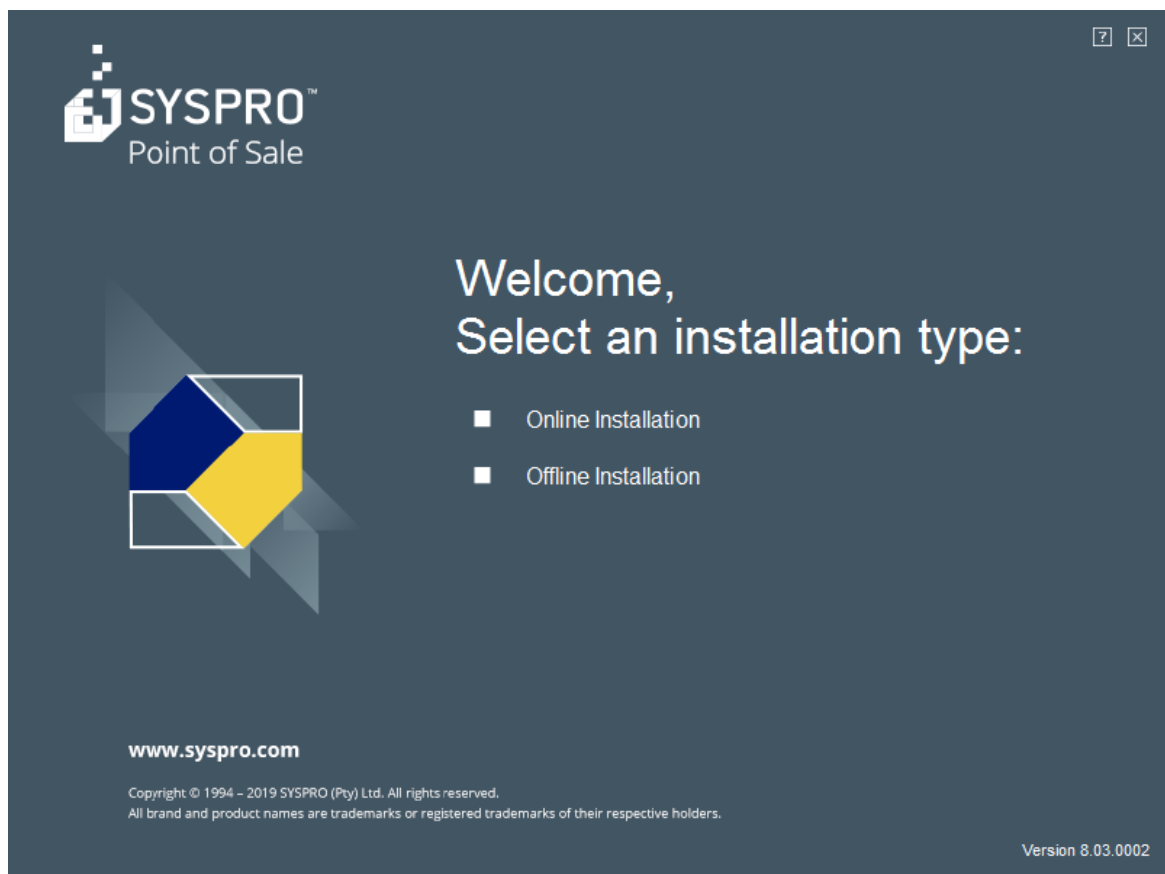
The following steps describe how to install the SYSPRO Avanti Initialization Service - Offline.

You must have installed:

- Microsoft .NET Framework 4.5
- SYSPRO 8 Runtime
- SYSPRO 8 Point of Sale Online
- Added a branch and user in SYSPRO Point of Sale Online.

1. Run the **SYSPRO Point of Sale** autorun.exe program.

The **Welcome, Select an installation type** window is displayed.



2. Select **Offline Installation**.

The **SYSPRO Point of Sale Offline** window is displayed.



# SYSPRO 8 Point of Sale Offline

[Home](#) > [Offline](#)

Installed	<input checked="" type="checkbox"/>	Microsoft .NET Framework 4.5
Installed	<input checked="" type="checkbox"/>	SYSPRO 8 Runtime
Pending	<input checked="" type="checkbox"/>	SYSPRO Avanti Initialization Service
Pending	<input checked="" type="checkbox"/>	SYSPRO 8 Point of Sale Offline Foundation
Pending	<input checked="" type="checkbox"/>	SYSPRO 8 Point of Sale e.net Communications Service
Pending	<input checked="" type="checkbox"/>	SYSPRO 8 Point of Sale
Pending	<input checked="" type="checkbox"/>	SYSPRO 8 Point of Sale Services

Install

[www.syspro.com](http://www.syspro.com)

Copyright © 1994 – 2019 SYSPRO (Pty) Ltd. All rights reserved.  
All brand and product names are trademarks or registered trademarks of their respective holders.



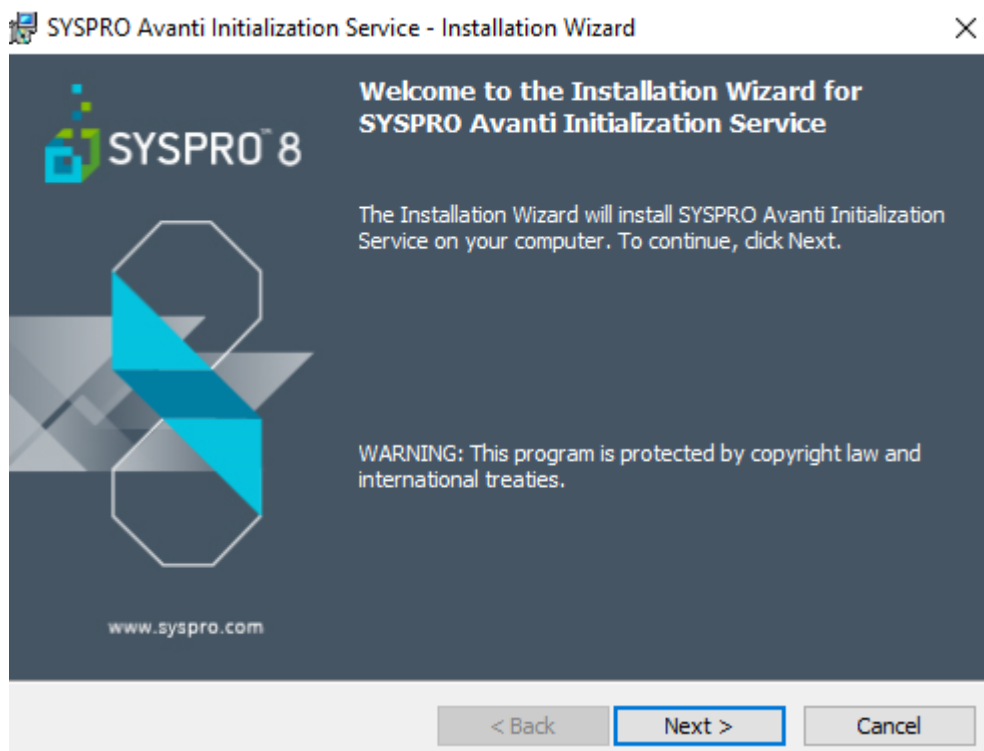
**Note:** For a first time installation, all of the components will have an install status of **Pending**.

If none of the components have been installed, it is recommended that you begin with installing Microsoft .NET Framework 4.5.

For the purpose of this task, it is assumed that you have already installed Microsoft .NET Framework 4.5.

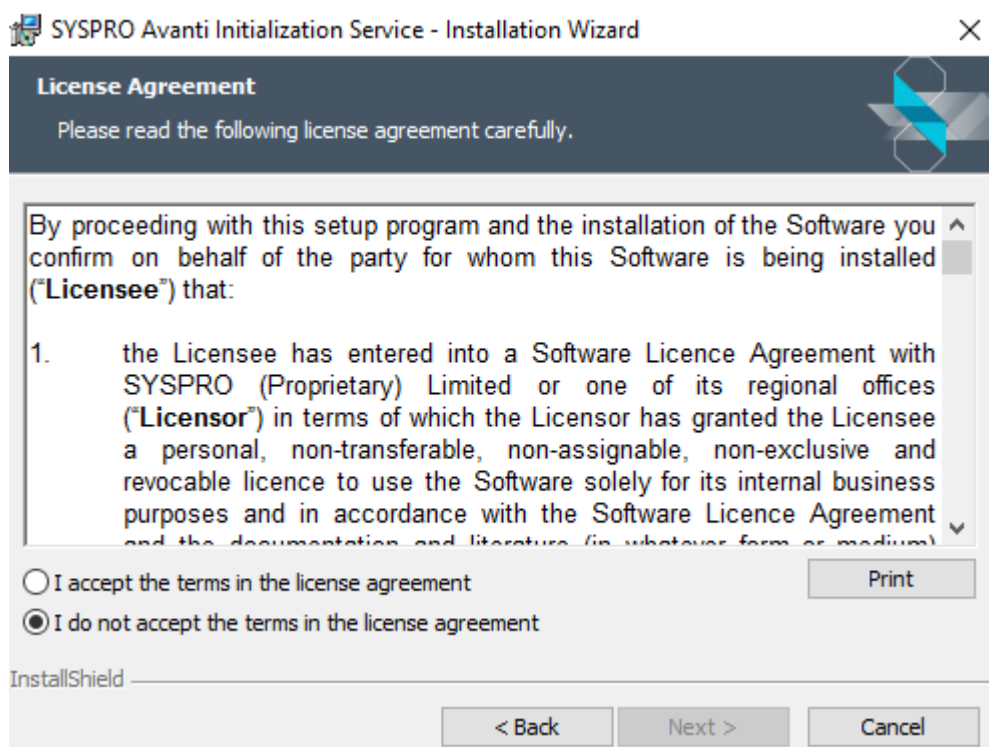
3. Select **Install** to continue.

The **SYSPRO Avanti Initialization Service - Installation Wizard** window is displayed.



