Upgrading to SYSPRO Point of Sale 8

Upgrade Guide | Point of Sale 8

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SYSPRO™ LearnIt

Contents

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

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

SYSPRO has 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 for 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.
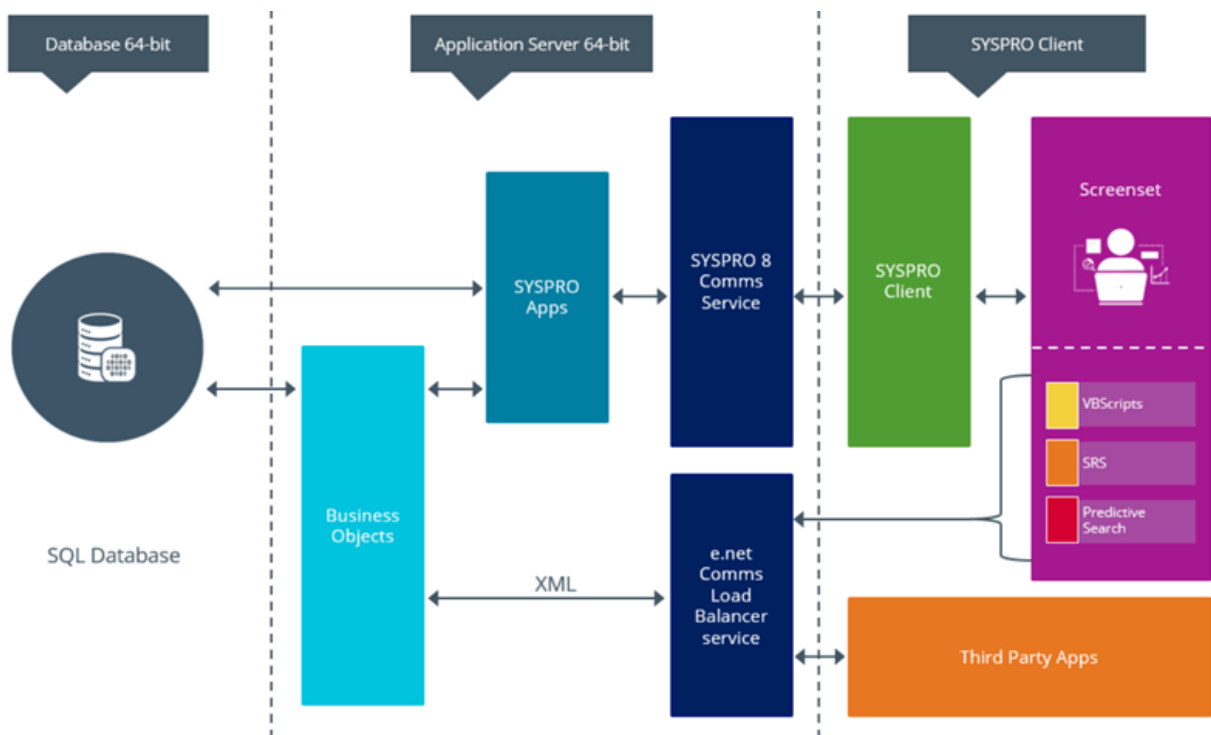
Business Objects

Custom Form Query

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

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:	Directly referencing Encore.dll using COM/DCOM limits applications to 32-bit as well as SYSPRO's future expandability. 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.
Replaced by:	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. **Additional benefits**: - No limitation of being tied to a specific technology (e.g. 32-bit, etc.) - The system is more robust as any failures don't prevent the system from continuing on the other threads. - The system is multi-threaded and has a significantly improved performance under load. - Third party applications can reside on any server/computer that has access to the endpoint.

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 R2More 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

	Performance	Scalability	Availability	Data Integrity	Security	Simplicity
Deployment and installation			✔	✔		✔

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

Description of change:	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.
	This logic was superseded several versions ago, by allowing you to use the simpler CallBo function call to invoke e.net business objects.
	So, if you have previously used the enetguid variable, you need to recode your VBScript to use the CallBo function.
Reason:	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.

POS TRANSACTIONS
- 13/09/2011 - Cash 2 000
- 13/09/2011 - Debit Card 3 000
- 13/09/2011 - Debit Card 1 000

End Of Day Posting

- Trading
- 2 000
- 3 000
- 1 000
- **EOD**
- (- 2 000) Cash
- (- 4 000) Cards

Dummy/Transactional Bank

Cash Clearing GL

- 6 000
- (-1 800)
- (-4 000)
- Balance Remaining
- 200

- Cash 1 800
- Debit Card 4 000

Bank(against payment type)

Terminal Slip
13/09/2011
Transaction Summary
(2) Debit Card 4 000

Bank Statement
- Cash 1 800
- Debit Card 4 000

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 **Validate End Of Day** 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 **Transactional Bank** to **Overs\Unders GL** the full amount of all payments taken during the **Take Payment** process.
3	MOVE ALL PAYMENTS FROM CASH CLEARING BANK TO CASH CLEARING GL	Blank		
	DEPOSIT DYNAMIC CASH DEPOSITS	Error Present	SysproDynamicCashDepositGlYear SysproDynamicCashDepositGlPeriod SysproDynamicCashDepositGlJournal	This will do a general ledger transfer from **Overs\Unders GL** account to **ATM** and **Petty Cash GL** accounts if amounts are specified.
4	DEPOSIT DYNAMIC CASH DEPOSITS	Blank		This deposits all payment codes with a payment type of **Cash** and all payment codes with a posting group of **Cash** as one summarized total
	DEPOSIT CASH AND PAYMENT CODES GROUPED WITH CASH	Error Present	SysproCashGroupDepositBank SysproCashGroupDepositTrnYear SysproCashGroupDepositTrnMonth SysproCashGroupDepositJournal	Currently only payment types of **Check** are allowed to be grouped with payment types of **Cash**.
5	DEPOSIT CASH AND PAYMENT CODES GROUPED WITH CASH	Blank		This will deposit all payment codes which are of the payment type **Check** only if the payment code is not grouped with the payment type **Cash**.
	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 **EFT** minus the actual amount.
	DEPOSIT UNACCOUNTED EFT	Error Present	SysproUnAccountedEftDepositGlYear	
			SysproUnAccountedEftDepositGlPeriod	
			SysproUnAccountedEftDepositGlJournal	
9	DEPOSIT UNACCOUNTED EFT	Blank		This will post a deposit into the cashbook bank for each payment code with the payment type **EFT** 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 **Completed** and **PostingStatus** to **COMPLETE**.

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.

All the store operator cash-ups have been completed in the system. It is now time to do the end of day posting to SYSPRO. You are required to firstly load 1 complete and saved operator cash-up and specify how the cash is to be distributed and save the end of day.

Note: The total in the end of day has to balance with the cash-up total and also match up to the terminal slips as this should replicate what will be on your bank statement.

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.

   Select the **Admin** checkbox.

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) Balance out the total in cash-ups column to one of the enabled options.

   Allocate the total cash value against each of the currency denominations until there is a difference of **0** in the **Total Difference** field in the **EOD totals** group.

4. 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.

ⓘ Enter all the credit and debit card values to balance with the cash-ups. Remember to print the end of day report.

    ☑ **Note:** The total in the end of day has to balance with the cash-up total and also match up to the terminal slips as this should replicate what will be on your bank statement.

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.

   Select **Credit Card** from the **Payment code** field.

   Enter *1* in the **Terminal** field.

   Enter *21* in the **Batch** field.

   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.

ⓘ It is the 1st of a new month. Petty cash has been requested for the branch. Post the end of day values to accommodate this new request to allocate an amount to petty cash. You are required to post this **End of Day** using the last calendar day from the previous month.

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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.

ⓘ Post the 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**.
        Accept the current 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.
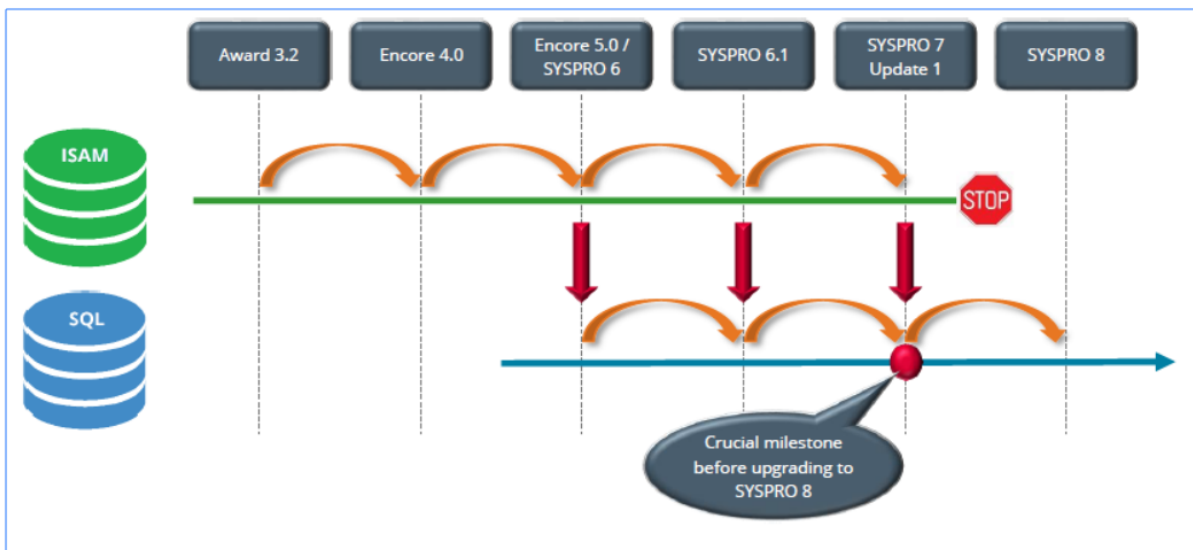
Sample Scenario 1:

- 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					
Current SYSPRO Version	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
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					
Current SYSPRO Version	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
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

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	√	√	√

Check List to upgrade Point of Sale Version 7 to Version 8

Upgrading online server	
1.	Uninstall Point of Sale Services
2.	Uninstall Point of Sale Print Service
3.	Delete C:\Program Files (x86)\SYSPRO\SYSPRO Point of Sale Services folder as it may contain old logs
4.	Uninstall SYSPRO WCF Service
5.	Delete C:\Program Files (x86)\SYSPRO\SYSPRO WCF Service folder as it is empty
6.	Uninstall SYSPRO Communications Service

Upgrading online server	
7.	Uninstall Point of Sale
8.	Delete C:\inetpub\wwwroot\SYSPROPOS_EDU1
9.	Remove all PoS replication Subscriptions
10.	Remove all PoS replication Publications
11.	Disable publishing and distribution
12.	Run SYSPRO 8 upgrade
13.	Install WCF load balancer - *\\sysjhbstore\Temp\AutomatedBuilds\2018.RC\SYSPRO.8.enet.Communications*
14.	Install Point of Sale
15.	Install PoS services - *\\sysjhbstore\Temp\AutomatedBuilds\2018.GA1\SYSPRO.8.Point.of.Sale.Services*
16.	Sync service copied components
17.	Open Point of Sale and let it upgrade its databases
18.	Logged in and clicked Verify Distribution
19.	Then Create Publications

Offline update	
1.	Uninstall PoS Services
2.	Uninstall SYSPRO WCF
3.	Uninstall Point of Sale
4.	Uninstall SYSPRO 7 Foundation
5.	Install SYSPRO 8 Foundation
6.	Install WCF load balancer
7.	Install Point of Sale
8.	Install PoS sync service
9.	Check first sync ran successful
10.	Open Point of Sale to upgrade db

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.

Endpoint Address

Please provide the Endpoint Address for the SYSPRO Deployment Support Service

Endpoint Address - Support Service

Enter Deployment Service Endpoint Address

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.

Downloading the SYSPRO Deployment Service Install file...

Downloading the SYSPRO Deployment Service Install file...
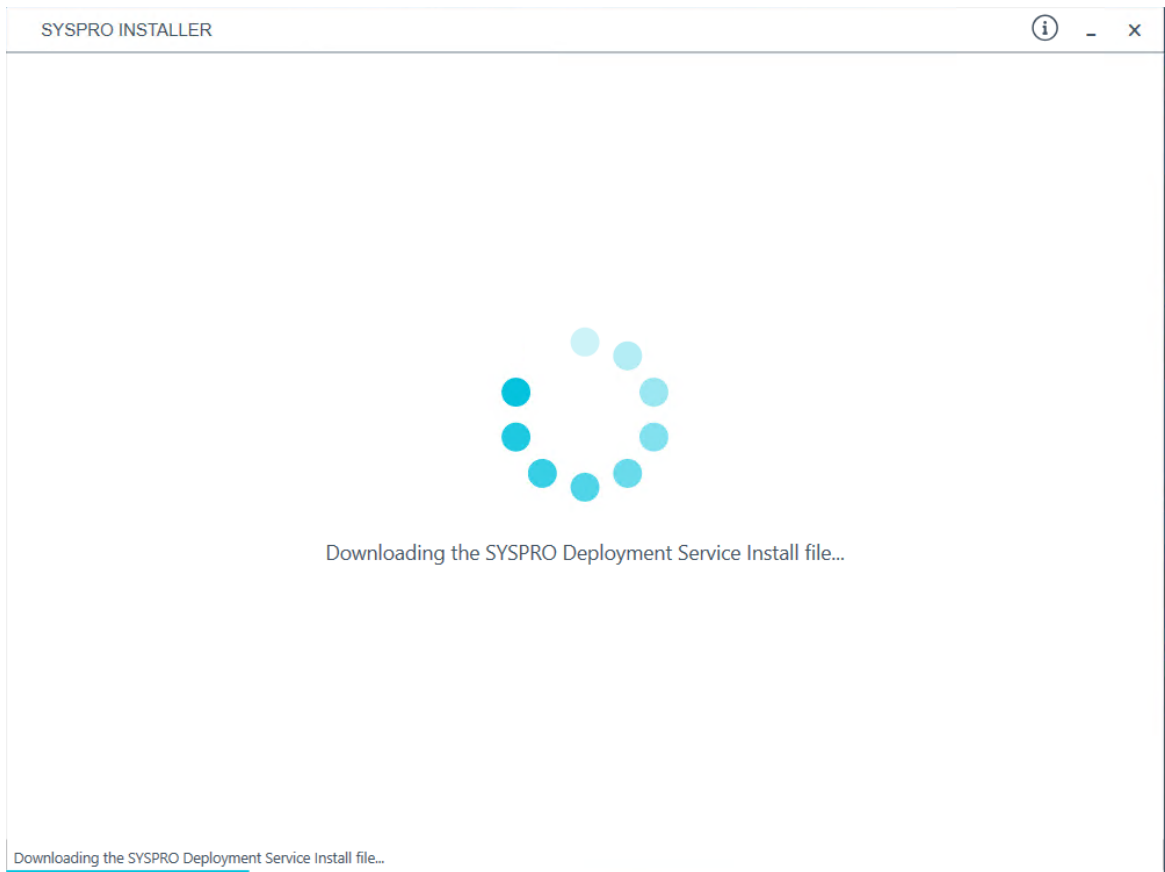
3. Once the **Deployment Service** has been installed the *Sign in window* is displayed.

SYSPRO INSTALLER

SYSPRO
Simplifying your Success

Sign in

Discover the Infinite Possibilities of SYSPRO 8

Please use your InfoZone credentials to Sign in.

Email

Enter your email address

Password

Enter your password

SIGN IN

Don't have InfoZone credentials?
Create an account

Version 1.0.0.37 [SUPPORT]

4. Enter you **InfoZone credentials** to sign in. Click **SIGN IN** to progress.

The next *Sign in* window is displayed.
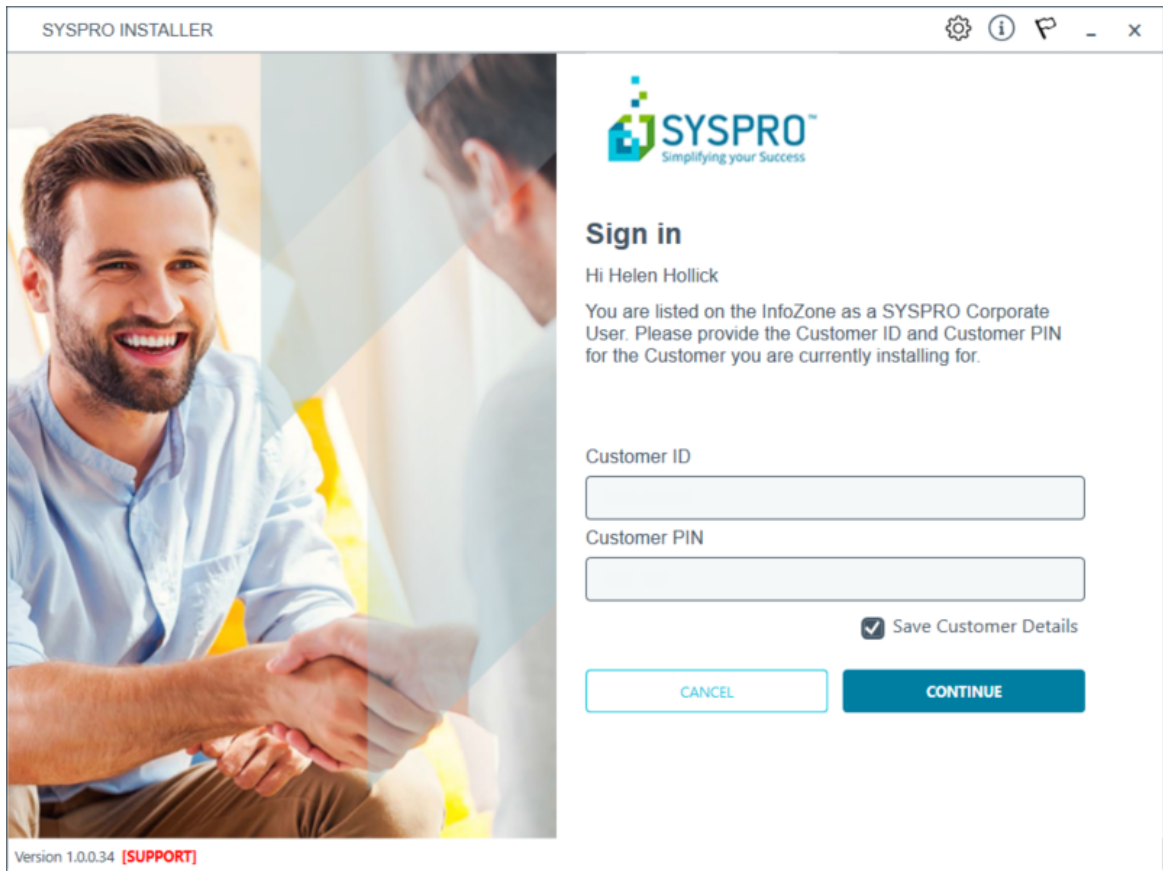
5. The **Customer ID** displayed. Enter the **Customer PIN** and click **CONTINUE**.