4. Select **Next >** to continue.

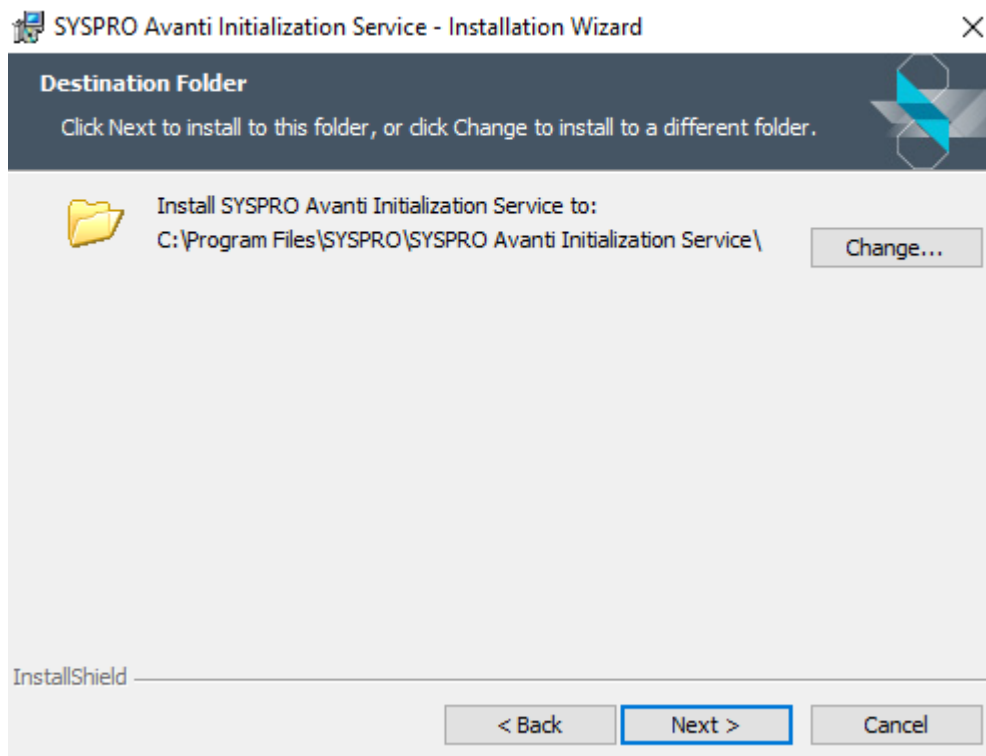
The ***SYSPRO Avanti Initialization Service - License Agreement*** window is displayed.



5. Accept the terms of the agreement.
  - a) Read/Print the license agreement.
  - b) Select **I accept the terms in the license agreement**.
  - c) Select **Next >**.

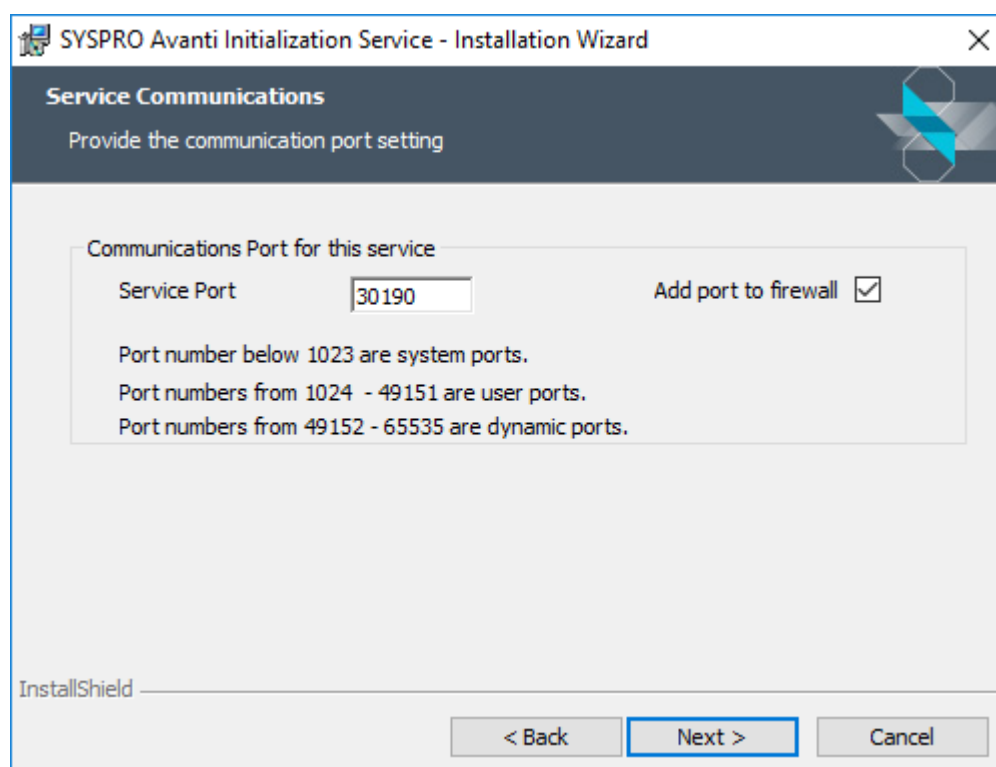
The ***SYSPRO Avanti Initialization Service - Destination Folder*** window is displayed.





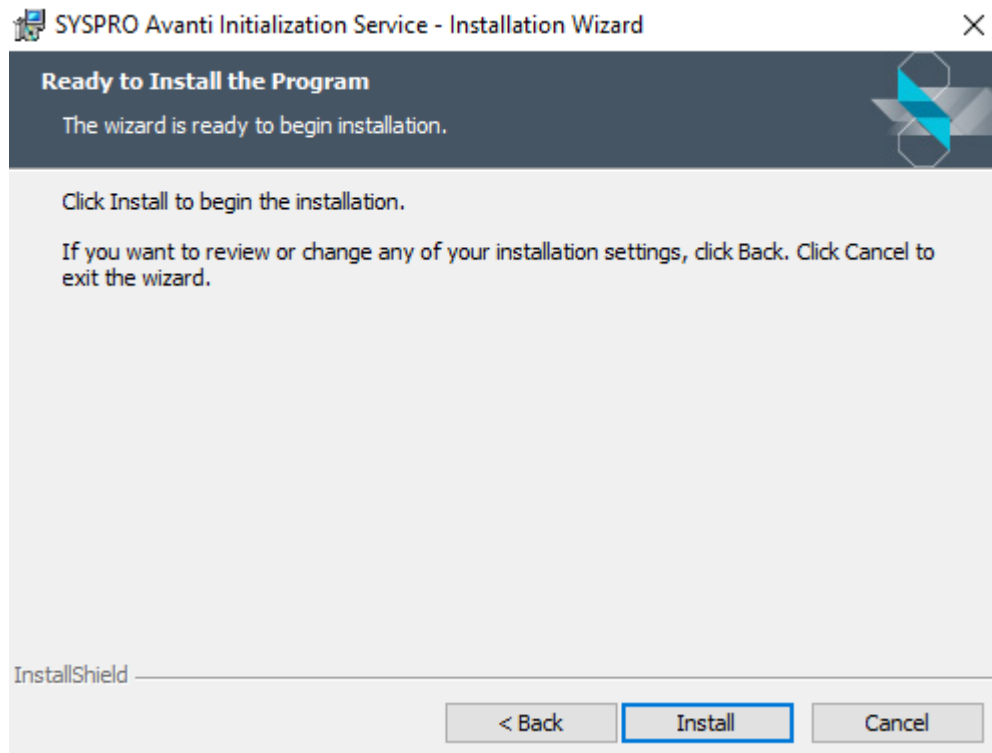
6. Enter the folder that you want to install **SYSPRO Avanti Initialization Service** .
  - a) You can change the install path by selecting **Change...** or accept the default.
  - b) Select **Next >** to continue.

The **Service Communications** window is displayed.



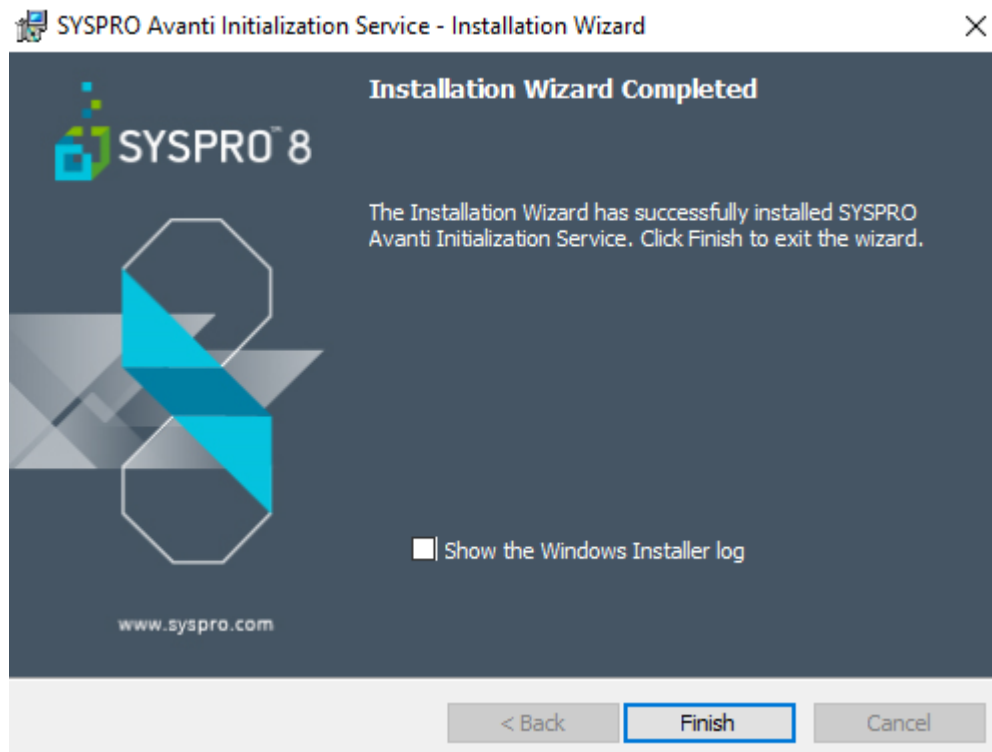
7. Provide the communication port setting and select **Next >** to continue.

The **Ready to install the Program** window is displayed.



8. Select **Install** to continue.

The **Installation Wizard Completed** window is displayed.



9. Select **Finish**.

The **Welcome to the Installation Wizard for SYSPRO 8 Point of Sale Offline Foundation** window is displayed.



10. Follow the task steps to install the **SYSPRO 8 Point of Sale Offline Foundation**.

## Installing SYSPRO 8 Point of Sale Offline Foundation

The following steps describe how to install the SYSPRO 8 Offline Foundation.