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.
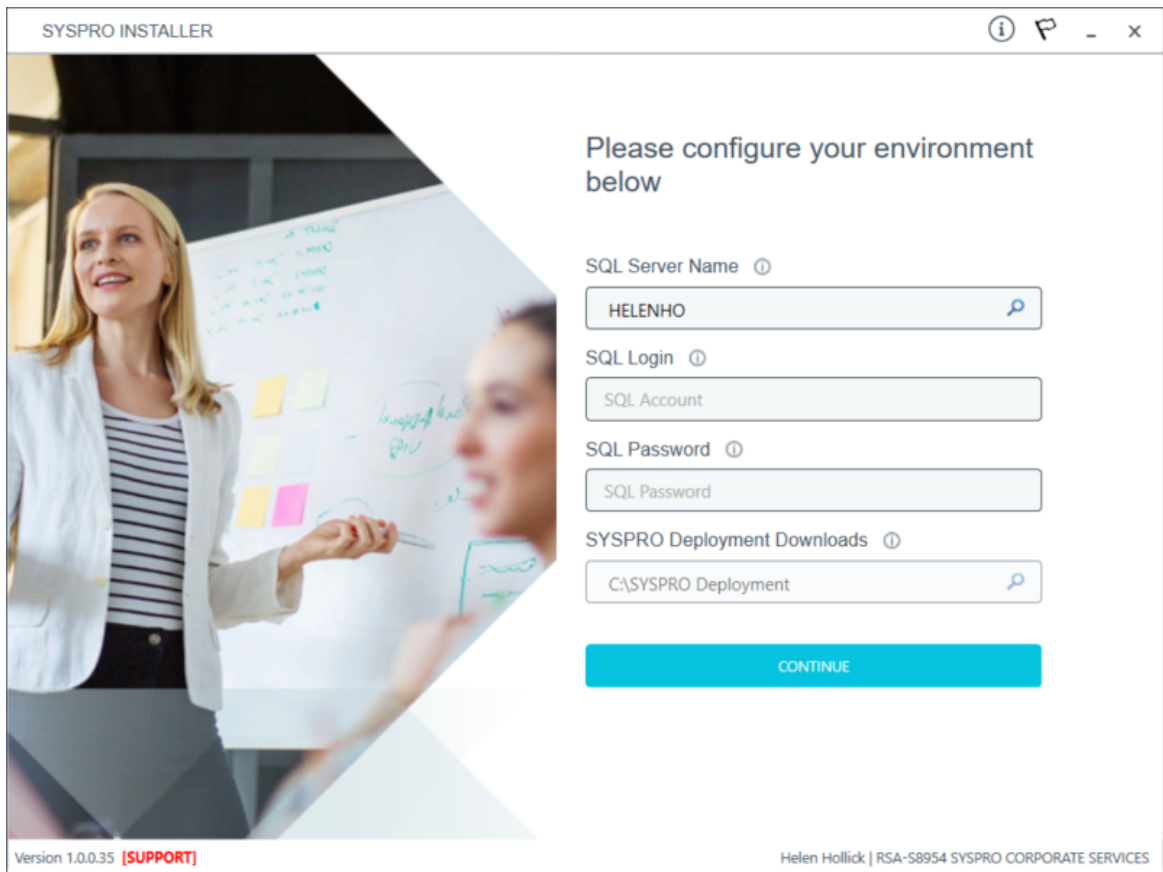
6. Configure your environment. Click **CONTINUE**.

   The *Install your software* window is installed.

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.
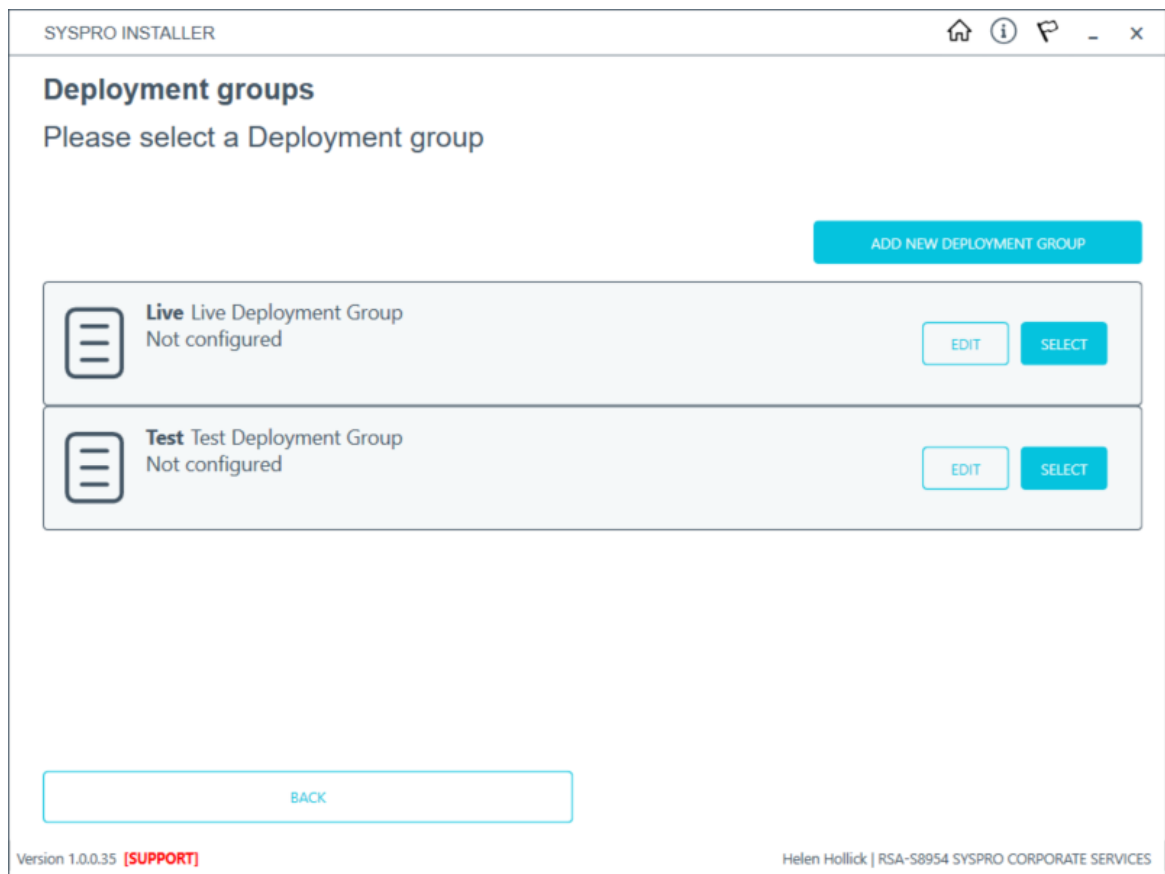
8. Click on **SELECT** against the **Deployment Group** you want to use.
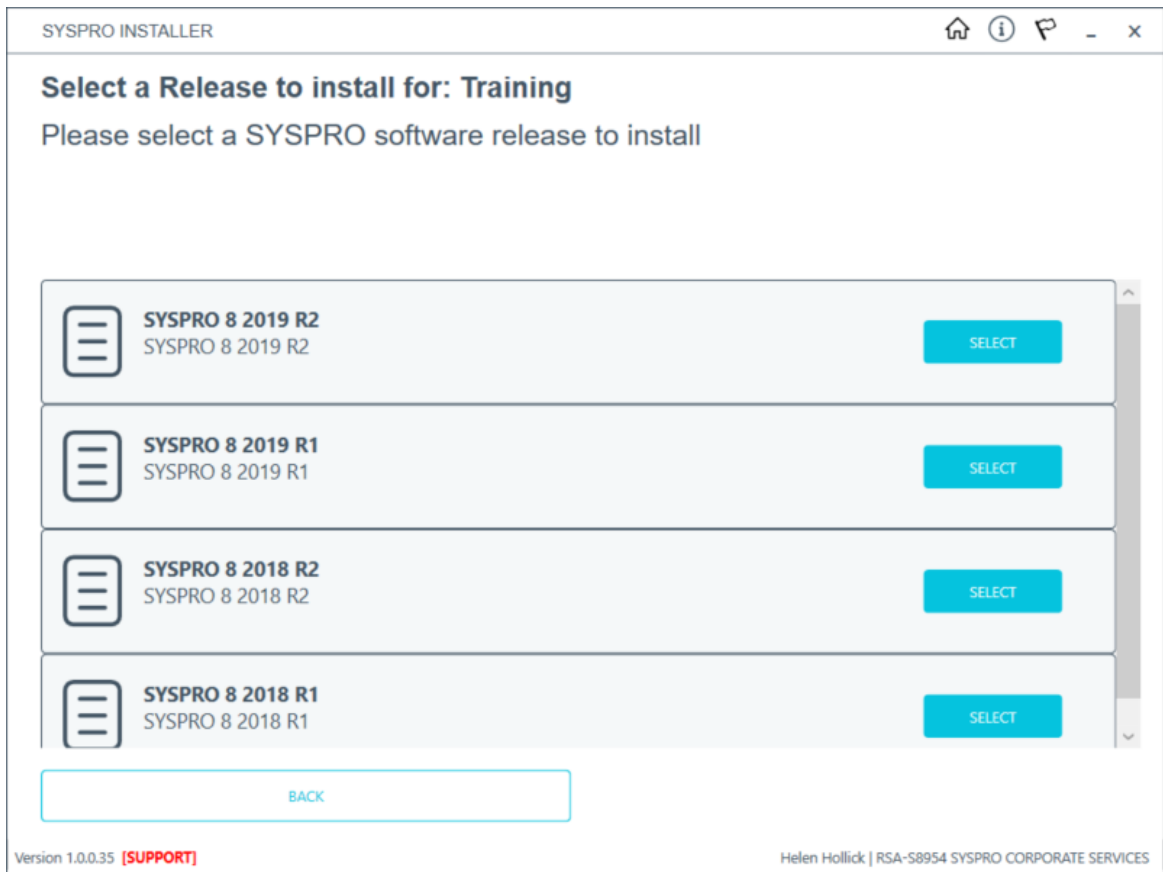
9. Select the release you want to install and click on **SELECT**.
    You need to select **SYSPRO Avanti Initialization service** as this is a prerequisite for Point of Sale.

    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

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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.

Review Product Parameters

Please review the selected Product parameters

⚠	SYSPRO 8	REVIEW
⚠	SYSPRO 8 Service Upgrade Manager	REVIEW
⚠	SYSPRO 8 e.net Communications Load Balancer	REVIEW
⚠	SYSPRO Avanti Initialization Service	REVIEW

BACK	CONTINUE

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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,

SYSPRO INSTALLER

Review Product Parameters
Please review the selected Product parameters

✓	SYSPRO 8	REVIEW
✓	SYSPRO 8 Service Upgrade Manager	REVIEW
✓	SYSPRO 8 e.net Communications Load Balancer	REVIEW
✓	SYSPRO Avanti Initialization Service	REVIEW

BACK   CONTINUE

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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:

1. 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");

2. 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;

3. 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;

4. 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;

5. 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;

6. 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

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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

✔ SYSPRO 8	REVIEW
✔ SYSPRO 8 Service Upgrade Manager	REVIEW
✔ SYSPRO 8 e.net Communications Load Balancer	REVIEW
✔ SYSPRO Avanti Initialization Service	REVIEW

BACK   BEGIN INSTALL

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15. Click on **BEGIN INSTALL**.

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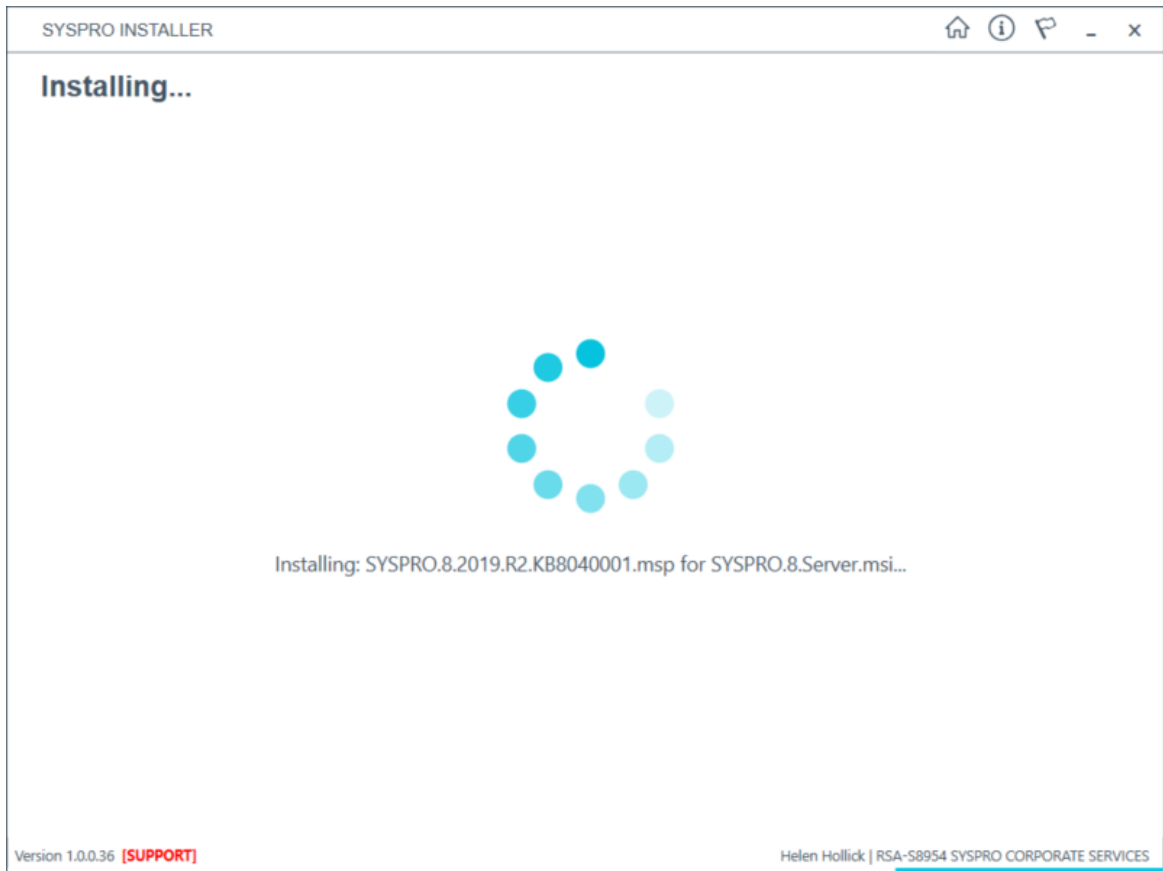
16. Once all the products have been installed you will see the *Install Complete* window displayed.