You must have installed:

- Microsoft .NET Framework 4.5
- SYSPRO 8 Runtime
- SYSPRO Avanti Initialization Service
- SYSPRO 8 Point of Sale Online
- Added a branch and user in SYSPRO Point of Sale Online.
- Add an offline branch and user for the Offline branch.

 **Note:** This needs to be created via the **Main Branch > Branch Settings and Manage User**. You will also need to allocate a license to this branch before logging in.

1. You have completed installing **SYSPRO Avanti Initialization Service Offline** and are now ready to install the **SYSPRO 8 Point of Sale Offline Foundation**.

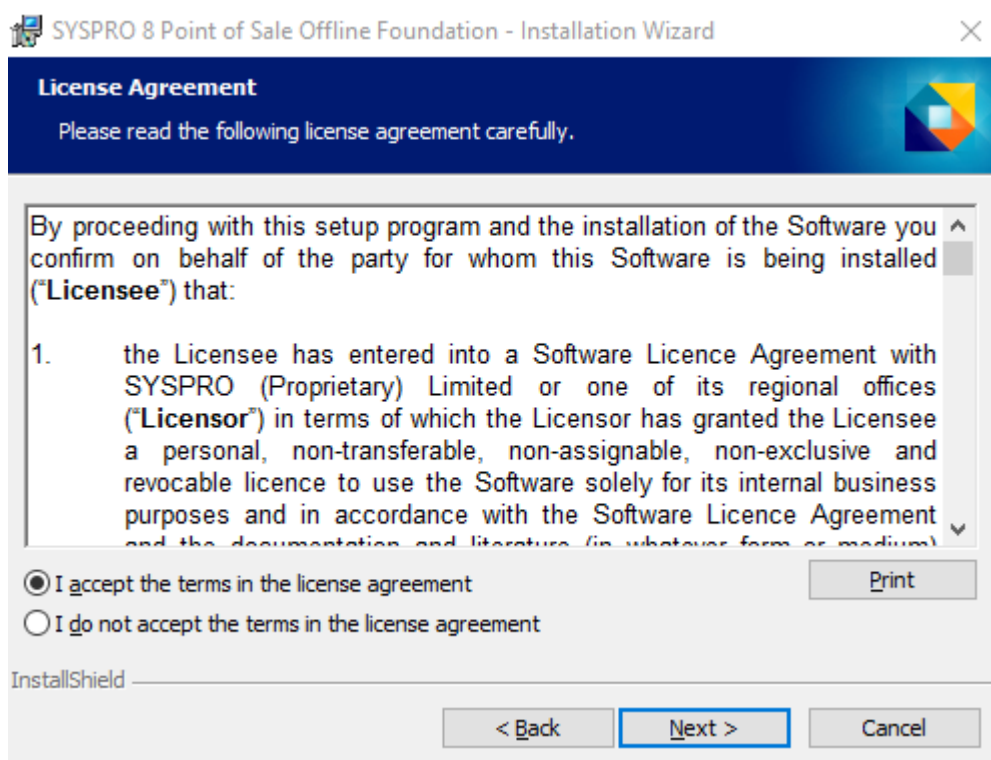
The **Welcome to the Installation Wizard for SYSPRO 8 Point of Sale Offline Foundation** window is displayed.



10

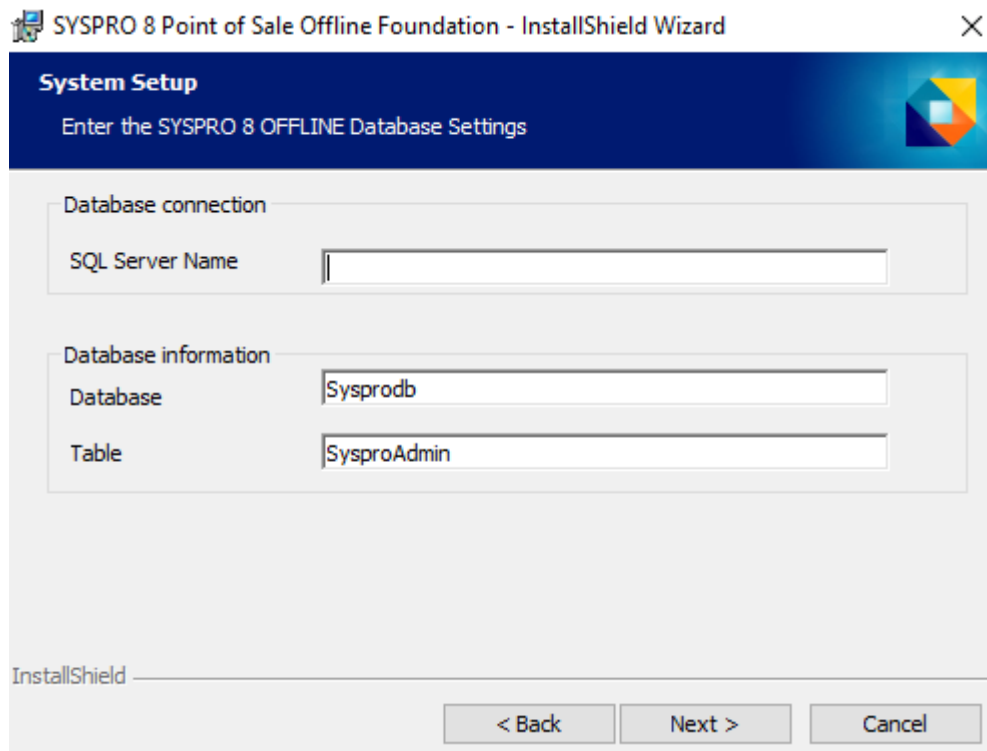
2. Select **Next >** to continue.

The **License Agreement** window is displayed.



3. Accept the terms of the agreement.
  - a) Read/Print the license agreement.
  - b) Select **I accept the terms in the license agreement**.
  - c) Select **Next >**.

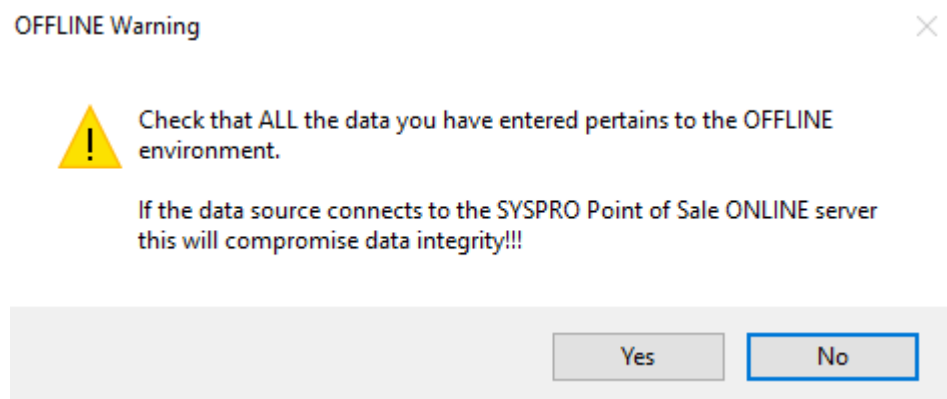
The **System Setup** window is displayed.



4. Enter the **SYSPRO 8 OFFLINE** Database Settings.

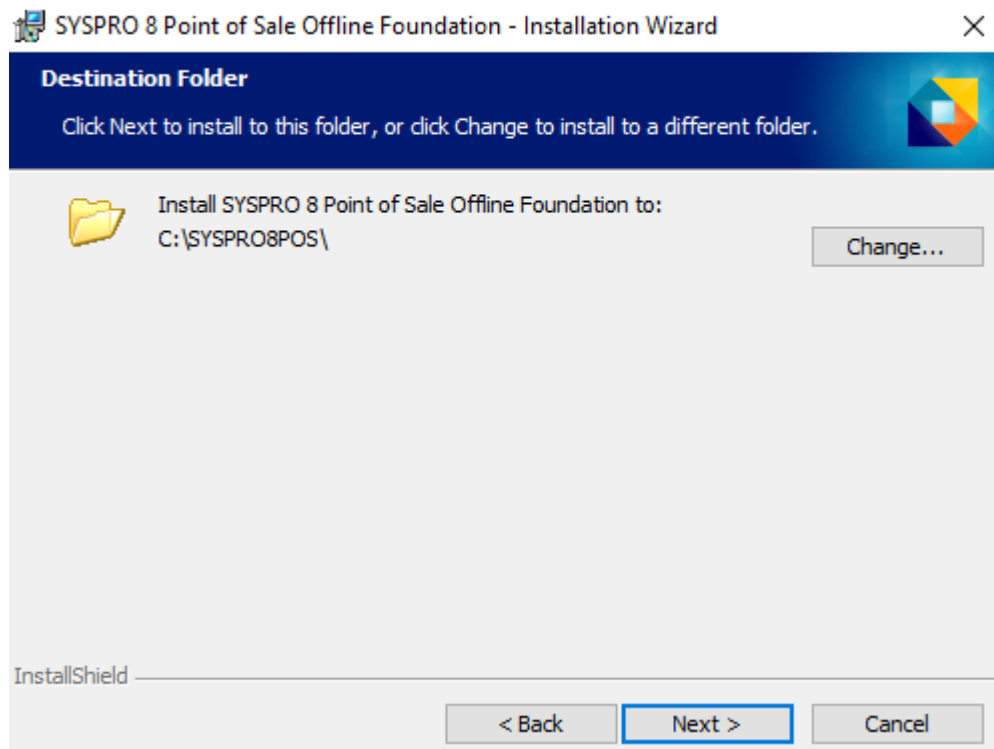
- a) Enter the **SQL Server Name**.
- b) Enter or accept the **Database information**.
- c) Select **Next >**.

The **OFFLINE Warning** window is displayed.