Install Complete

The following products were installed successfully

- ✓ SYSPRO 8
- ✓ SYSPRO 8 Service Upgrade Manager
- ✓ SYSPRO 8 e.net Communications Load Balancer
- ✓ SYSPRO Avanti Initialization Service

HOME

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

SYSPRO INSTALLER

Deployment groups

Please select a Deployment group

ADD NEW DEPLOYMENT GROUP

Train Training and Education
SYSPRO 8 2019 R2   HOTFIXES   EDIT   SELECT

Live Live Deployment Group
Not configured   EDIT   SELECT

Test Test Deployment Group
Not configured   EDIT   SELECT

BACK

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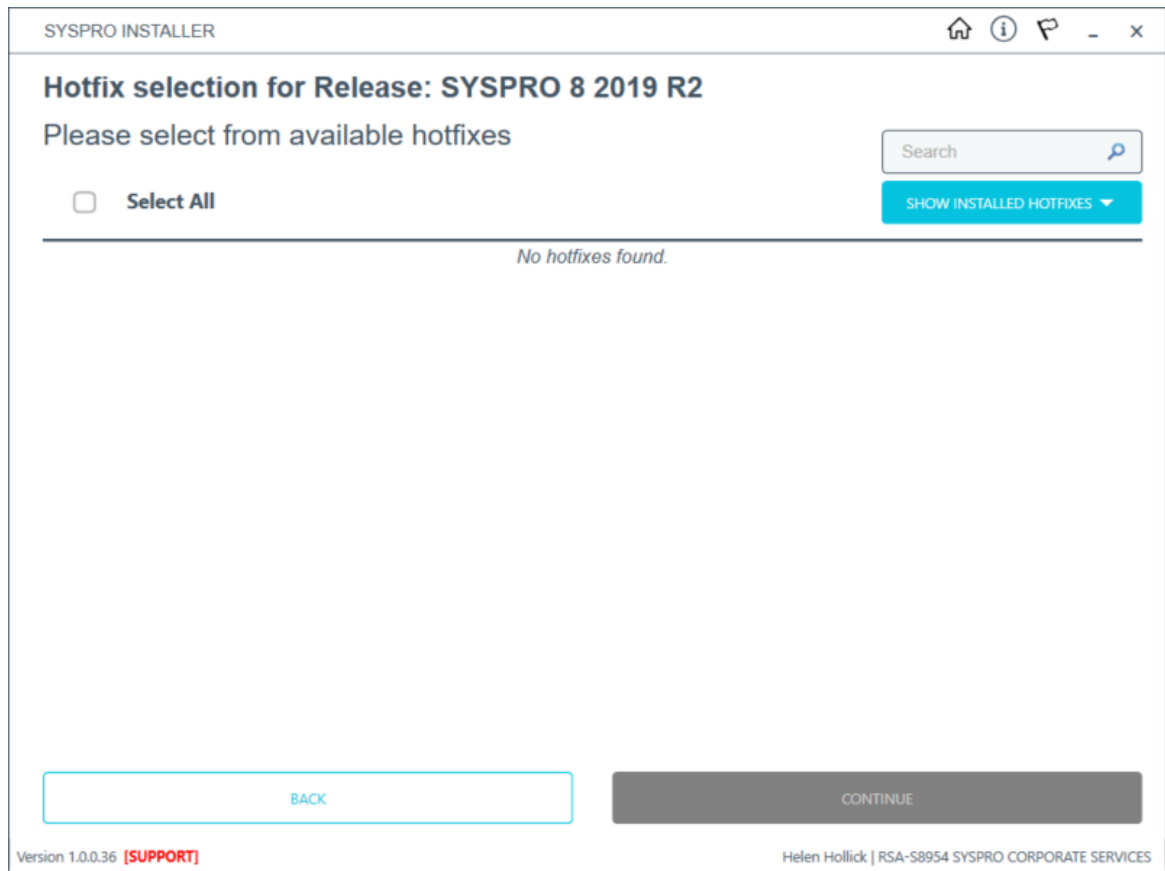
19. Once all the Hotfixes have been installed select ***BACK***.

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**.

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

The ***Conversion of Databases to SYSPRO 8 Format*** window is displayed.
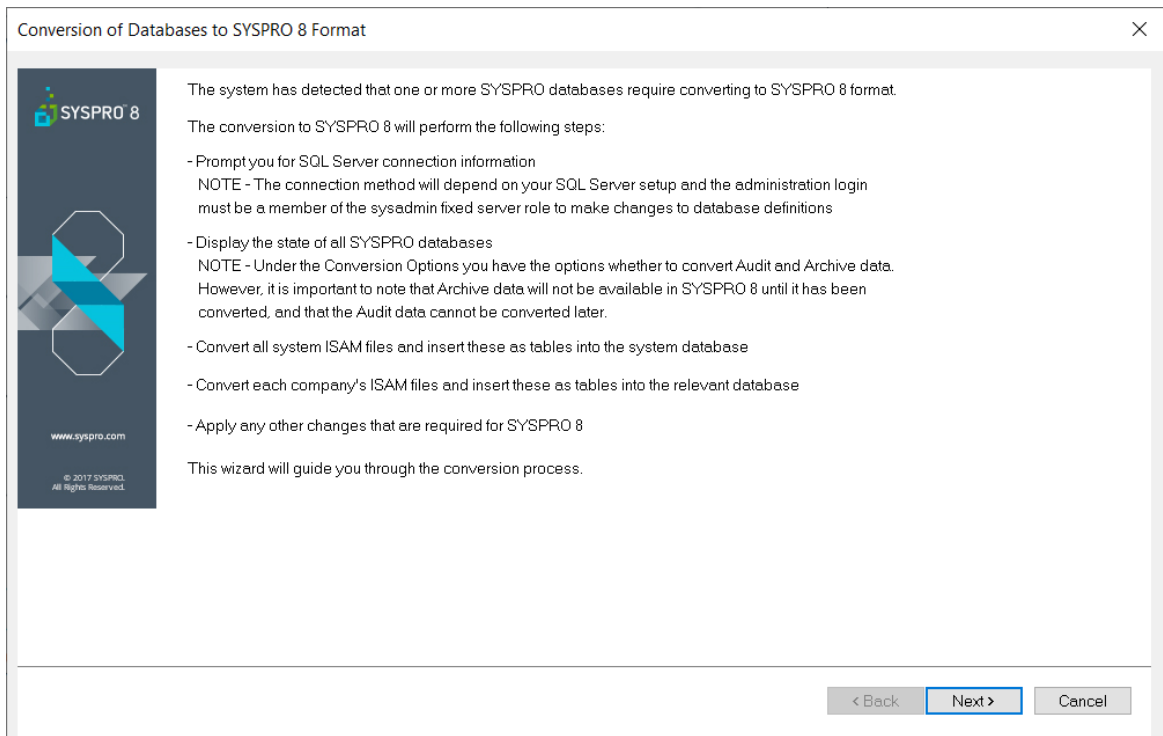
2. Select **Next >** to continue.

   The *Conversion of Databases to SYSPRO 8 Format* window is displayed.
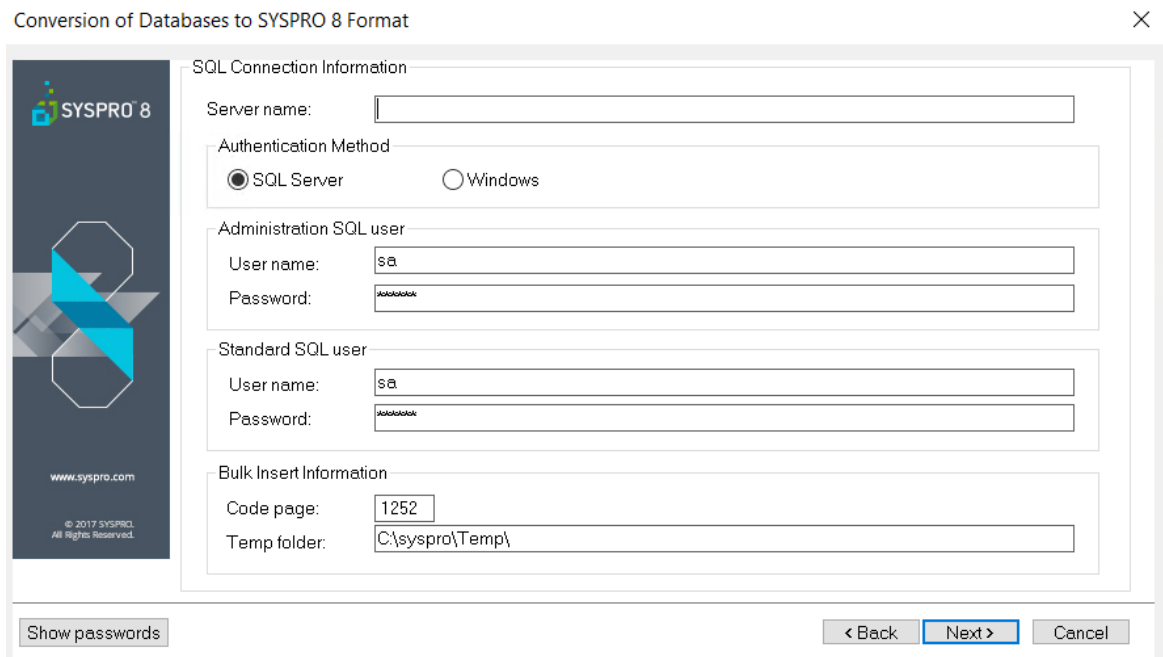
3. Enter the required information and select **Next >**.

   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.

Converting Database: SysprodbEdu

Conversion Phase	Time	
Creating tables in system database	11:07	
Converting system data to SQL	11:07	

Processing

AdmSystemControl	Admin System Control	

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

Conversion of Databases to SYSPRO 8 Format   ✕

⚠ All SYSPRO databases are now converted to SYSPRO 8 and are
   ready to use. There were some warnings issued. Please view
   these in the conversion log.

   Press OK to view conversion log:
   SETTINGS\SYSPRO8_Conversion_Log.txt

                                          OK   Cancel

8. Select **OK** to complete the install.

How to download the SYSPRO Point of Sale Autorun

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

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

    The *SYSPRO Installer 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 *SYSPRO Installer Sign in* window is displayed.

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**.
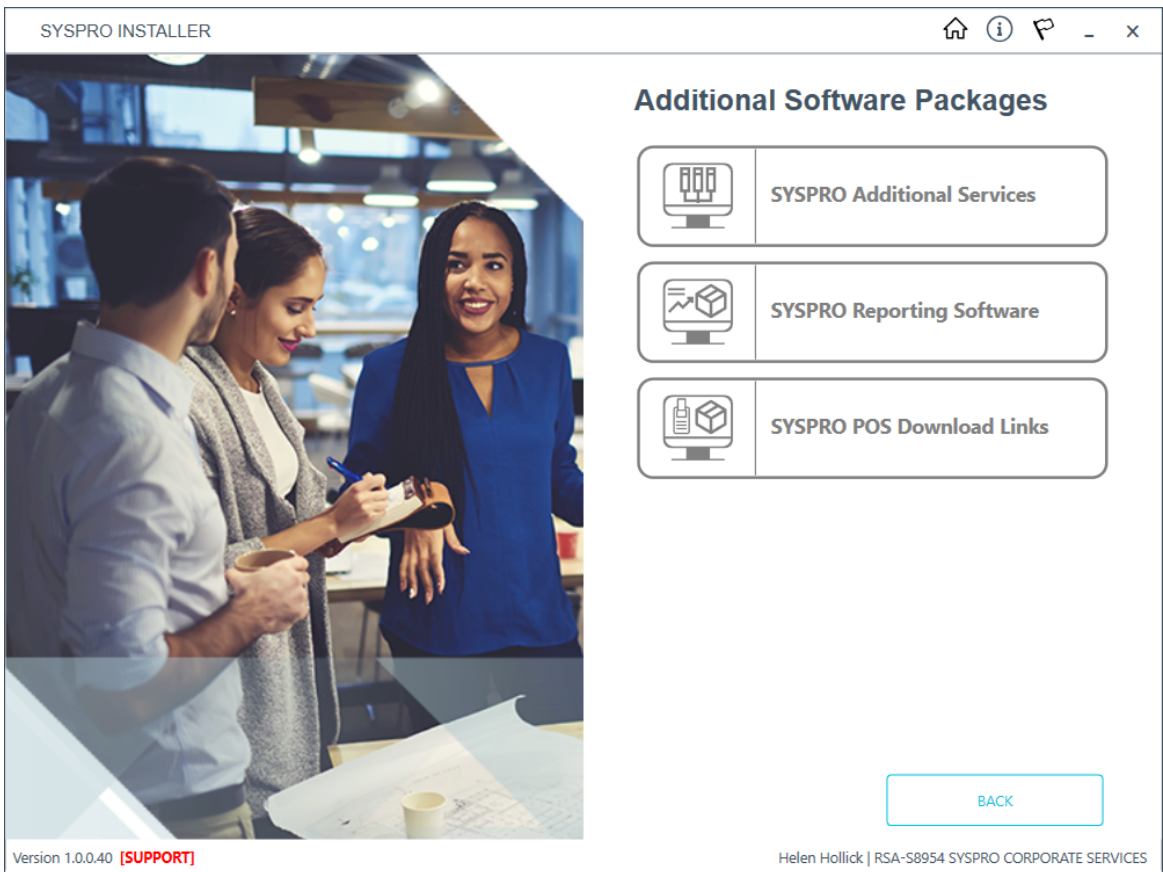
4. From the **SYSPRO Installer** home screen select **SYSPRO Additional Software**.

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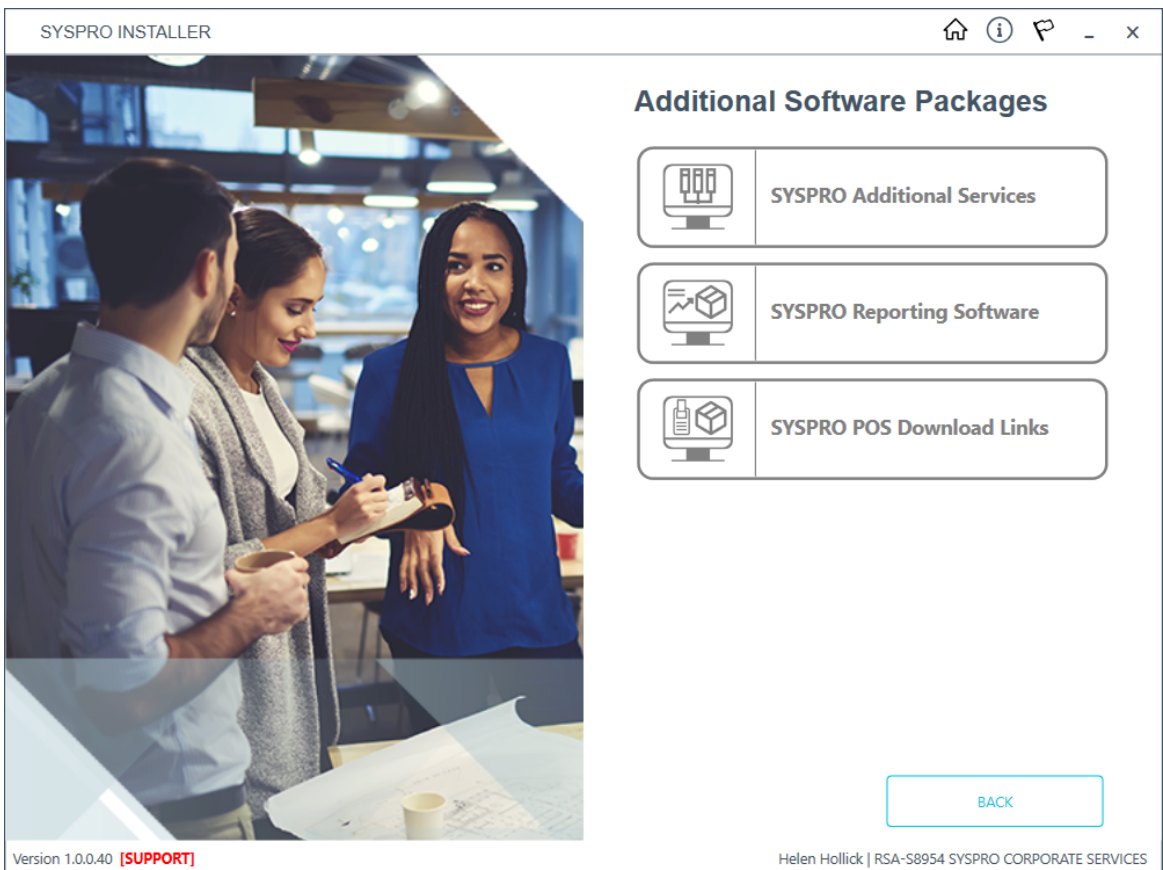
The *Additional Software Packages* window provides you with a list of additional software available to install from the SYSPRO Installer application.

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

    The *SYSPRO Point of Sale Download link* window is displayed.
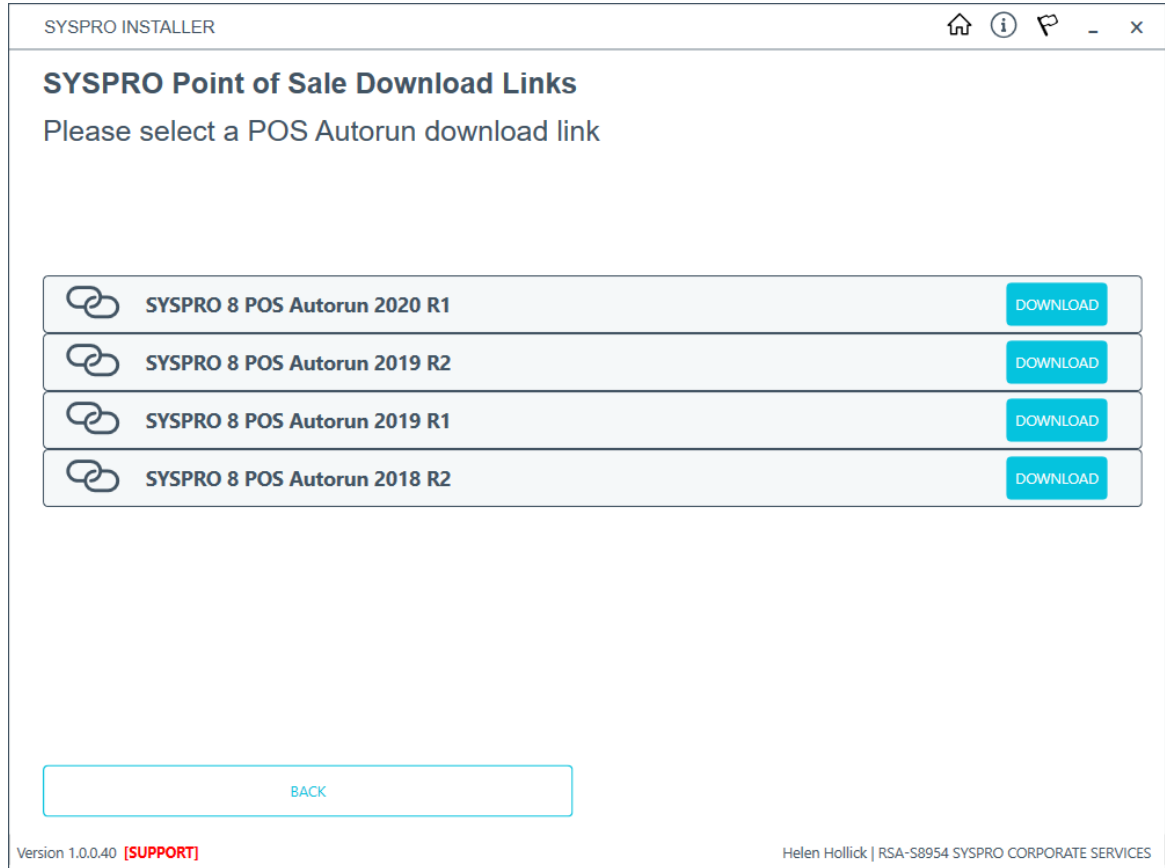
The installation files are stored on the **Deployment Share** in the syspro-additional-software folder.

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 under the release subfolder.

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

8. Select **OK**.

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.

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**).

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**).

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**.

Installing Point of Sale Online

Uninstalling SYSPRO 7 Point of Sale Services

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

ℹ The reason for uninstalling the services is due to changes in the architecture.

1. Navigate to **Uninstall a program**.
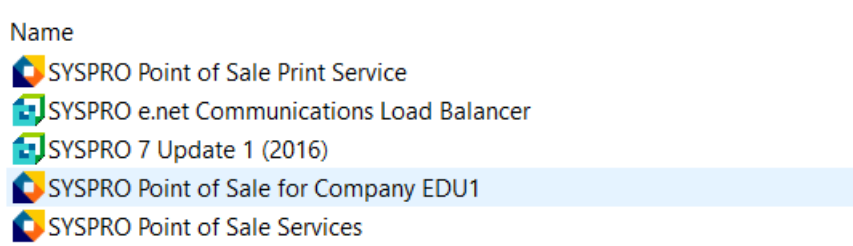
2. Right click on **SYSPRO Point of Sale Print Service** and select **Uninstall**.

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.

---

2. Select **Online Installation**.

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

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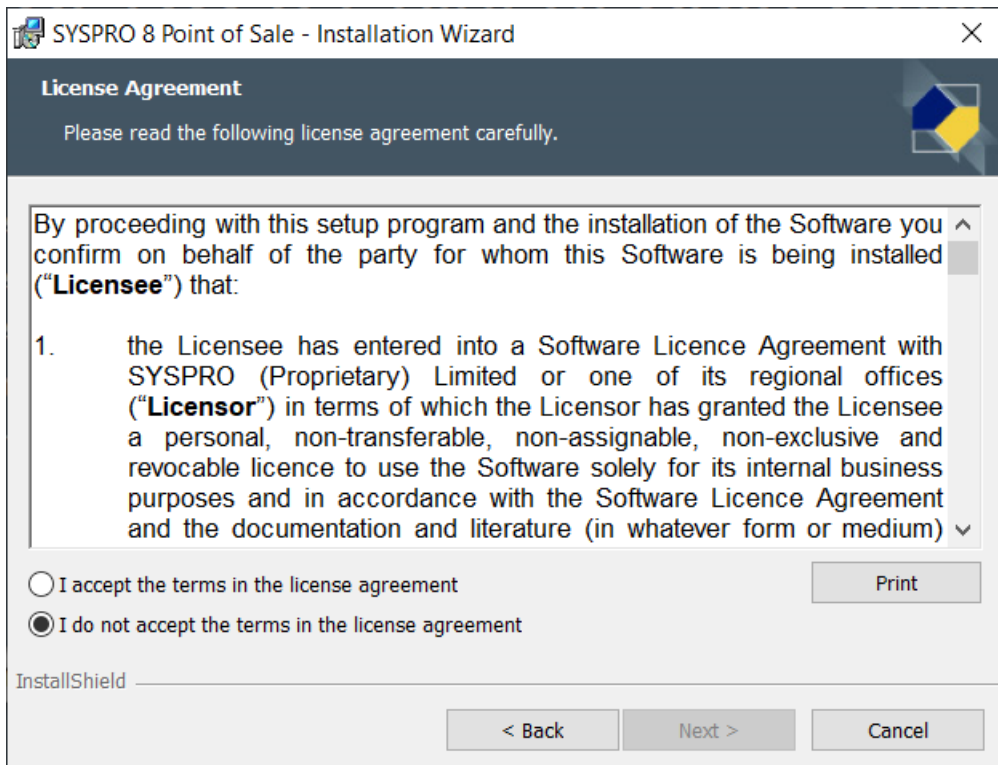
5. Accept the terms of the agreement.
   a) Read/Print the license agreement.
   b) Select **I accept the terms in the license agreement**.
   c) Select **Next >**.

   The **Setup Type** window is displayed.
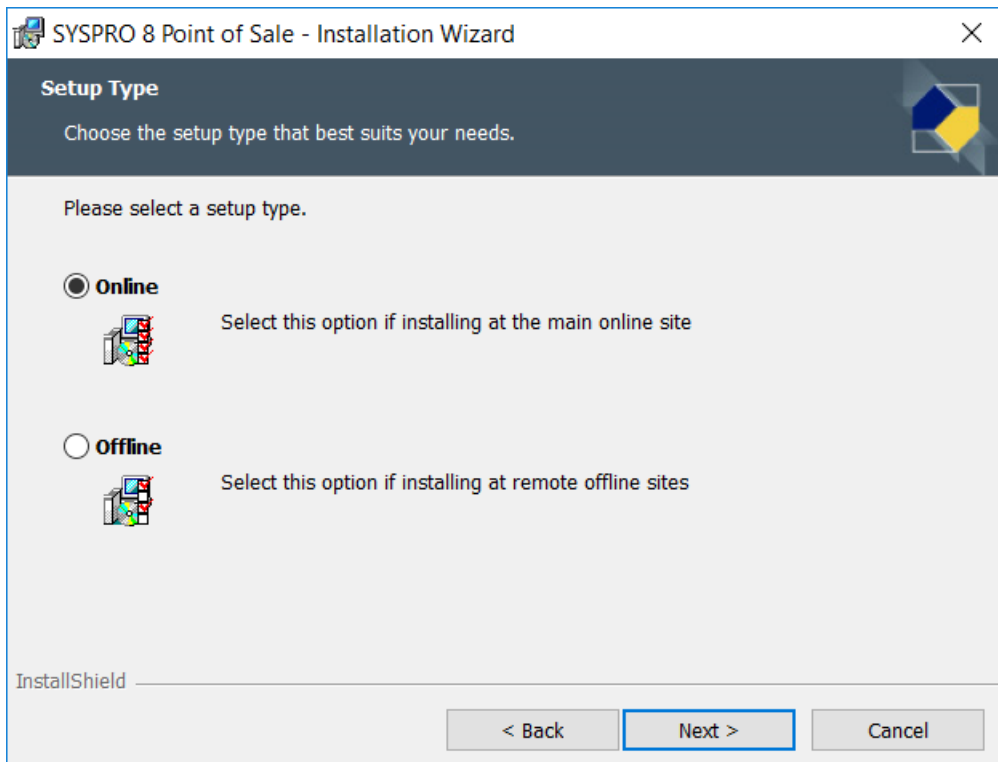
6. Select **Online** and then **Next >** to continue.

The *SYSPRO Communications* window is displayed.
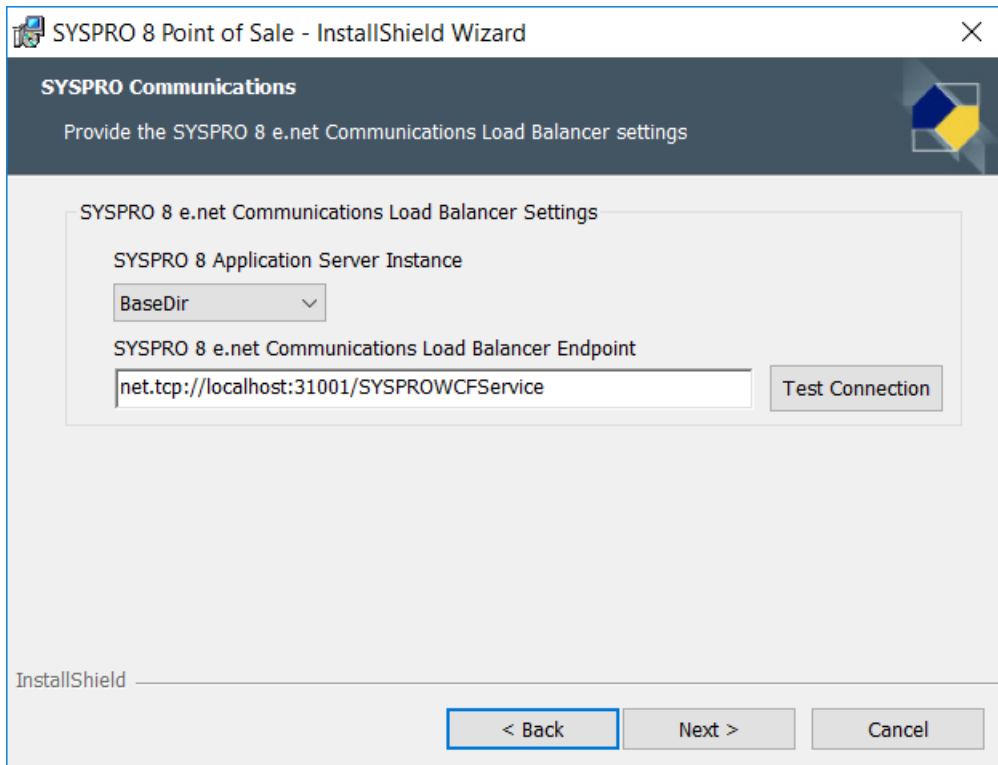
7. Provide the **SYSPRO 8 e.net Communications Load Balancer** settings.
    a) Select the base directory for **SYSPRO 8 Application Server Instance**.
       For training purposes accept the default of BaseDir.
    b) Enter the URL for the **SYSPRO 8 e.net Communications Load Balancer Endpoint**.
       Accept the default entry of **net.tcp://localhost:31001/SYSPROWCService**.
    c) Select **Test Connection**.

       The *SYSPRO 8 e.net Load Balancer* window is displayed showing whether or not the test connection was successful.
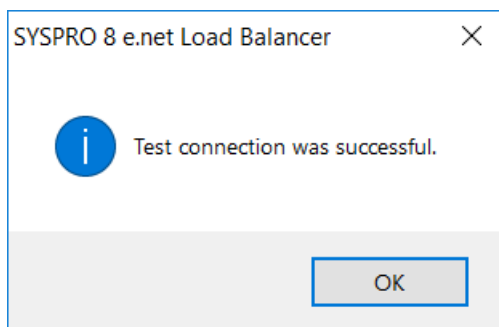
> 🖉 **Note:** If the test connection is not successful then you will need to address any **SYSPRO e.net Communications Load Balancer Settings** problems before continuing,

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

       The *SYSPRO Communications* window is displayed.
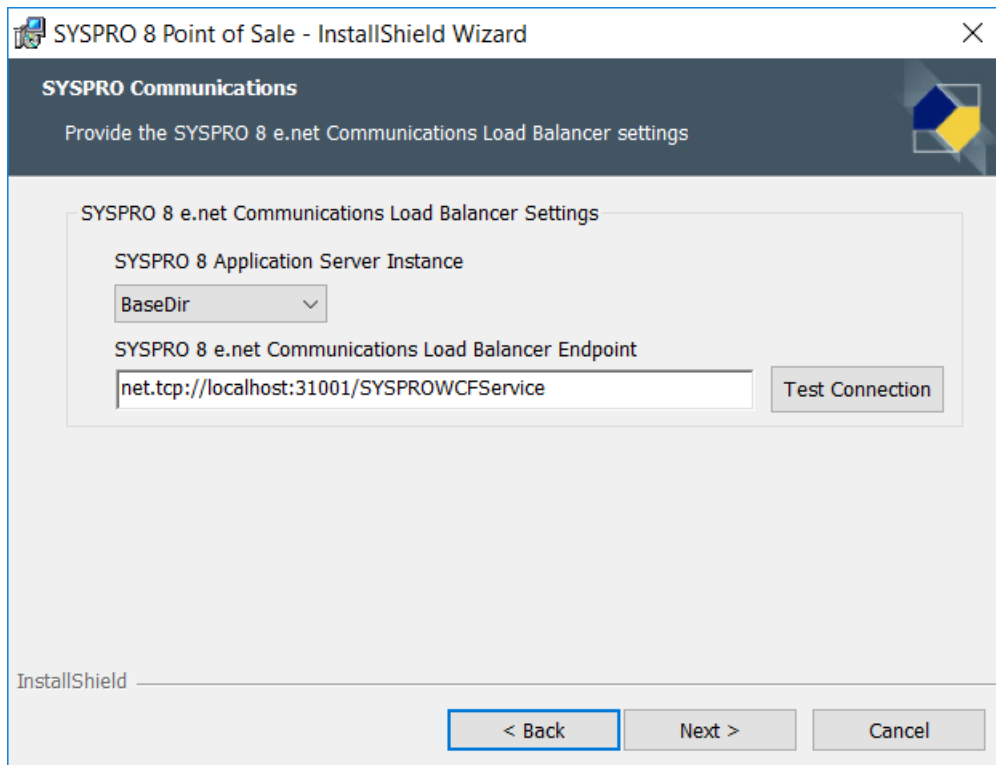
e) Select **Next >** to continue.

The **SYSPRO Point of Sale Configuration** window is displayed.
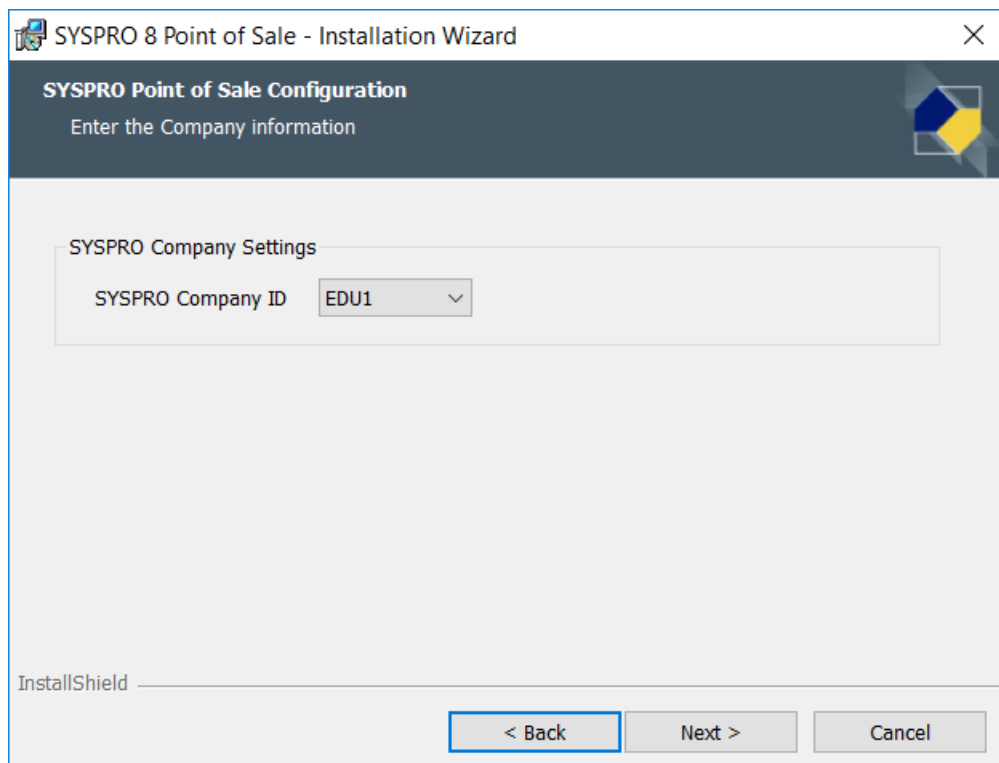
8. Select your **SYSPRO Company ID** from the drop down list and then **Next >** to continue.
   For training purposes accept the default SYSPRO Company ID (EDU1).

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

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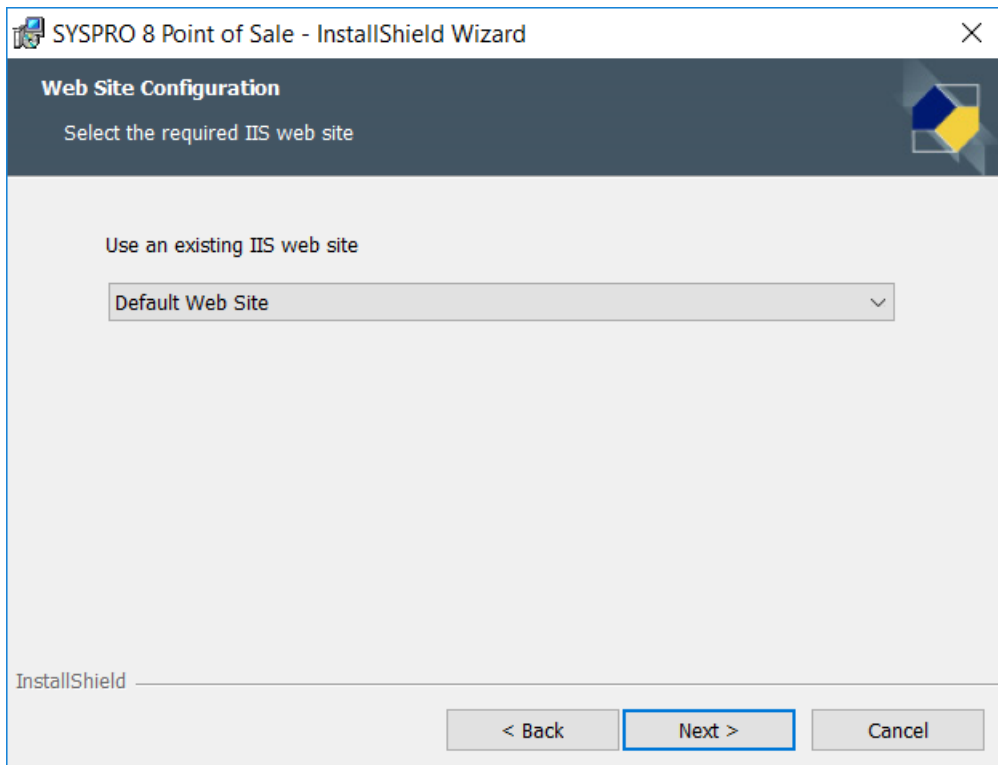
9. Select the required IIS Web Site and then **Next >** to continue.