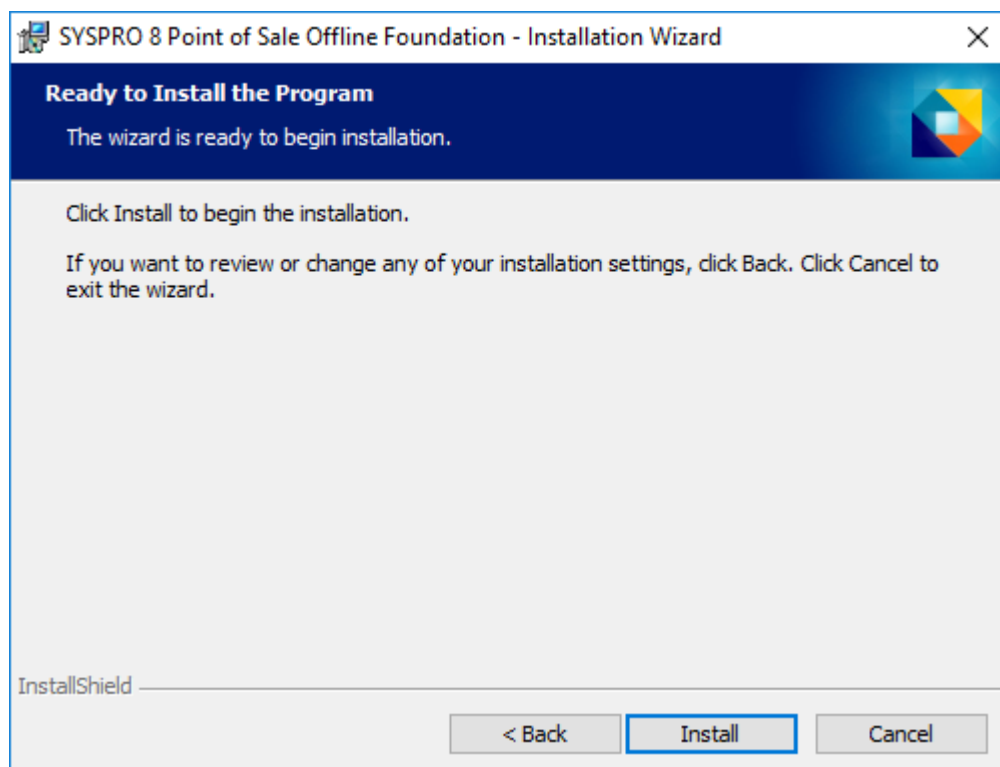
d) Read the **OFFLINE Warning** and if all is ok select **Yes**.

The **Destination Folder** window is displayed.



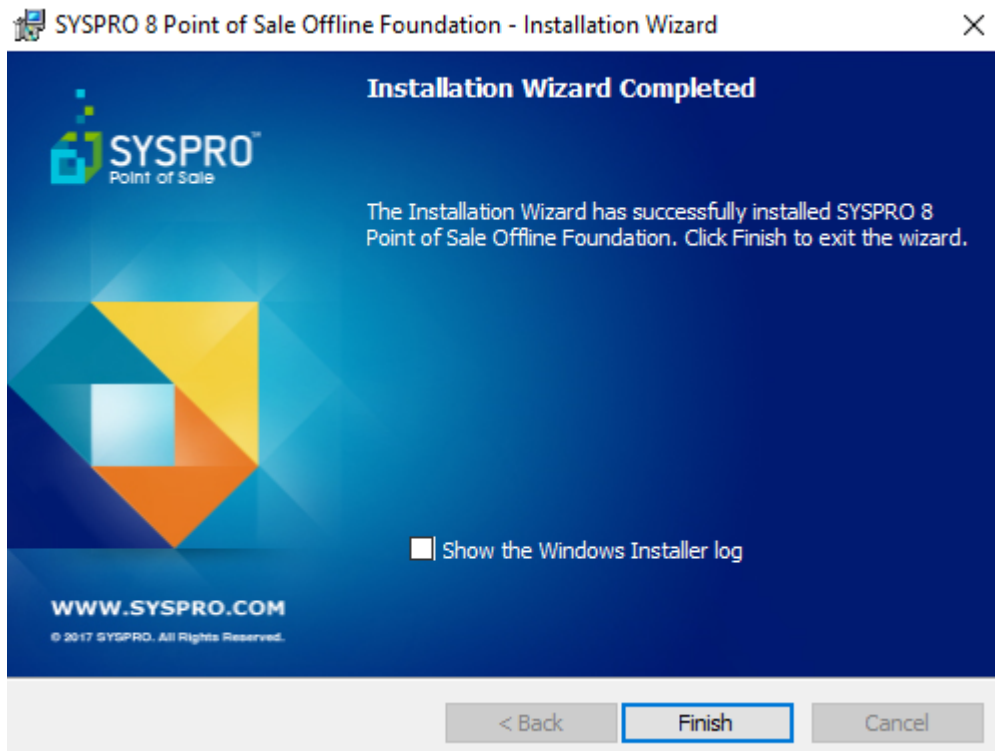
5. Enter the folder that you want to install the **SYSPRO Point of Sale Offline Foundation** to.
  - a) You can change the install path by selecting **Change....**
  - b) Select **Next >** to continue.

The **Ready to Install the Program** window is displayed.



- c) Select **Install**.

The **Installation Wizard Completed** window is displayed.



6. Select **Finish** to exit the window.  
You now need to install the **SYSPRO 8 Point of Sale e.net Communications Service**.

## Installing SYSPRO Point of Sale e.net Communications Service

The following steps describe how to install the SYSPRO 8 Point of Sale e.net Communications Load Balancer in an offline environment.

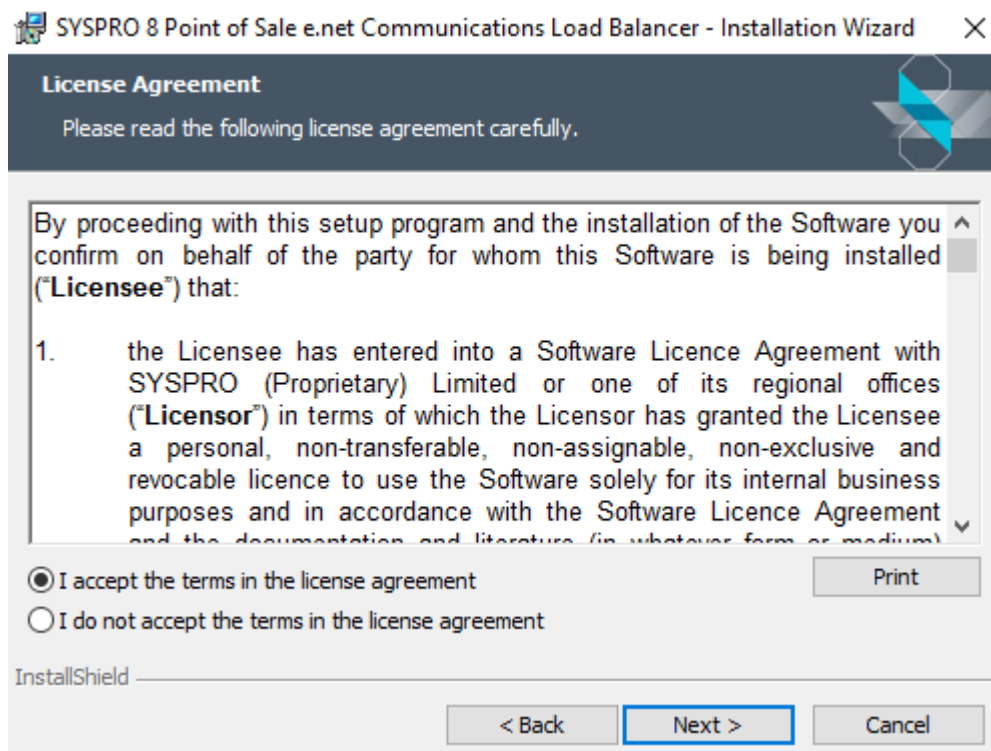
You must have installed:

- Microsoft .NET Framework 4.5
  - SYSPRO 8 Runtime
  - SYSPRO Avanti Initialization Service
  - SYSPRO 8 Point of Sale Offline Foundation
  - SYSPRO 8 Online
  - SYSPRO 8 Point of Sale Online
  - Added a branch and user in SYSPRO Point of Sale Online.
1. Run the **SYSPRO Point of Sale** autorun.exe program and select to install **SYSPRO 8 Post of Sale e.net Communications Service** in an offline environment.



2. Select **Next >** to continue.

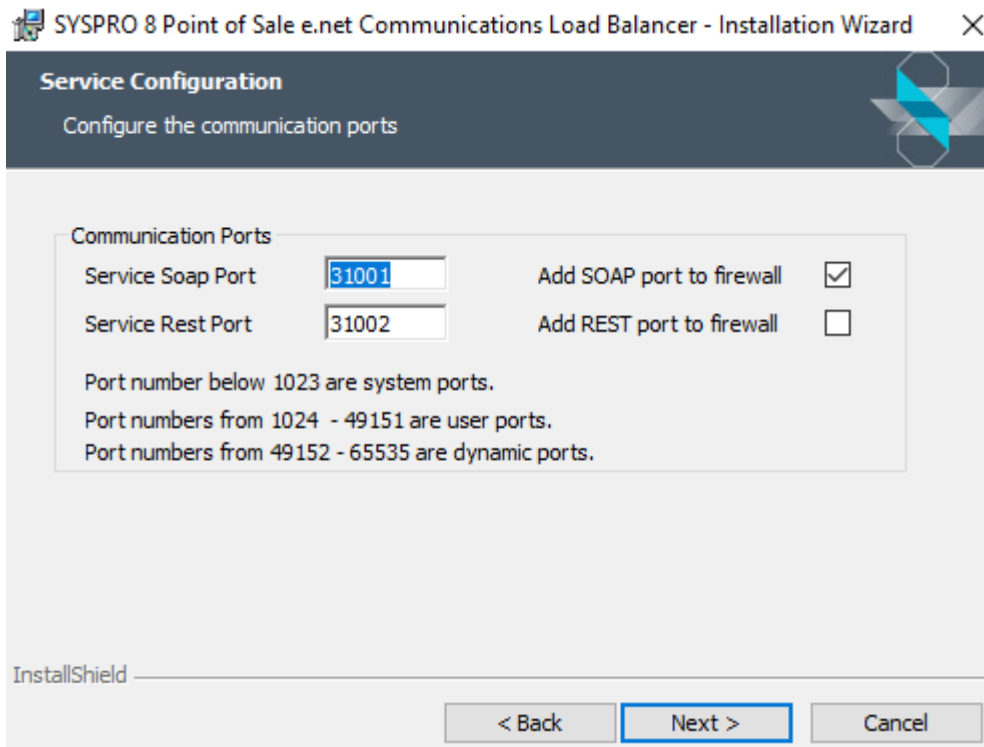
The **License Agreement** window is displayed.