    Accept **Default Web Site**.

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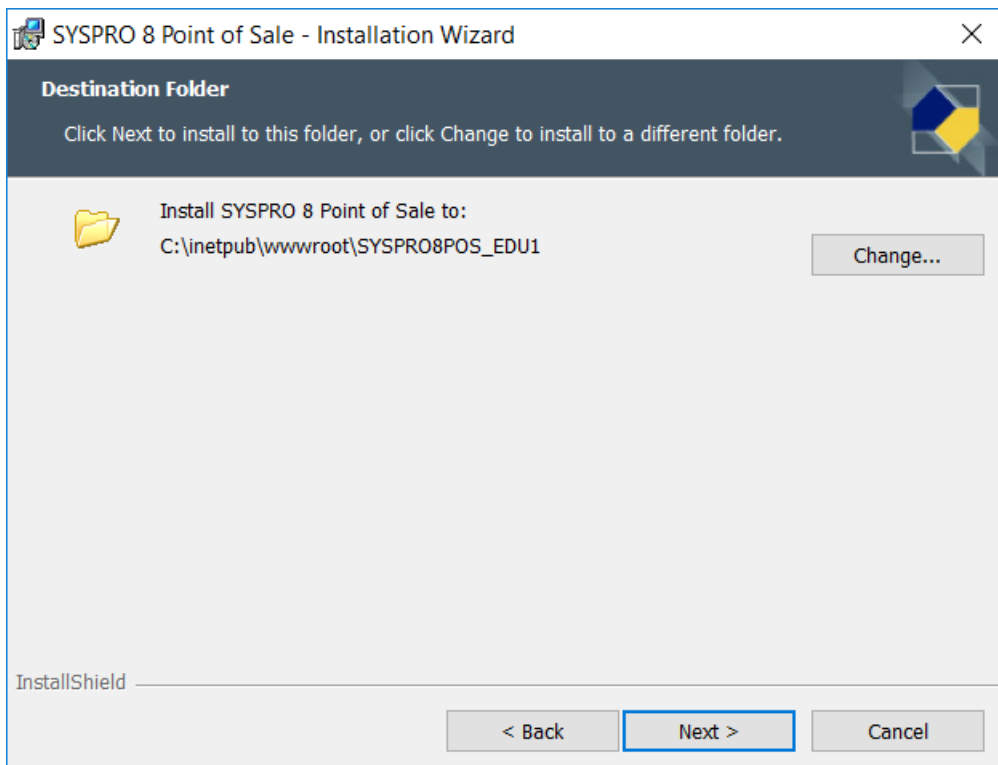
10. Accept the default **Destination Folder** or **Change...** to amend the path and then **Next >** to continue.

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

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.

a) Enter a **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.

For training purposes leave these fields blank and select **Next >** to continue.

The *Database Server* window is displayed.
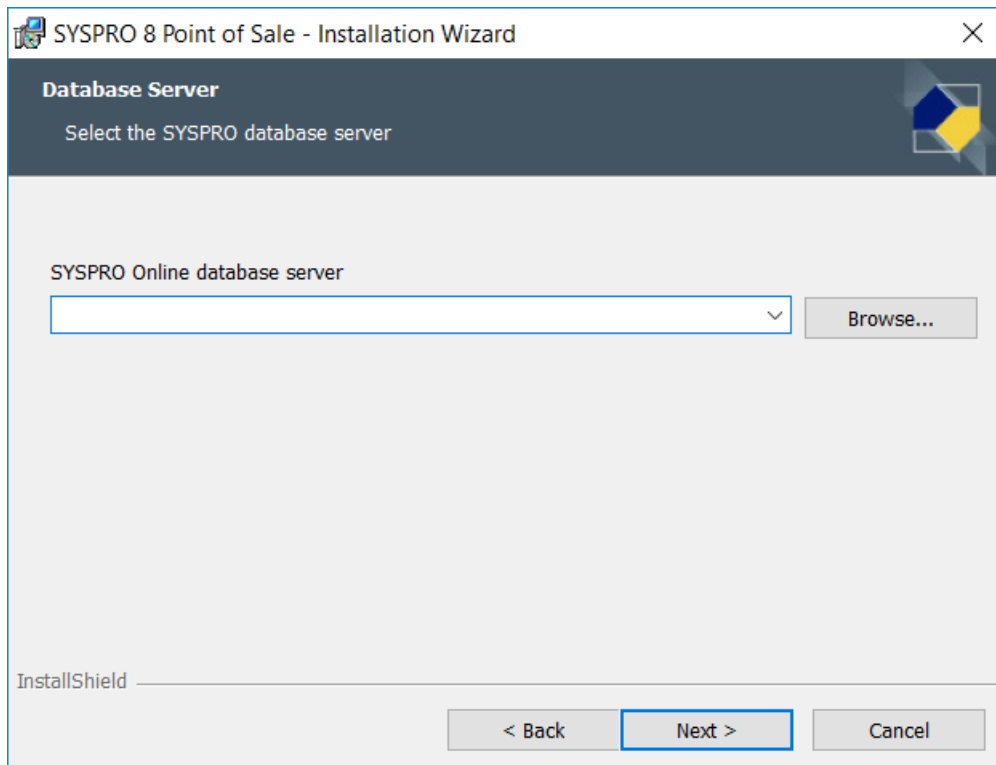
12. Enter the **SYSPRO database server**.

    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.
       Select (local).

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

    The ***Ready to Install the Program*** window is displayed.
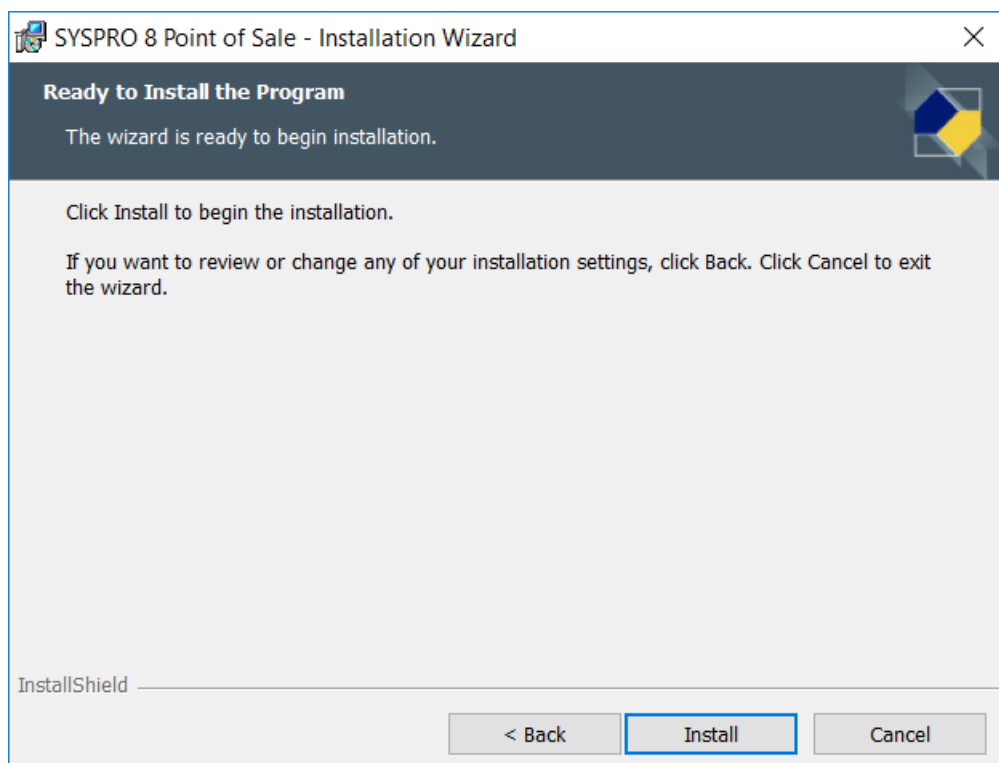
13. To begin the installation select **Install**.

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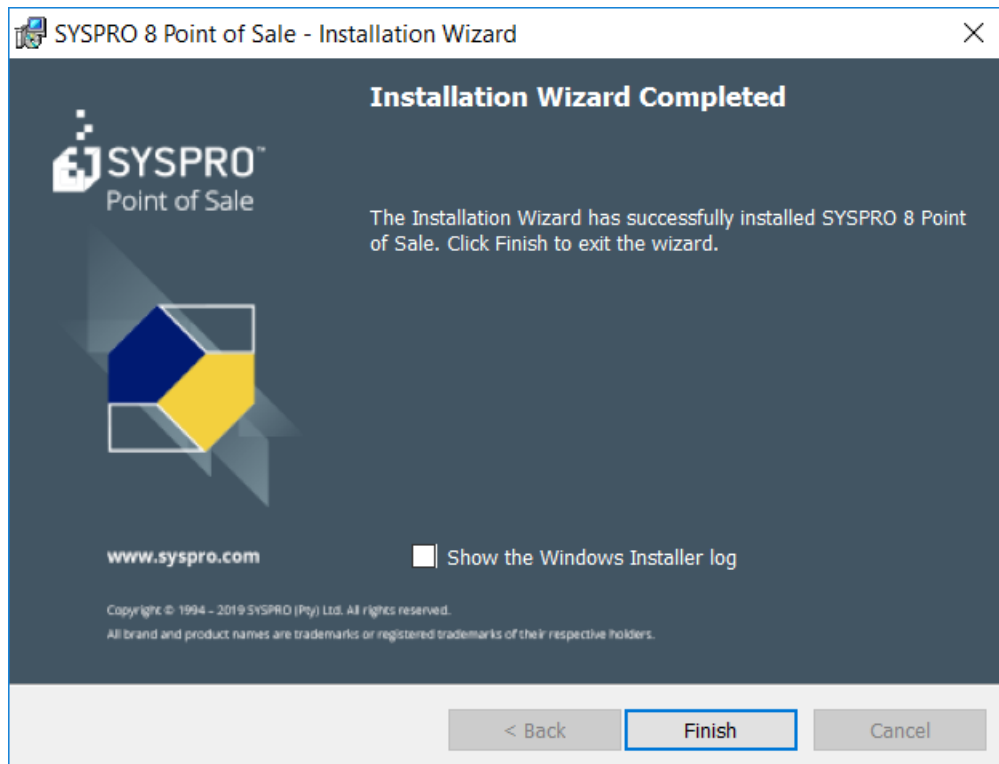
The **Installation Wizard** has successfully installed **SYSPRO Point of Sale** Online.

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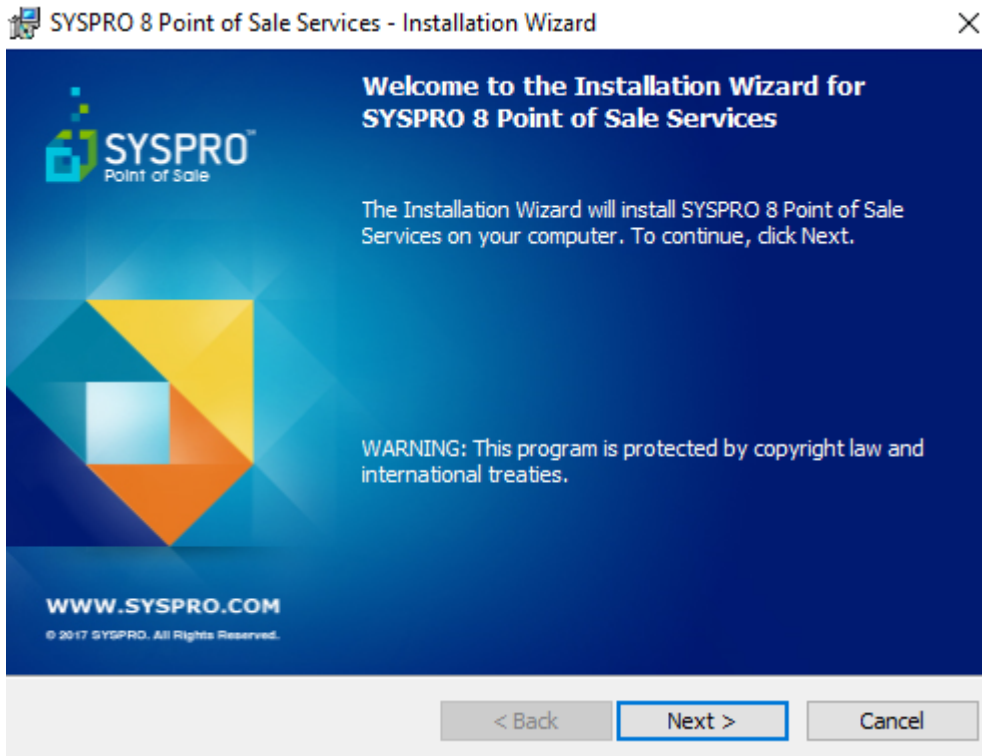
2. Select **Next >** to continue.
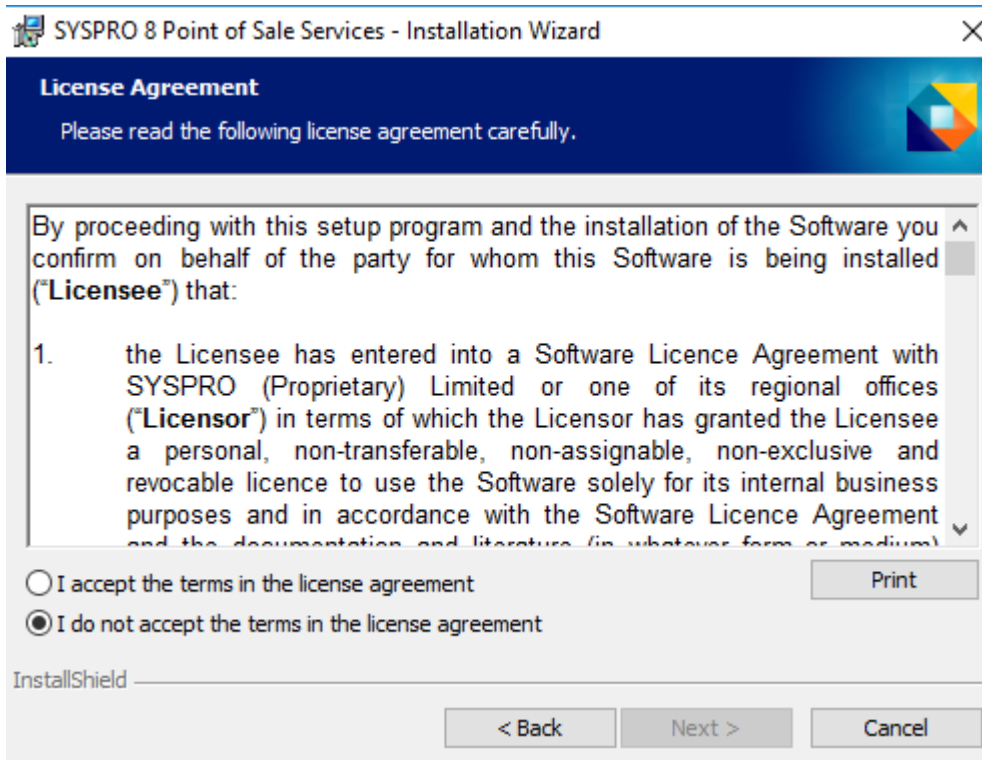
   The **License Agreement** window is displayed.

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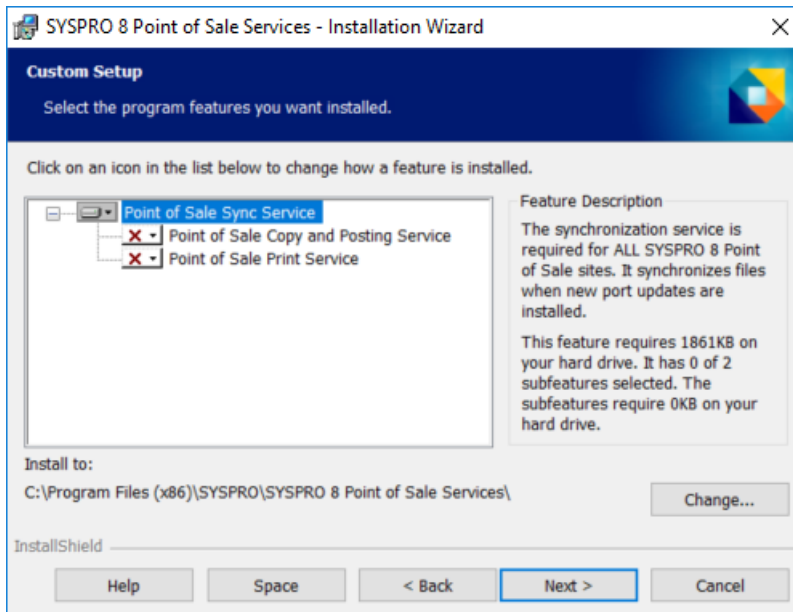
4. Select where you want to install the **Custom Setup**.

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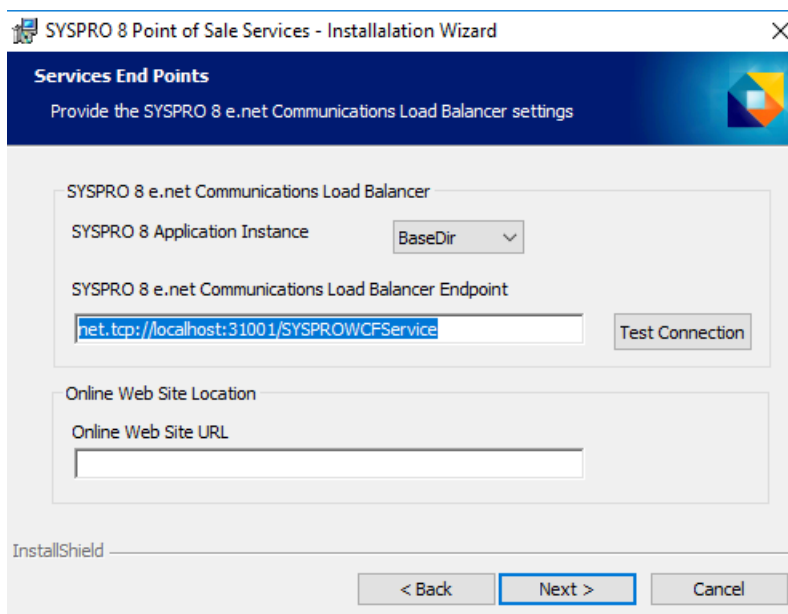
5. Enter the SYSPRO 8 e.net Communications Load Balancer Settings.

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

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Upgrading to SYSPRO Point of Sale 8 | 60
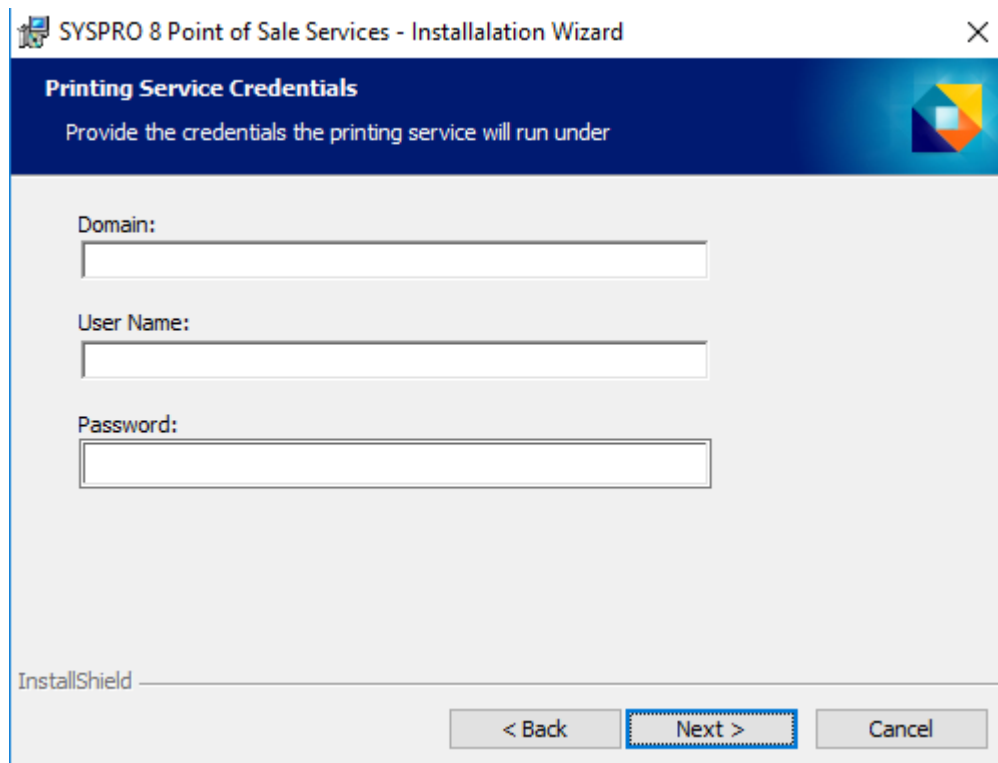
Accept the default of BaseDir.

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**.

Enter http:\\localhost\SYSPRO8AVANTIPOS_EDU1.

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.
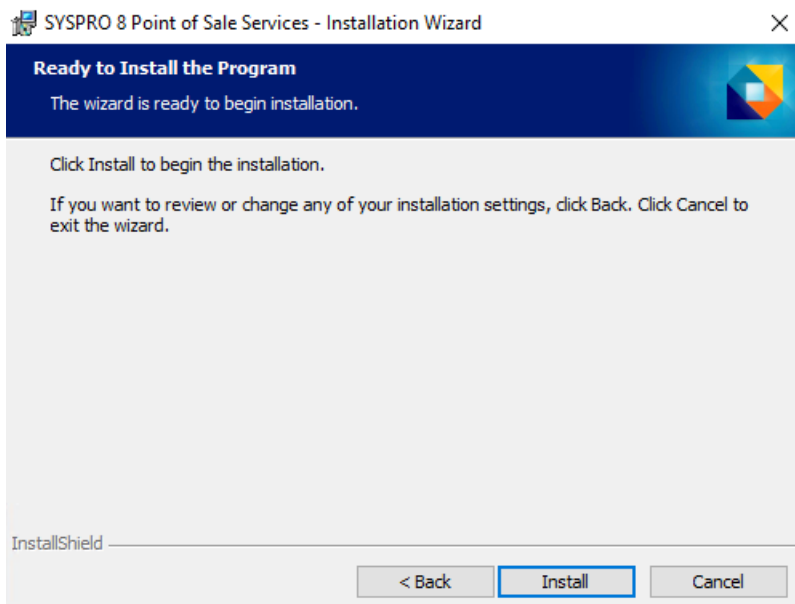
8.   Select **Install**.

The ***Installation Wizard Completed*** window is displayed.
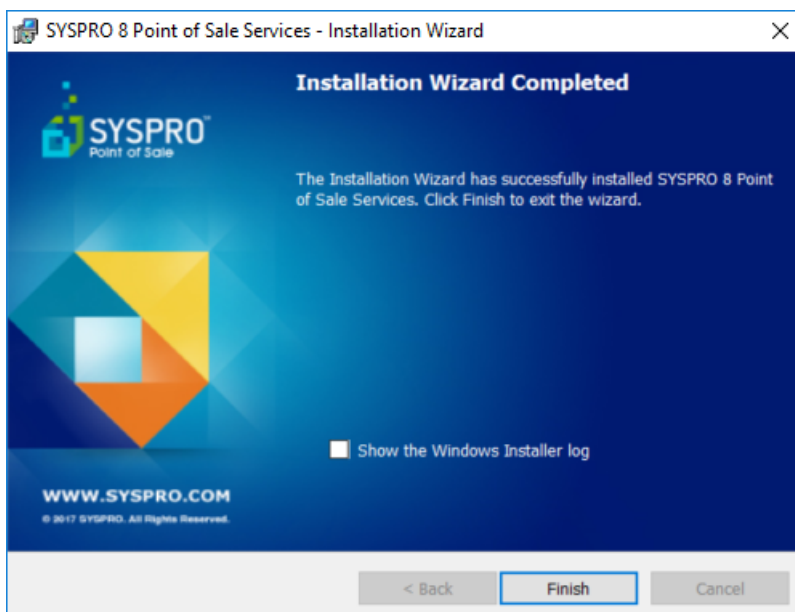
9.   Select **Finish**.

The ***SYSPRO 8 Point of Sale Offline*** window is displayed.
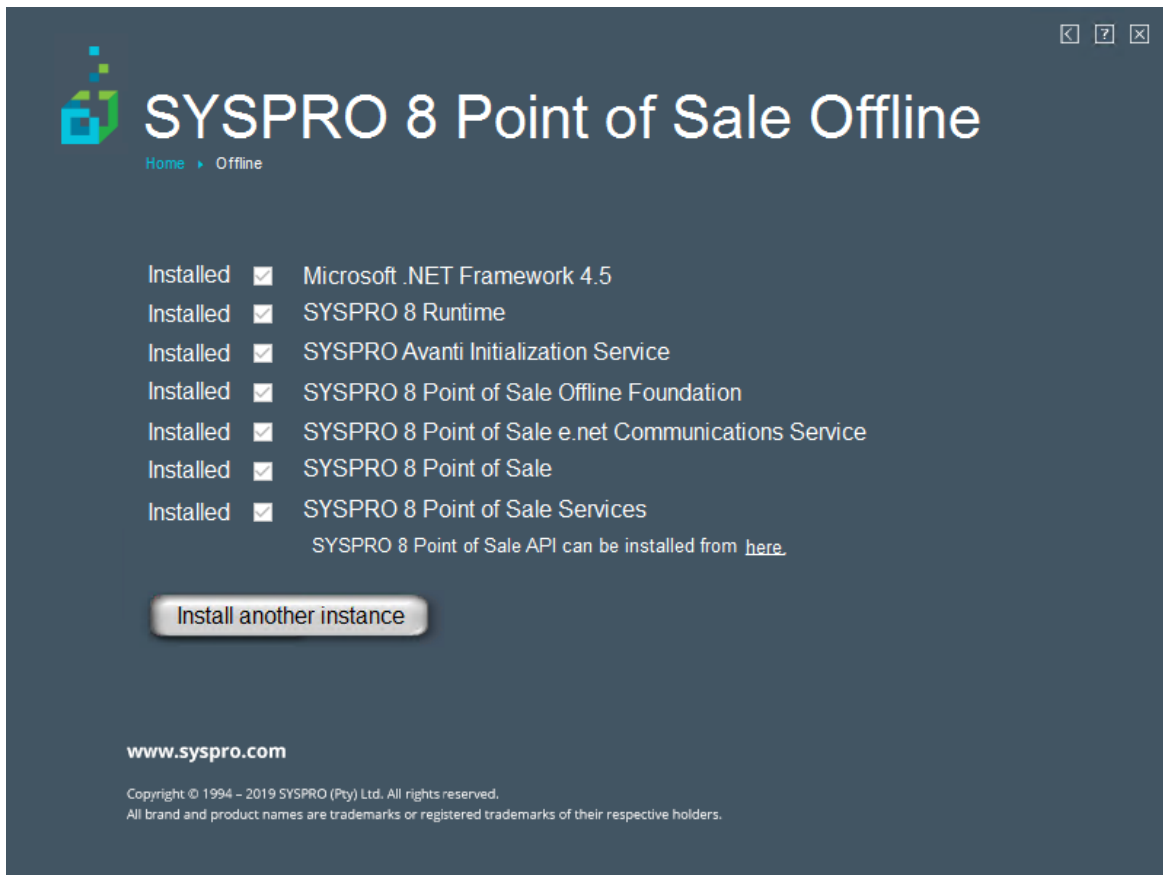
You will not be installing another instance of Point of Sale at this stage. Select **x** to exit the program.

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.

ℹ Once you have installed **SYSPRO Point of Sale**, launch the program in your browser (**Internet Explorer**).

The initial loading of the site will take longer due to the SYSPRO Point of Sale database being added to **SQL Server**. Once the database is created Point of Sale will detect that there are no branches or users setup and prompt you to enter the basic information required for this.

You can then use the newly set up **Point of Sale User** to log in to the **SYSPRO Point of Sale** application.

1. Open the **SYSPRO Point of Sale** Silverlight application by entering the URL *http://{your server name}/SYSPRO8AvantiPOS_{yourcompanyID}/* in your browser's **Address** bar.

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

   Enter *http://localhost/SYSPRO8AvantiPOS_EDU1/* in your browser's **Address** bar.

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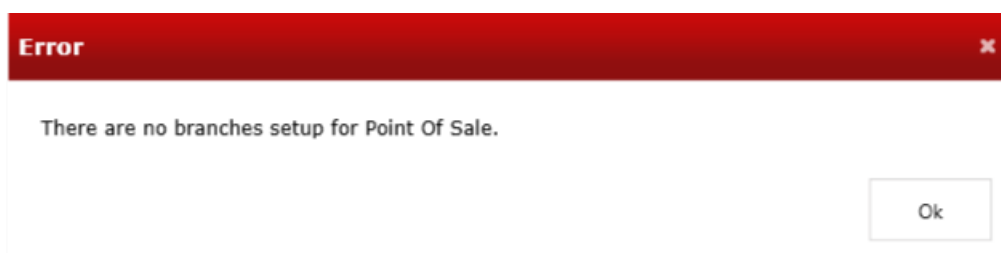
2. Select **Ok**.

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

3. Add a new branch and user.

    The bear 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.

    > Enter *10 - North* in the **Branch Code** field.

    The branch code has a limitation of 10 characters.

    b) Enter a branch description in the **Description** field.

    > Enter *Receivables - North (Online)* in the **Description** field.

    c) Select a SYSPRO branch from the **SYSPRO Branch** list.

    > Select **10 - Receivables - North** from the **SYSPRO Branch** dropdown 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.

---

b) Enter the user login name in the **User Name** field.

> Enter *Pat* in the **User Name** field.

c) Enter an email address in the **Email** field.

> Enter *patw@OUTDOORS.com* in the **Email** field.

d) Enter a password in the **Password** field.

> Enter *p@ssw0rd* in the **Password** field.

e) Enter the user's first name in the **First Name** field.

> Enter *Pat* in the **First Name** field.

f) Enter the user's last name in the **Last Name** field.

> Enter *Webb* 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.

> Select **Existing**.
>
> Enter or Browse for *PAT* in the **SYSPRO Operator** field.

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

For training purposes you do not have to select this option.

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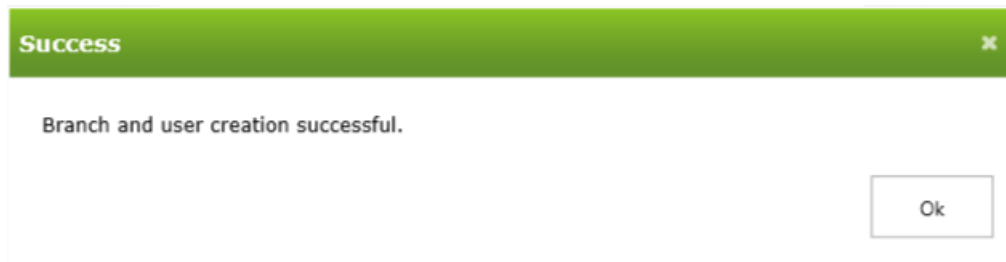
Note: An **Admin** user with full permissions is created. It is recommended to change the admin password on first login.

6. Select **Ok**.

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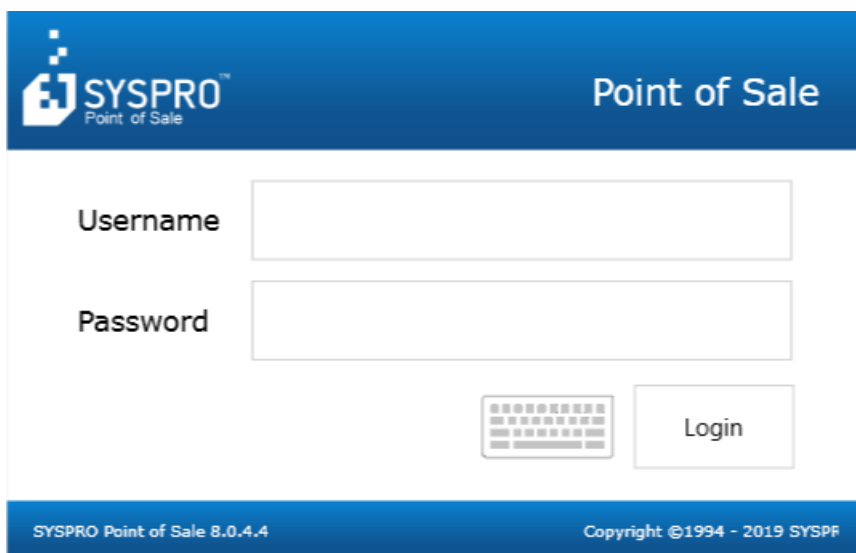
Installing Point of Sale Offline

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.
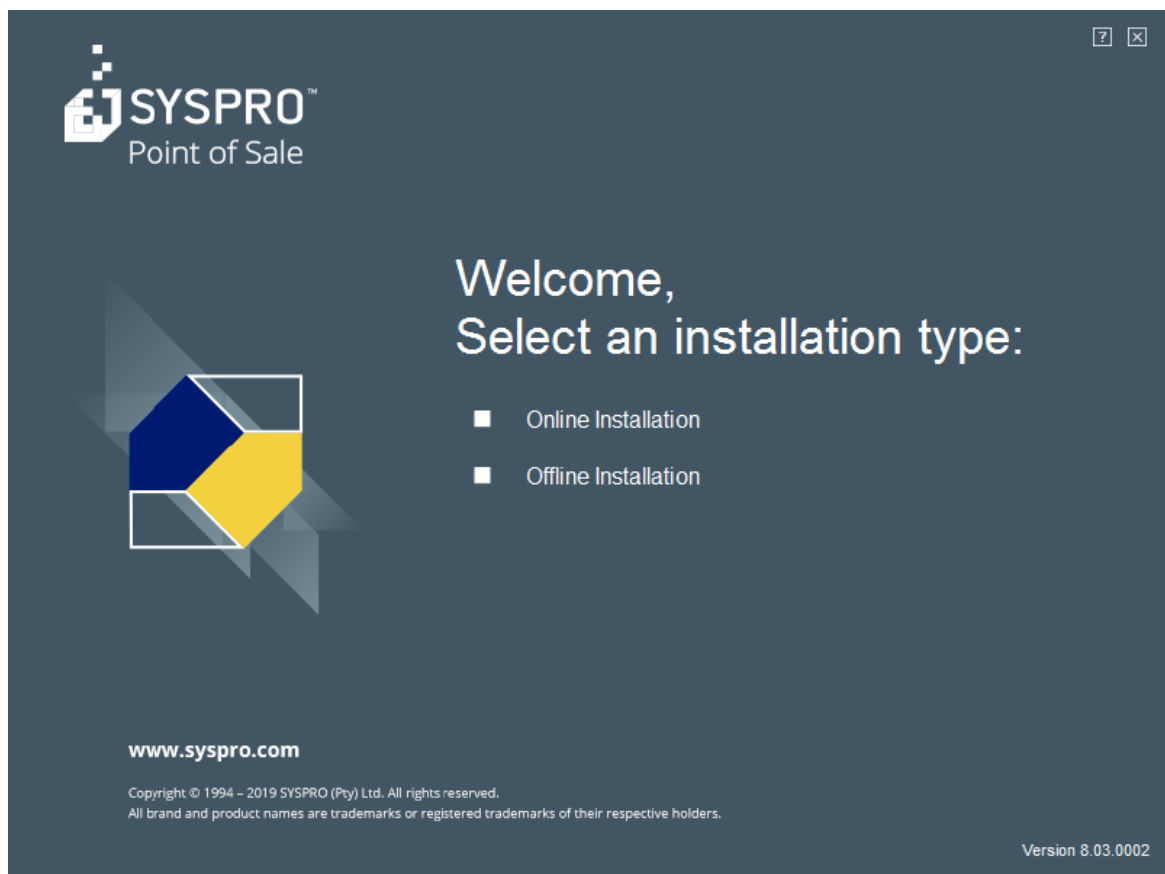
2. Select **Offline Installation**.