3. Accept the terms of the agreement.
  - a) Read/Print the license agreement.
  - b) Select **I accept the terms in the license agreement**.
  - c) Select **Next >**.

The **Service Configuration** window is displayed.





**Service Configuration**  
Configure the communication ports

Communication Ports

Service Soap Port	<input type="text" value="31001"/>	Add SOAP port to firewall	<input checked="" type="checkbox"/>
Service Rest Port	<input type="text" value="31002"/>	Add REST port to firewall	<input type="checkbox"/>

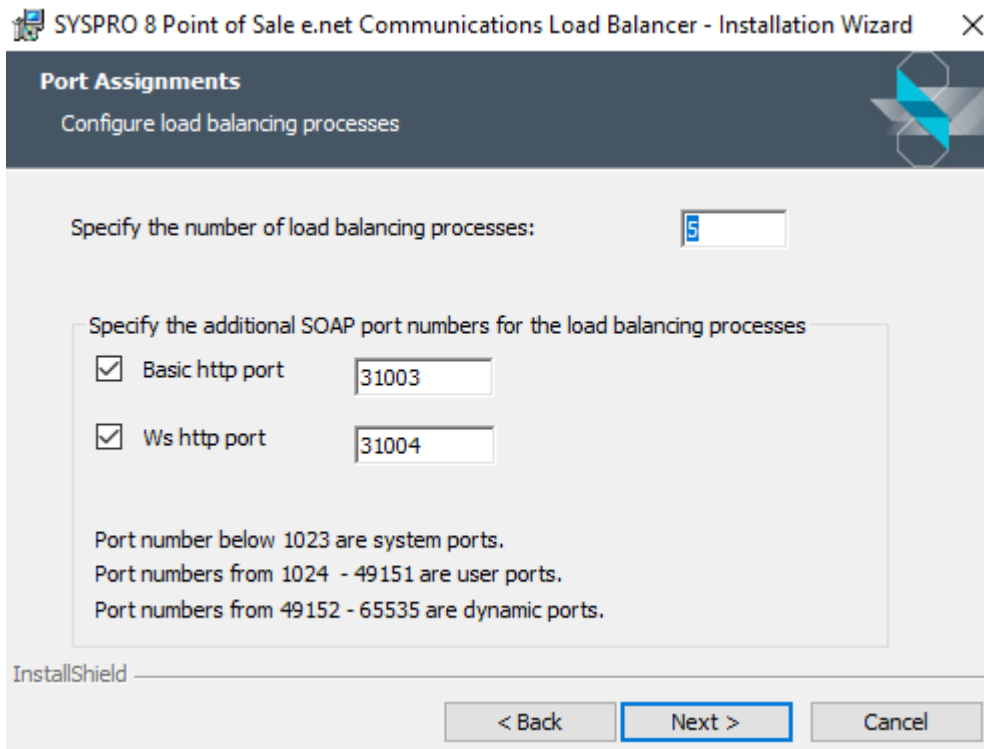
Port number below 1023 are system ports.  
Port numbers from 1024 - 49151 are user ports.  
Port numbers from 49152 - 65535 are dynamic ports.

InstallShield

< Back   **Next >**   Cancel

4. You need to configure your **Communication Ports**.
  - a) Enter or accept the **Service Soap Port** and **Service Rest Port**.
  - b) Select to **Add SOAP port to firewall**.
  - c) Select **Next >** to continue.

The **Port Assignments** window is displayed.



**Port Assignments**  
Configure load balancing processes

Specify the number of load balancing processes:

Specify the additional SOAP port numbers for the load balancing processes

<input checked="" type="checkbox"/> Basic http port	<input type="text" value="31003"/>
<input checked="" type="checkbox"/> Ws http port	<input type="text" value="31004"/>

Port number below 1023 are system ports.  
Port numbers from 1024 - 49151 are user ports.  
Port numbers from 49152 - 65535 are dynamic ports.

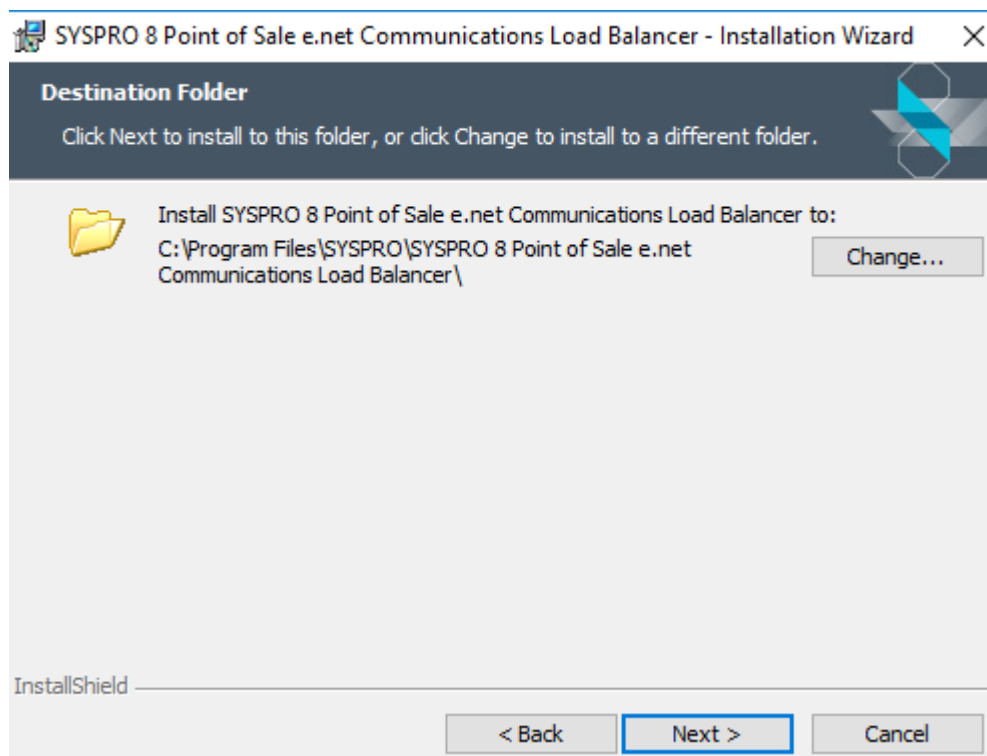
InstallShield

< Back   **Next >**   Cancel

5. Configure the load balancing processes.

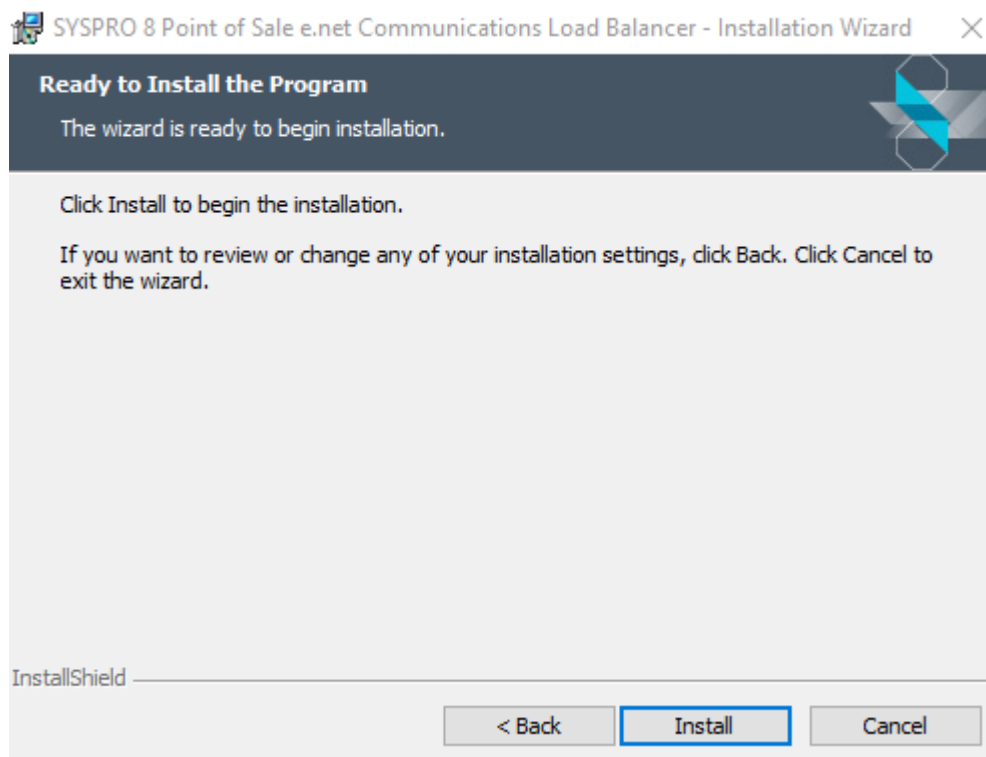
- a) Specify the number of load balancing processes.
- b) Specify the additional SOAP port number for the load balancing processes.
- c) Select **Next >** to continue.

The **Destination Folder** window is displayed.



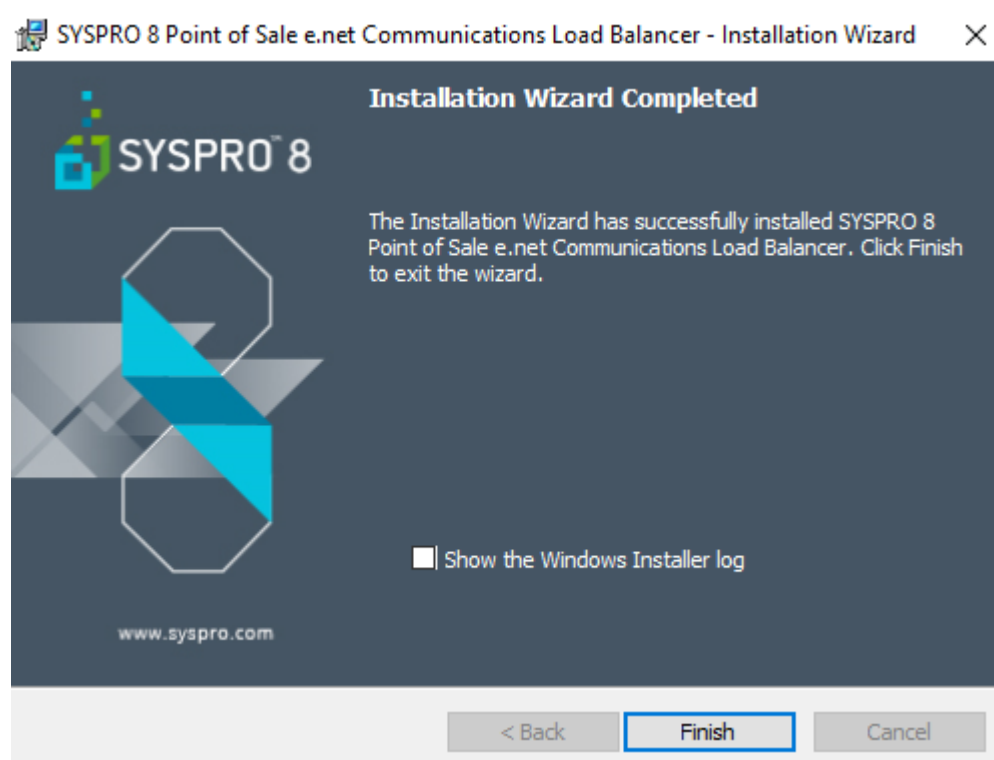
6. Select the folder you want to install the **SYSPRO 8 Point of Sale e.net Communications Load Balancer** to.
  - a) You can accept the default folder or you can change the installation path by selecting **Change....**
  - b) Select **Next >** to continue.

The **Ready to Install the Program** window is displayed.



7. Select **Install**.

The **Installation Wizard Completed** window is displayed.



8. Select **Finish**.

You are now ready to install **SYSPRO 8 Point of Sale Offline**.

## Installing SYSPRO 8 Point of Sale Offline

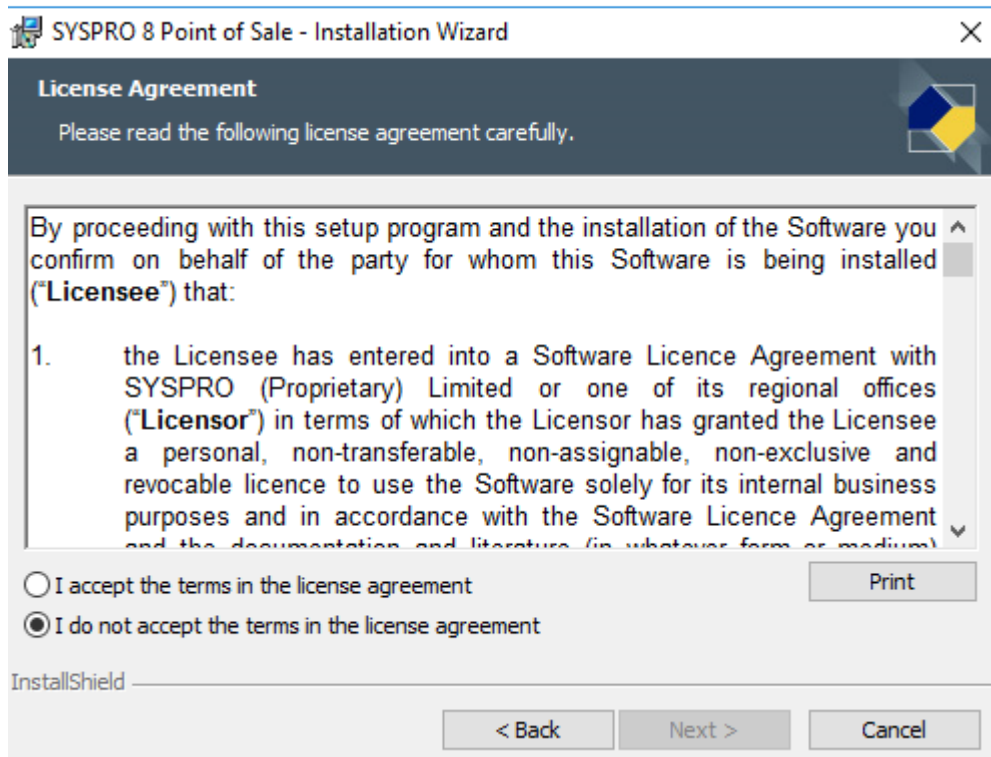
The following steps describe how to install SYSPRO 8 Point of Sale in an offline environment.

You must have installed:

- Microsoft .NET Framework 4.5
  - SYSPRO 8 Runtime
  - SYSPRO Avanti Initialization Service
  - SYSPRO 8 Point of Sale Offline Foundation
  - SYSPRO 8 Point of Sale e.net Communications Service
  - SYSPRO 8 Online
  - SYSPRO 8 Point of Sale Online
  - Added a branch and user in SYSPRO Point of Sale Online.
1. Run the **SYSPRO Point of Sale** autorun.exe program and select to install SYSPRO 8 Point of Sale.  
The **Welcome to the Installation Wizard for SYSPRO 8 Point of Sale** window is displayed.

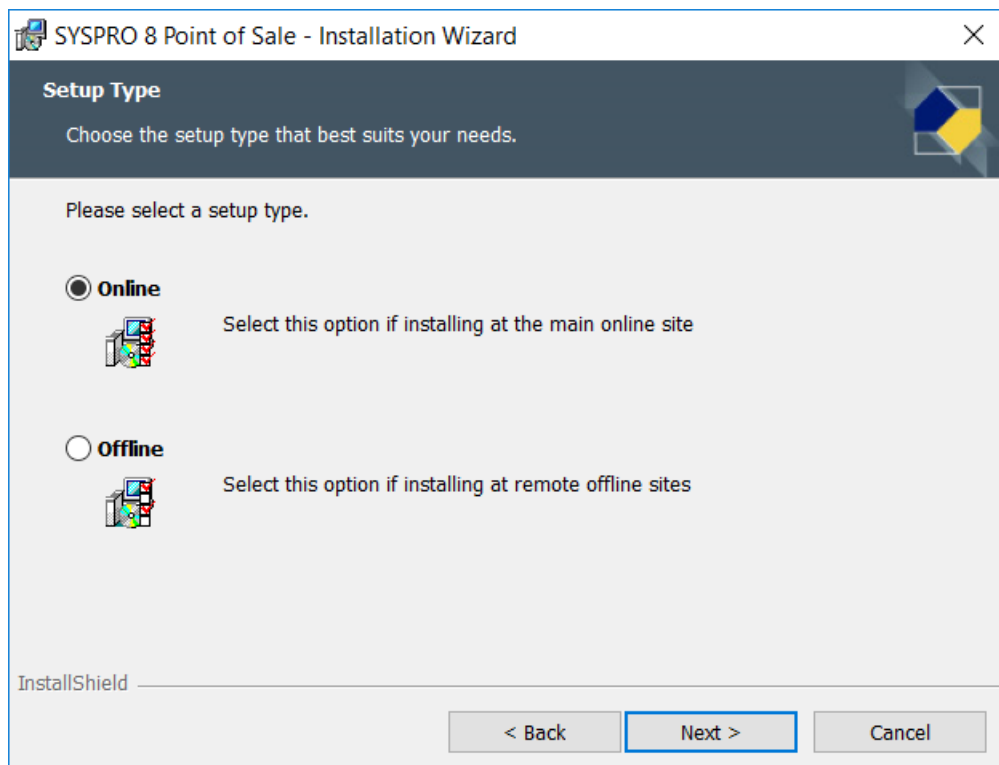


2. Select **Next >** to continue.  
The **License Agreement** window is displayed.



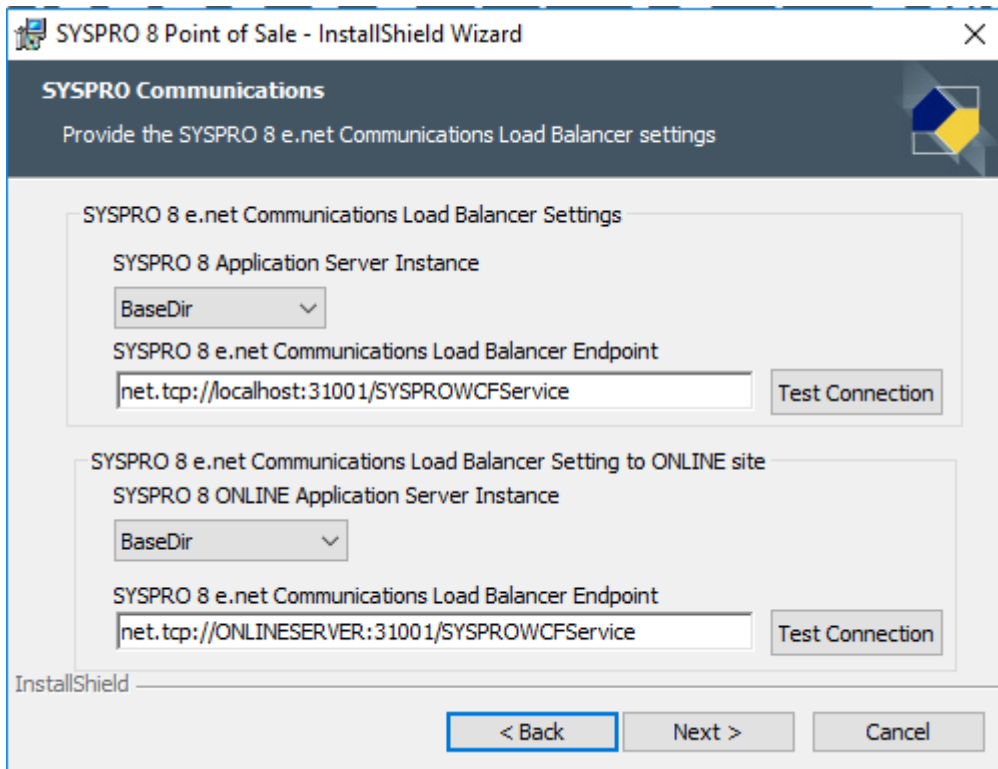
3. Accept the terms of the agreement.
  - a) Read/Print the license agreement.
  - b) Select **I accept the terms in the license agreement**.
  - c) Select **Next >**.

The **The Setup Type** window is displayed.



4. Select **Offline** and then **Next >** to continue.

The **SYSPRO Communications** window is displayed.