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

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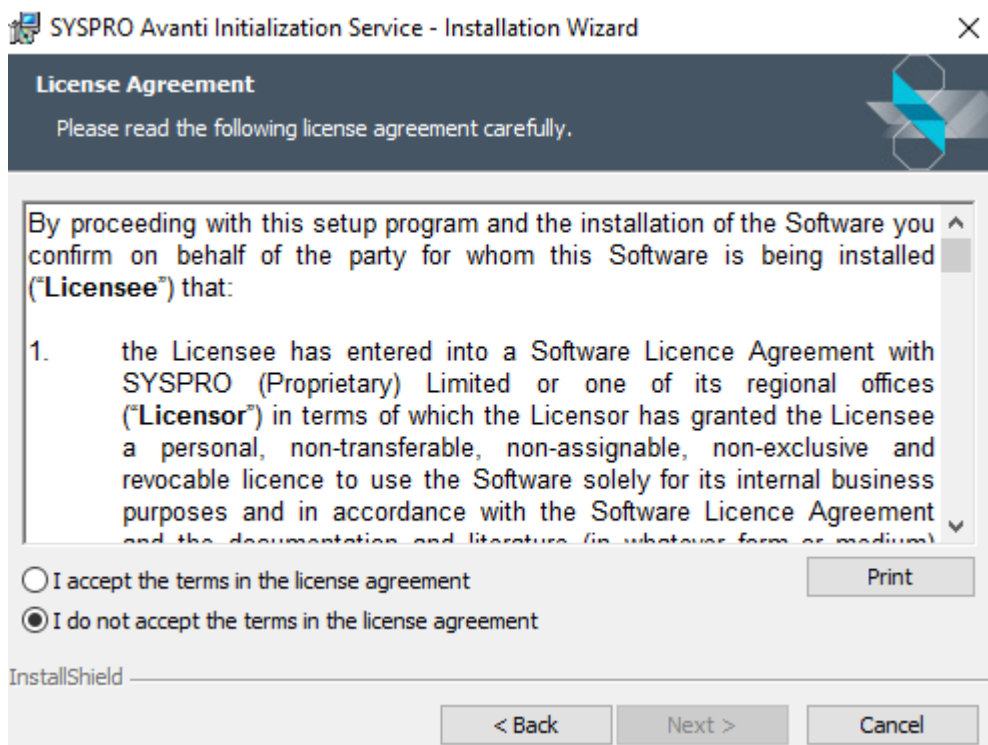
5. Accept the terms of the agreement.
   a) Read/Print the license agreement.
   b) Select **I accept the terms in the license agreement**.
   c) Select **Next >**.

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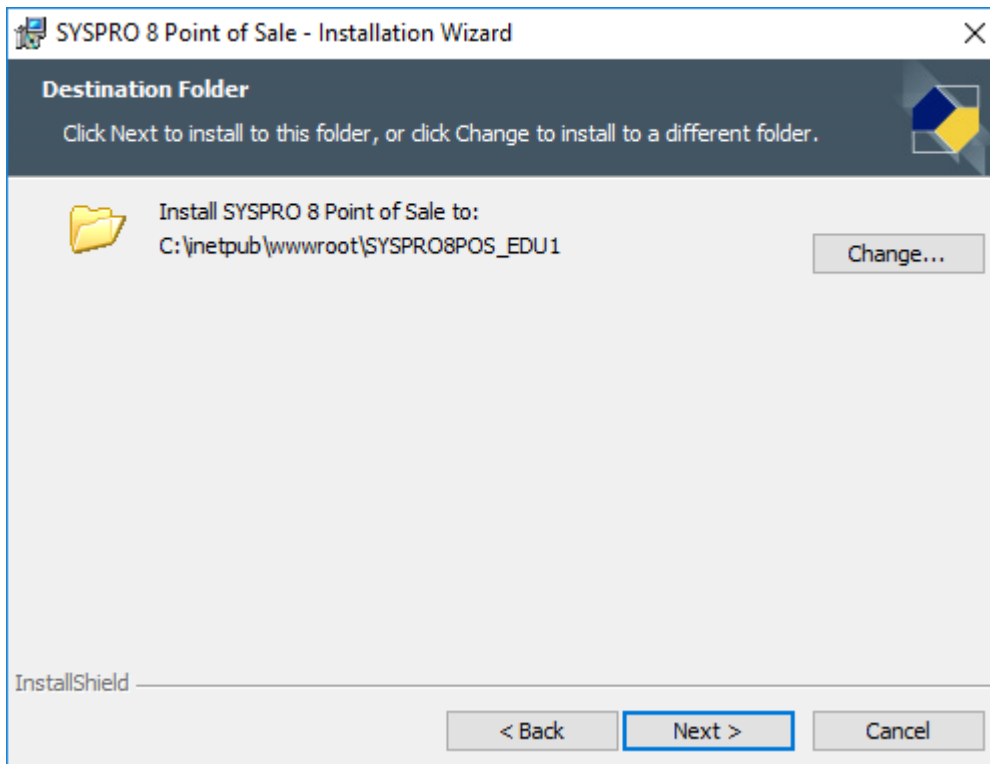
6. Enter the folder that you want to install **SYSPRO Avanti Initialization Service**.
   a) You can change the install path by selecting **Change...** or accept the default.
   b) Select **Next >** to continue.

   The *Service Communications* window is displayed.
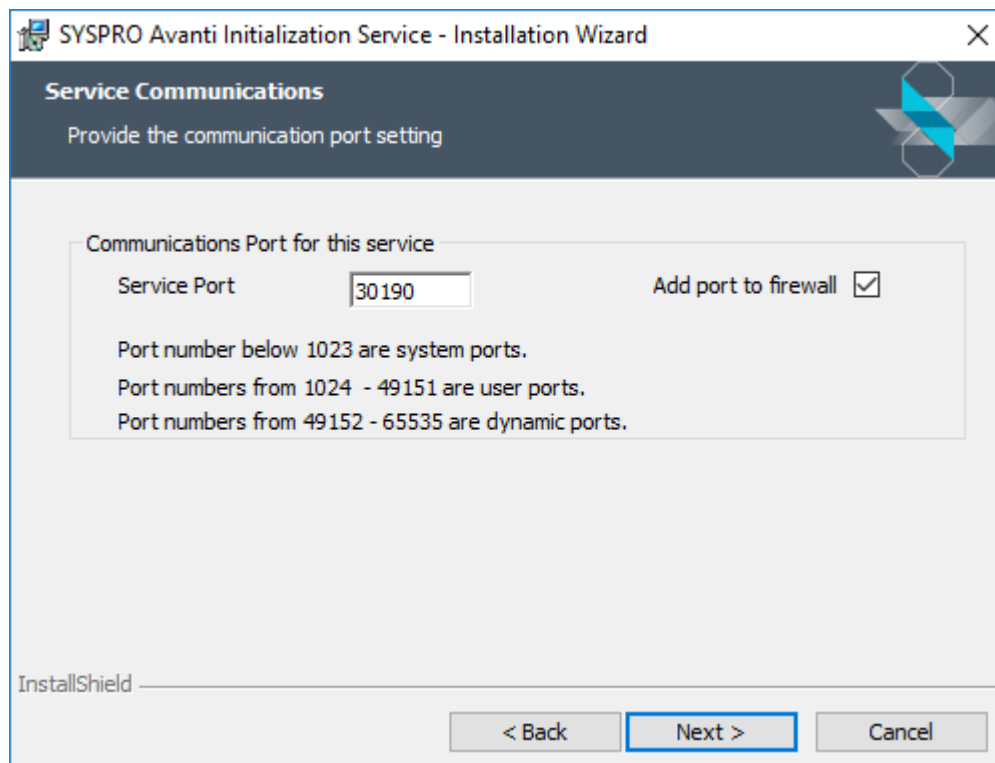
7. Provide the communication port setting and select **Next >** to continue.

Accept the defaults.

The **Ready to install the Program** window is displayed.
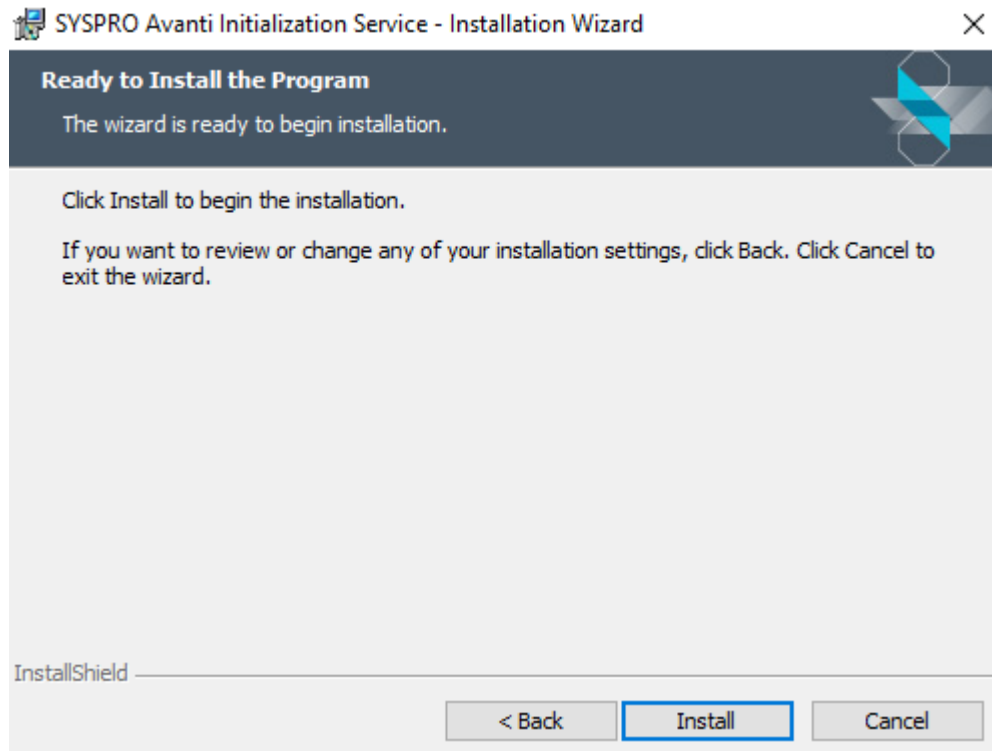
8.   Select **Install** to continue.

The ***Installation Wizard Completed*** window is displayed.
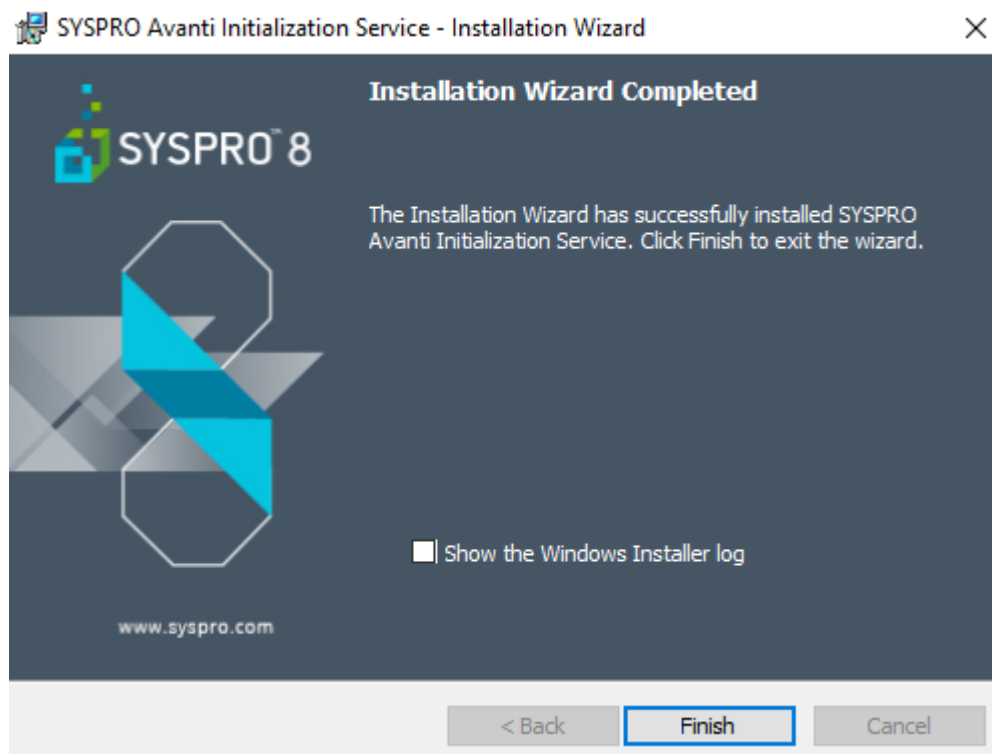
9.   Select **Finish**.

The *Welcome to the Installation Wizard for SYSPRO 8 Point of Sale Offline Foundation* window is displayed.
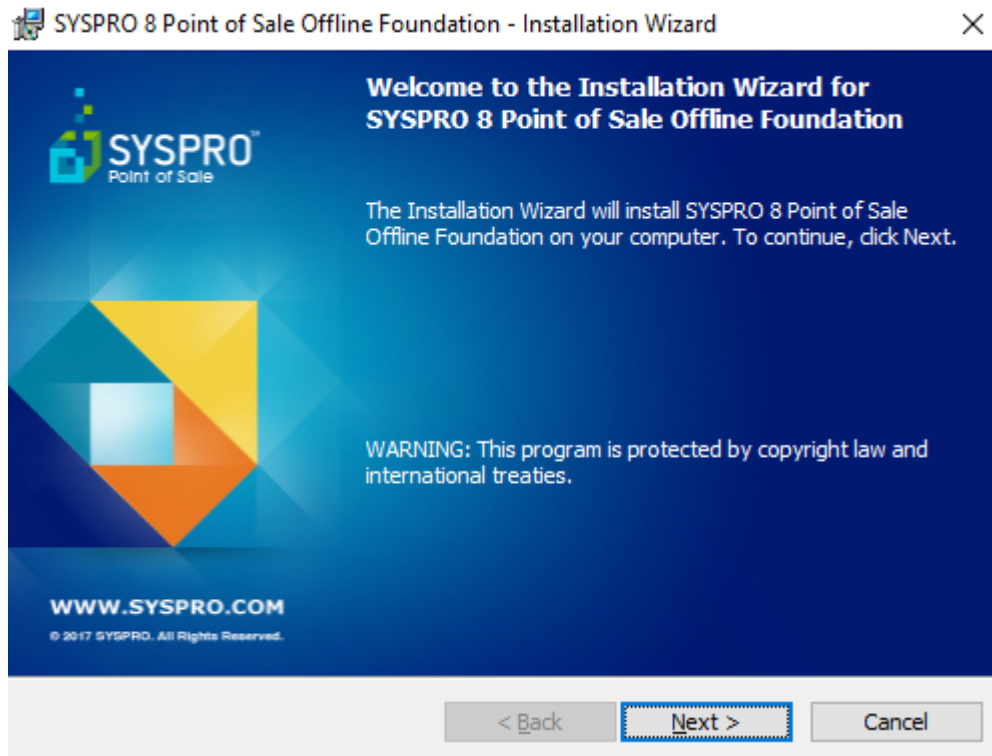
10. Follow the task steps to install the **SYSPRO 8 Point of Sale Offline Foundation**.