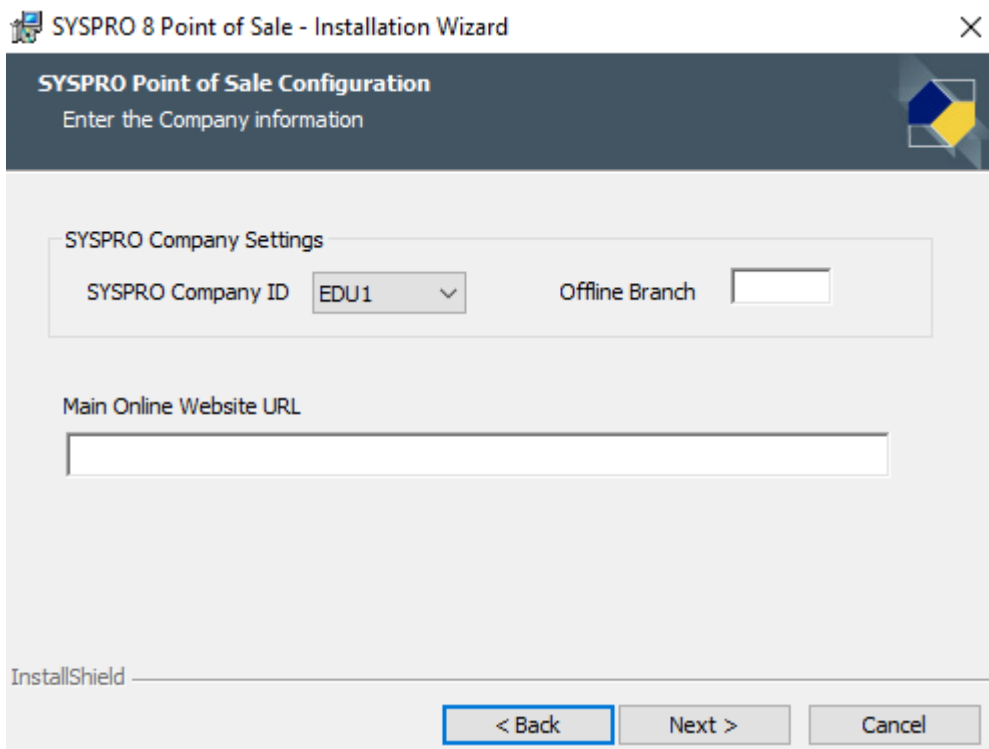


5. Enter the required **SYSPRO 8 Communications Load Balancer** settings.
  - a) Accept or change the base directory for the **SYSPRO 8 Application Server Instance**.
  - b) Enter the URL for **SYSPRO 8 e.net Communications Load Balancer**.

If the **Test Connection** does not connect, you need to sort out the problem before continuing.
  - c) Provide the **SYSPRO 8 e.net Communications Load Balancer Setting to the ONLINE site**.
  - d) Accept or change the base directory for the **SYSPRO 8 Application Server Instance**.
  - e) Provide the **SYSPRO 8 e.net Communications Load Balancer Endpoint** URL and then test the connection.

If the **Test Connection** does not connect you need to sort out the problem before continuing.
6. Select **Next >** to continue.

The **SYSPRO Point of Sale Configuration** window is displayed.



**SYSPRO Point of Sale Configuration**  
Enter the Company information

SYSPRO Company Settings

SYSPRO Company ID:  Offline Branch:

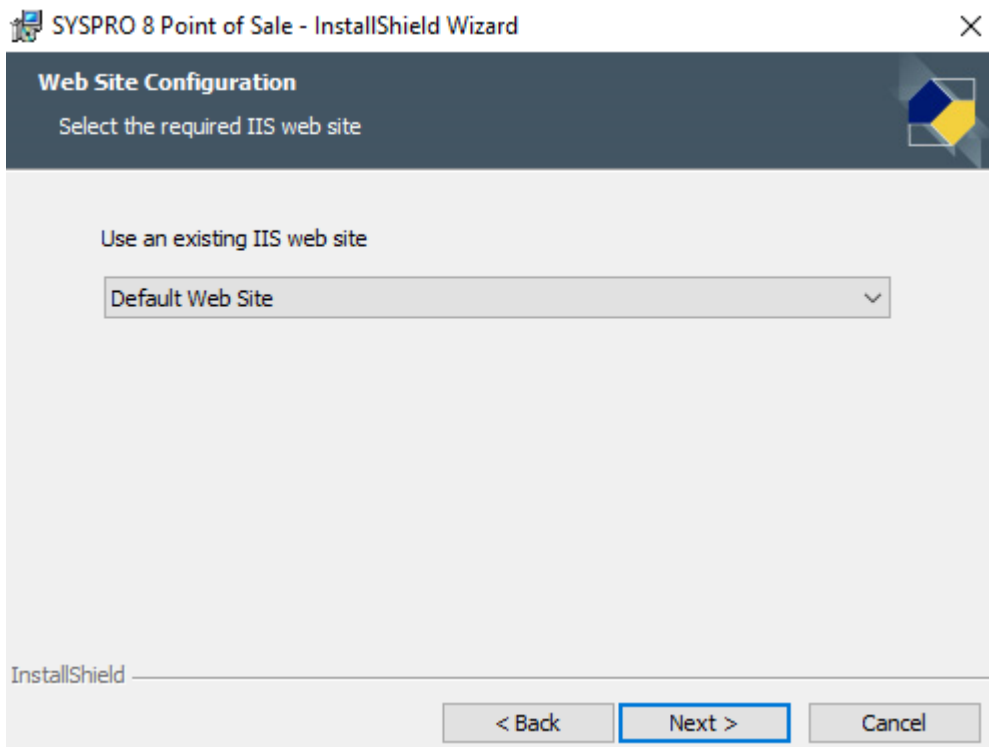
Main Online Website URL:

InstallShield

< Back Next > Cancel

7. Select the **SYSPRO Company Settings**.
  - a) Using the drop down select the **SYSPRO Company ID**.
  - b) Enter the **Offline Branch** code.
  - c) Enter the **Main Online Website URL**.
8. Select **Next >** to continue.

The **Web Site Configuration** window is displayed.



**Web Site Configuration**  
Select the required IIS web site

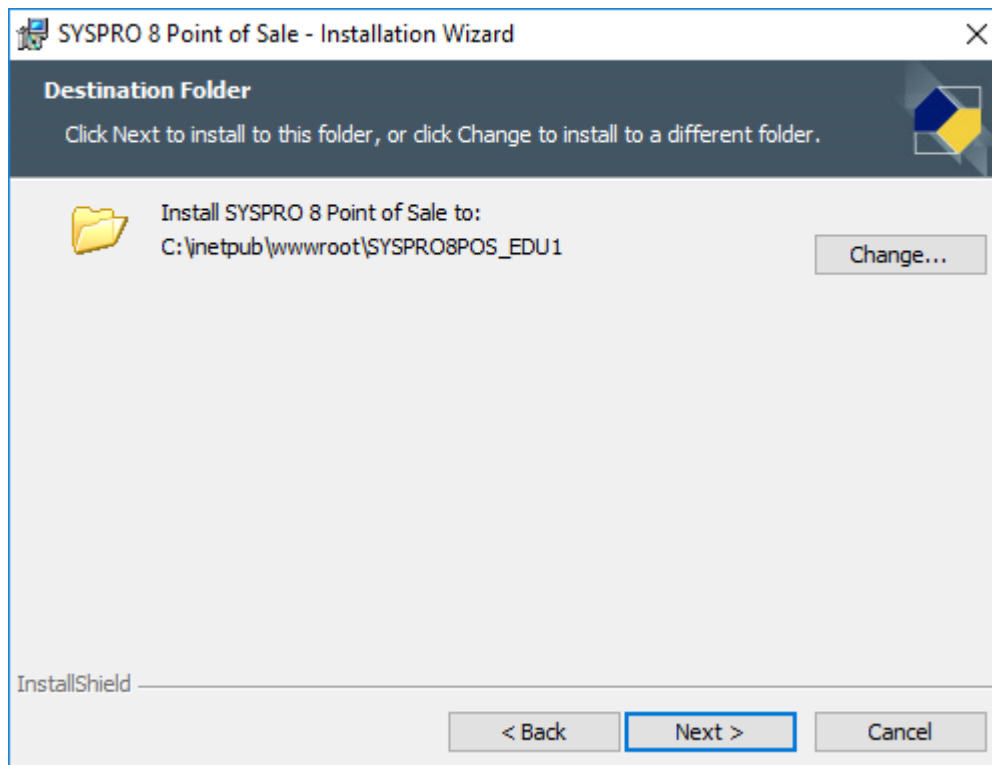
Use an existing IIS web site

InstallShield

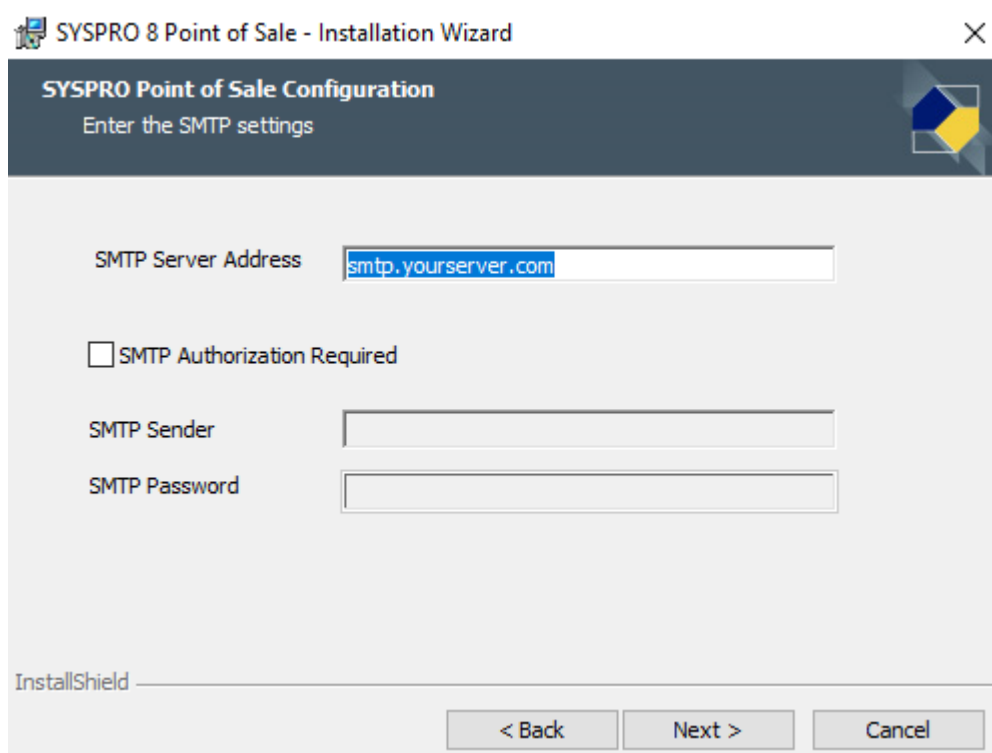
< Back Next > Cancel

9. Select the required IIS web site.

- a) Using the drop down list select an existing IIS web site.
10. Select **Next >**.
- The **Destination Folder** window is displayed.



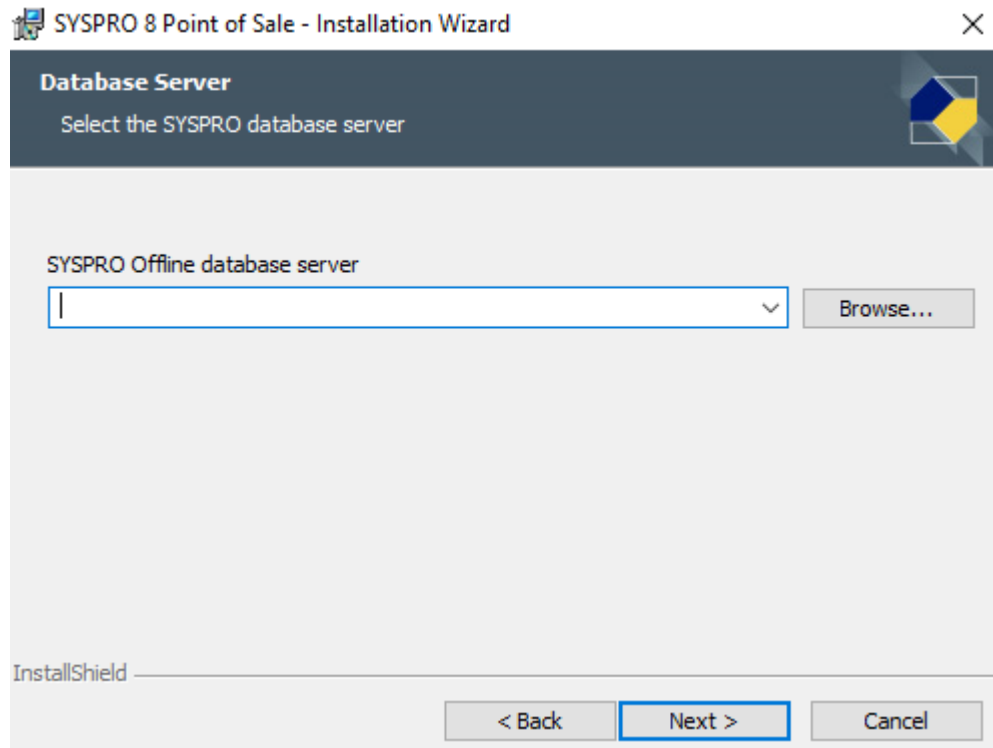
11. Accept or change where you want to install SYSPRO8 Point of Sale to.
12. Select **Next >** to continue.
- The **SYSPRO Point of Sale Configuration** window is displayed.





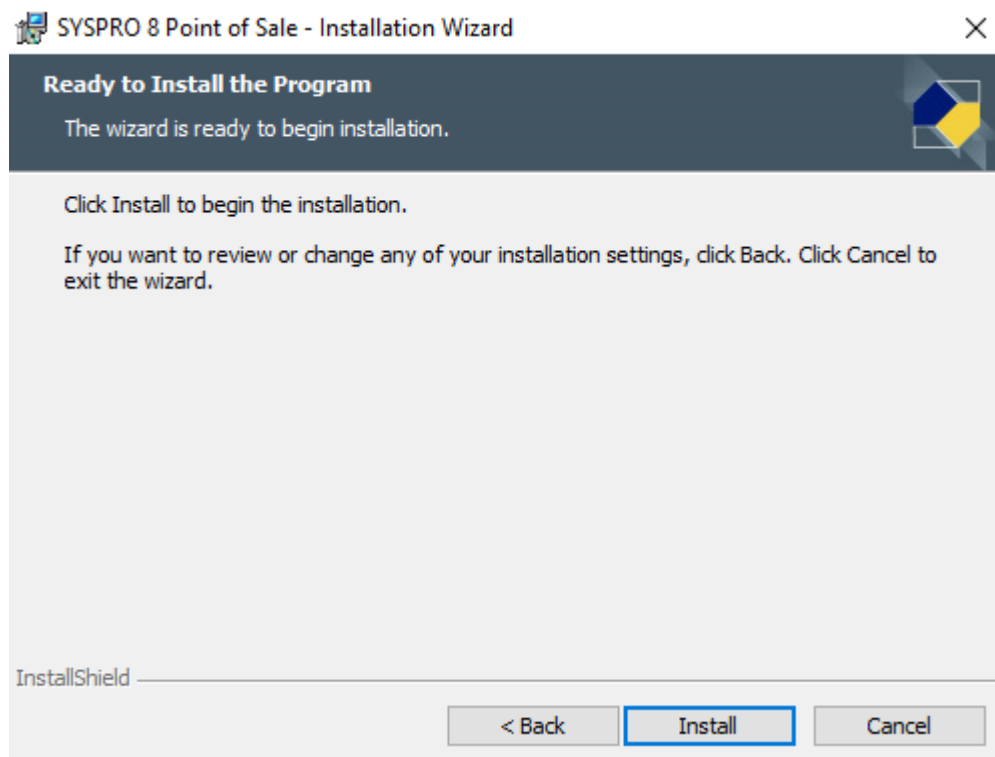
13. Enter the **SMTP Settings**.
  - a) Enter the **SMTP Server Address**.
  - b) If authorization is required, select **SMTP Authorization Required**.
  - c) Enter the **SMTP Sender**.
  - d) Enter the **SMTP Password**.
  - e) Select **Next >** to continue.

The **Database Server** window is displayed.



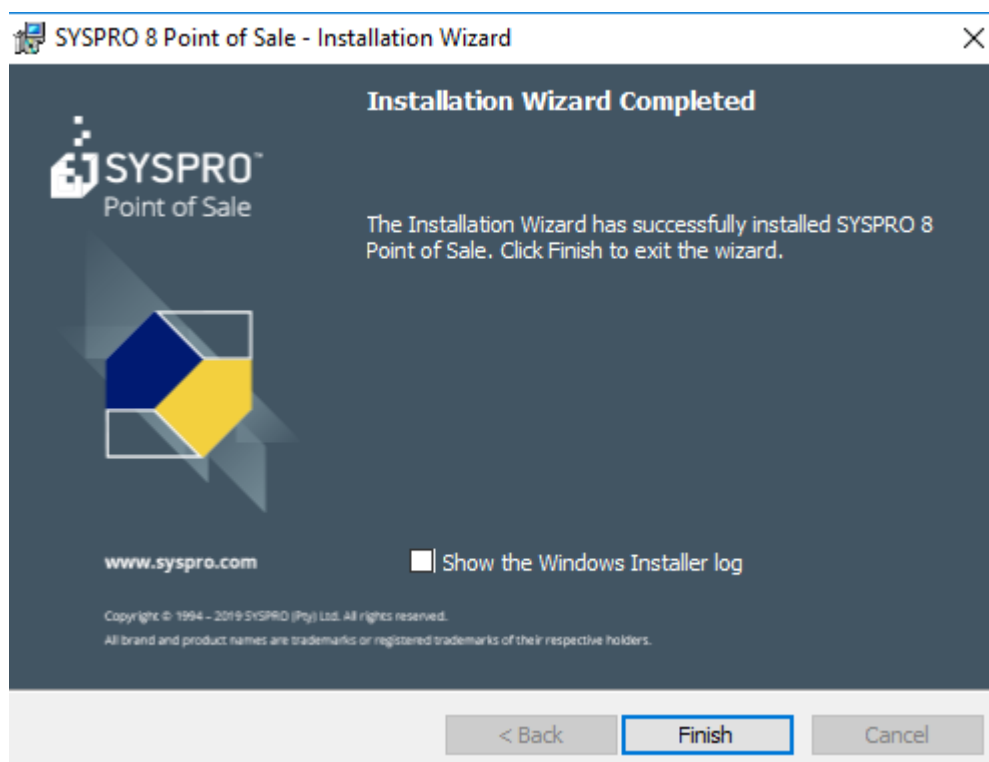
14. Using the drop down list select the name of the **SYSPRO Database Server**.
  - a) You can also **Browse** for the **Database Server Name**.
  - b) Select **Next >** to continue.

The **Ready to Install the Program** window is displayed.



15. Select **Install**.

The **Installation Wizard Completed** window is displayed.



16. Select **Finish**.

You now need to install the **SYSPRO 8 Point of Sale Services**.



# Epilogue

## Copyright

All rights reserved. No part of this document may be copied, photocopied, or reproduced in any form or by any means without permission in writing from Syspro Ltd. SYSPRO is a trademark of Syspro Ltd. All other trademarks, service marks, products or services are trademarks or registered trademarks of their respective holders.

Syspro Ltd reserves the right to alter the contents of this document without prior notice. While every effort is made to ensure that the contents of this document are correct, no liability whatsoever will be accepted for any errors or omissions.

This document is a copyright work and is protected by local copyright, civil and criminal law and international treaty. This document further contains secret, confidential and proprietary information belonging to Syspro Ltd. It is disclosed solely for the purposes of it being used in the context of the licensed use of the Syspro Ltd computer software products to which it relates. Such copyright works and information may not be published, disseminated, broadcast, copied or used for any other purpose. This document and all portions thereof included, but without limitation, copyright, trade secret and other intellectual property rights subsisting therein and relating thereto, are and shall at all times remain the sole property of Syspro Ltd.

## Comment Sheet

Please send us your comments to help improve the standard of the workbooks. All emails can be sent to [education@syspro.com](mailto:education@syspro.com).