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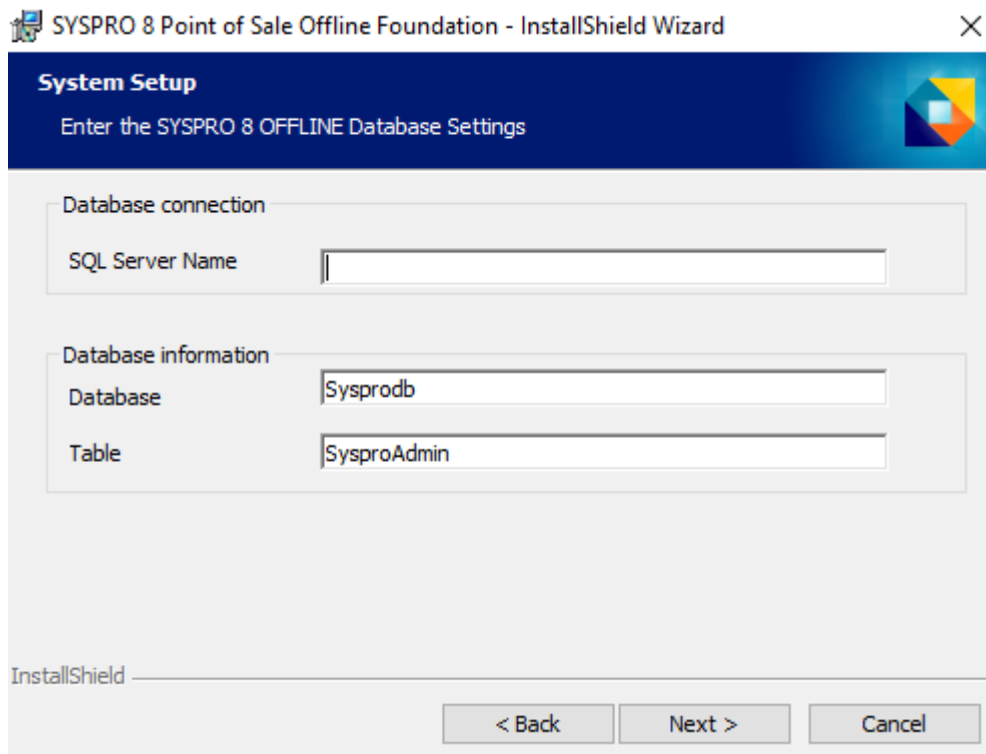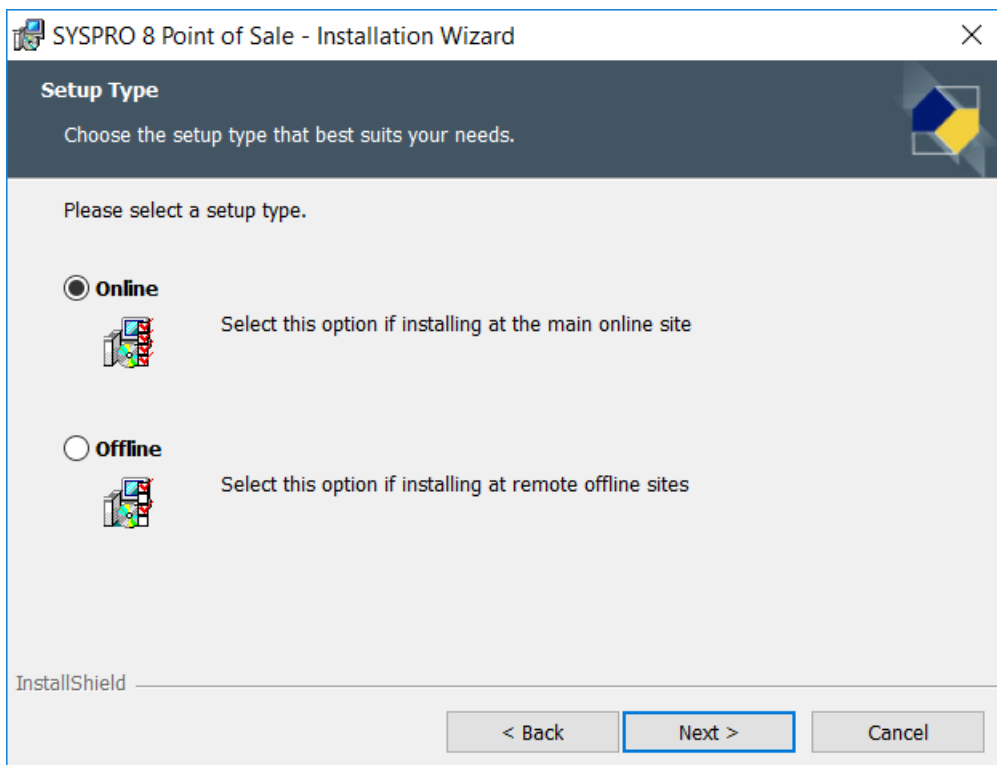
2. Select **Next >** to continue.

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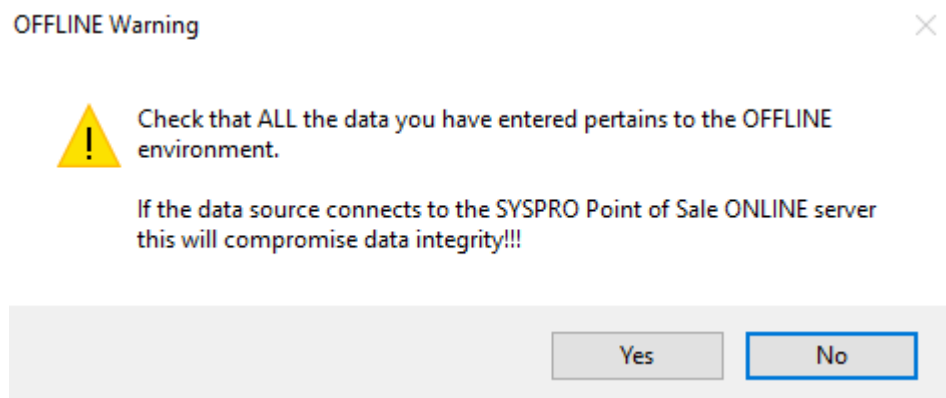
4. Enter the **SYSPRO 8 OFFLINE** Database Settings.

    a) Enter the **SQL Server Name**.
    b) Enter or accept the **Database information**.
        Accept the defaults.
    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.
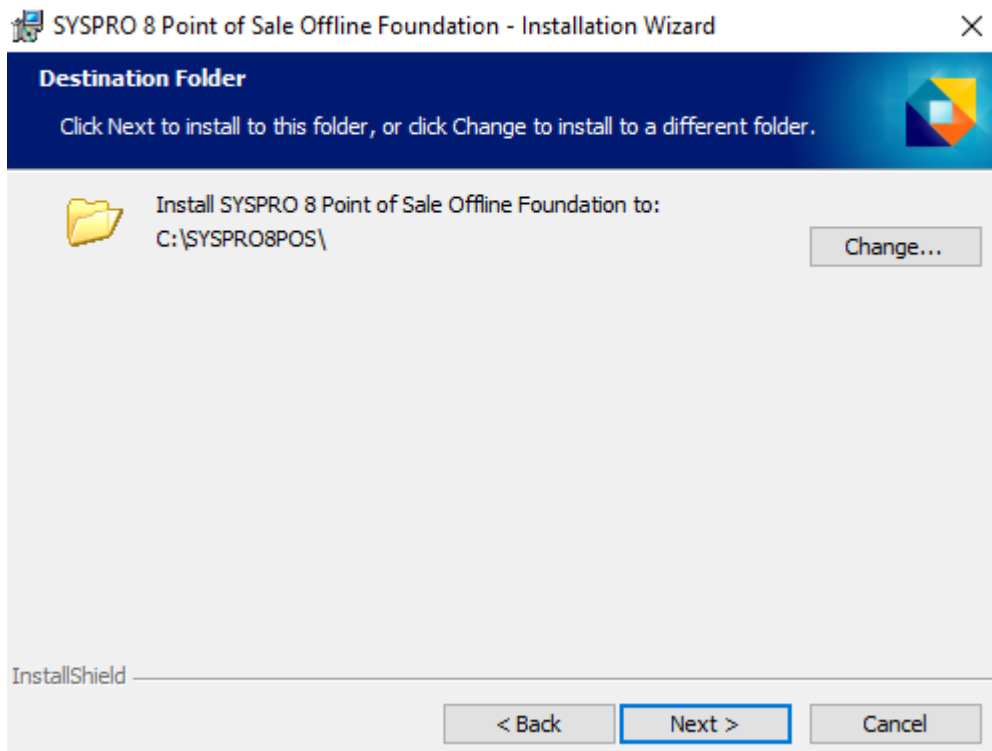
5. Enter the folder that you want to install the **SYSPRO Point of Sale Offline Foundation** to.
   a) You can change the install path by selecting **Change...**.

   Accept the default of **C:\SYSPRO8POS**.

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

   The **Ready to Install the Program** window is displayed.
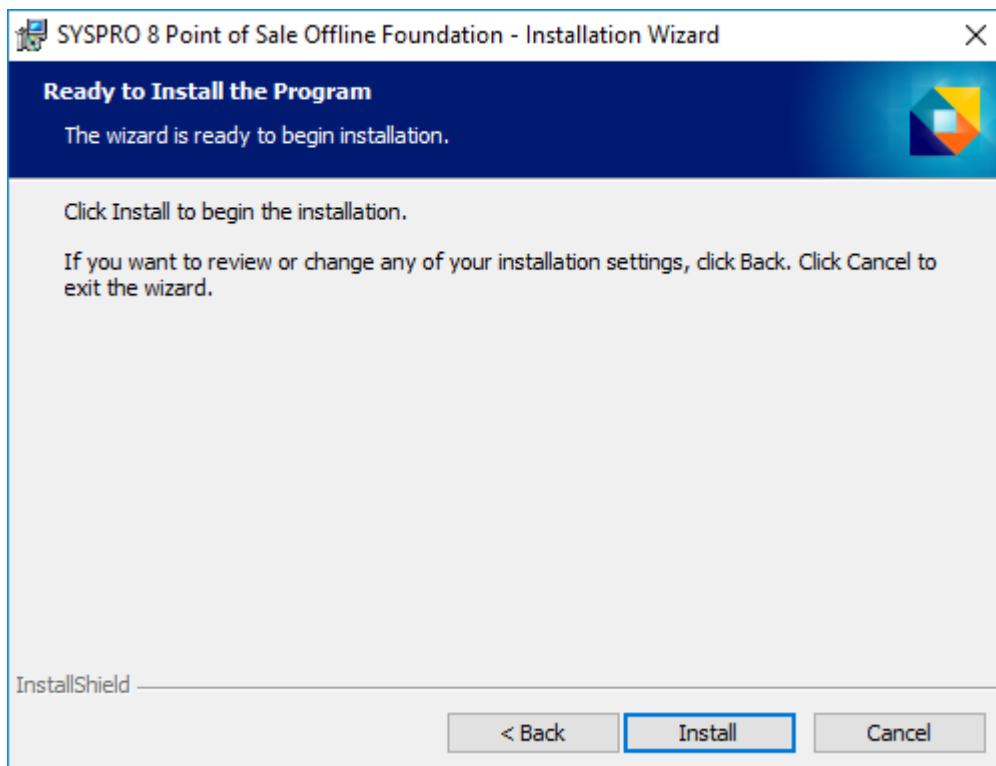
c) Select **Install**.

The ***Installation Wizard Completed*** window is displayed.
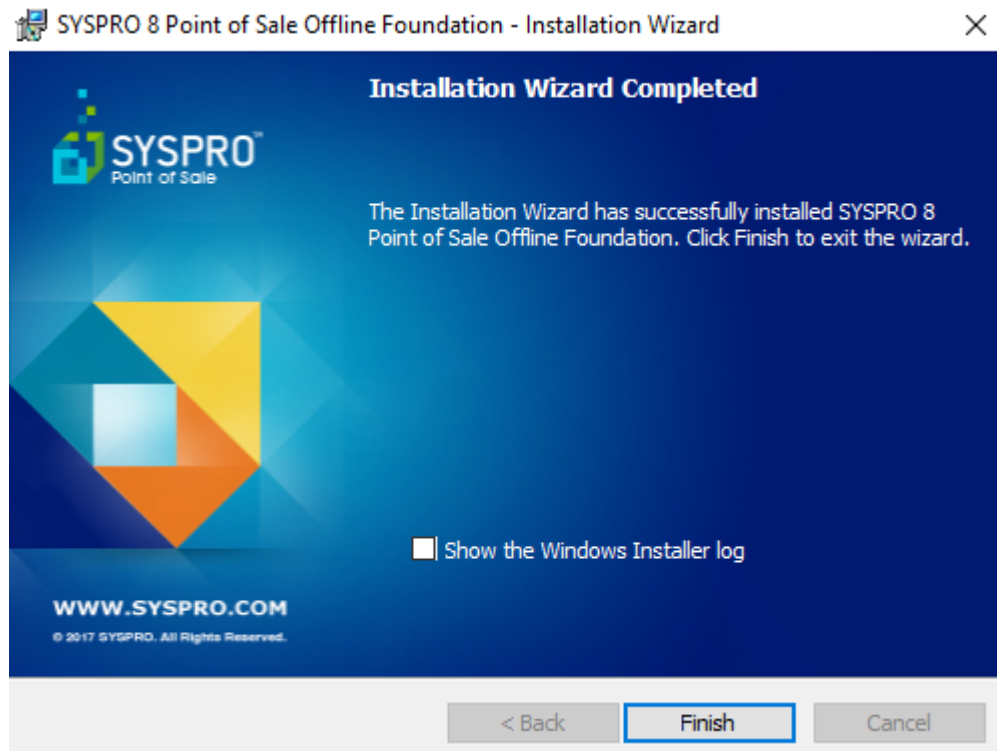
6. Select **Finish** to exit the window.

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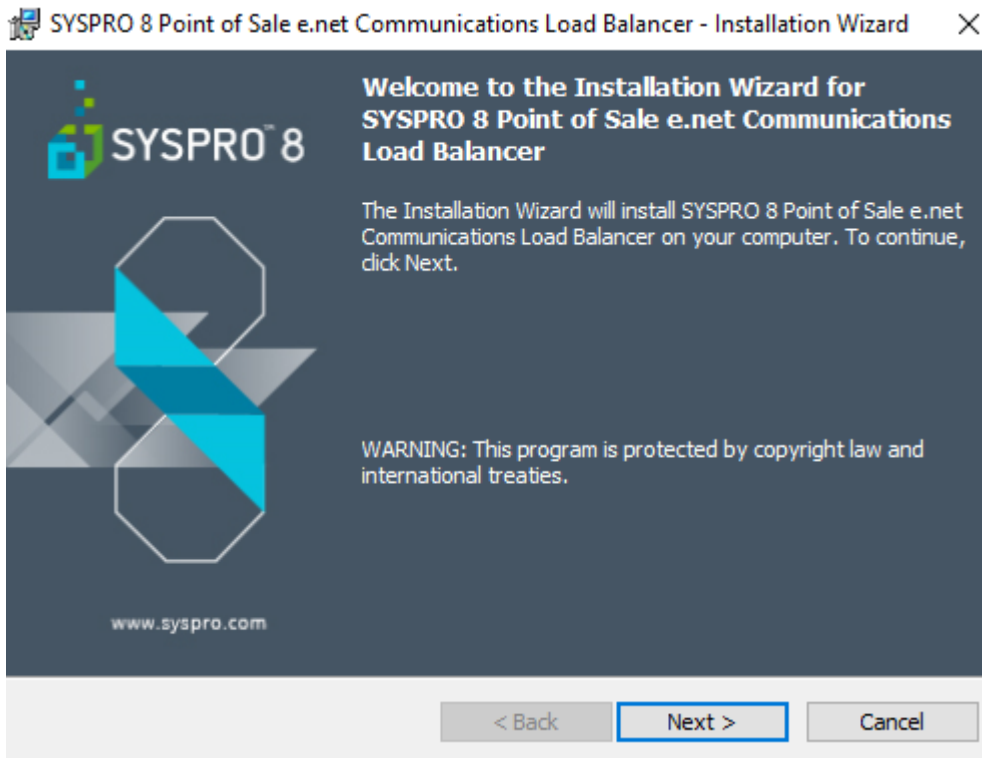
2. Select **Next >** to continue.
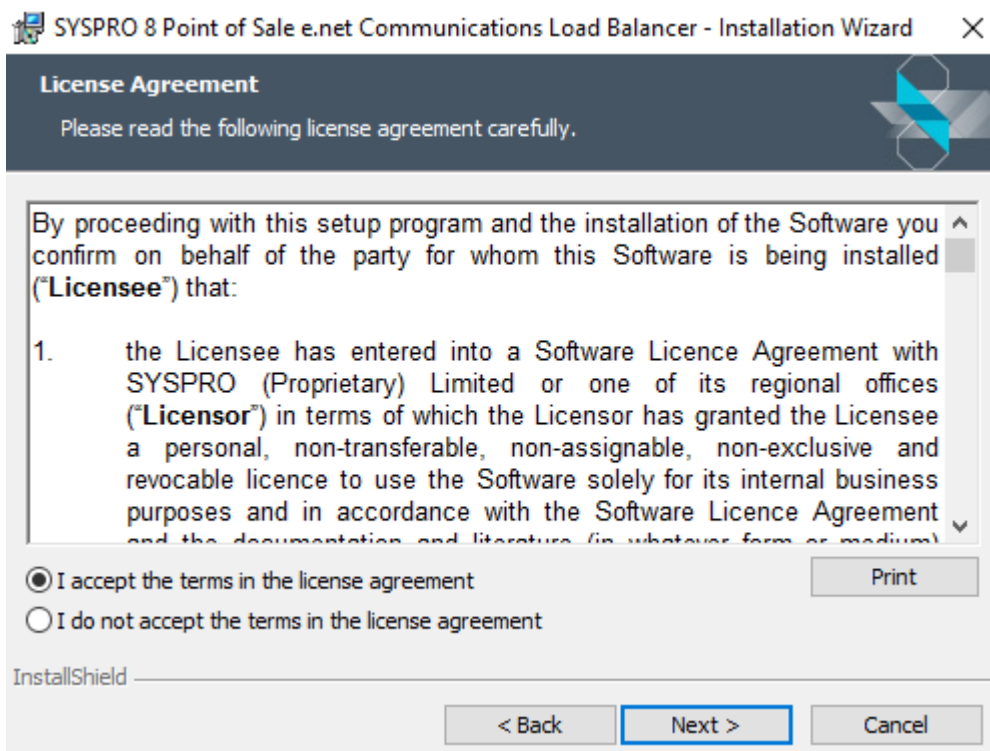
    The *License Agreement* window is displayed.

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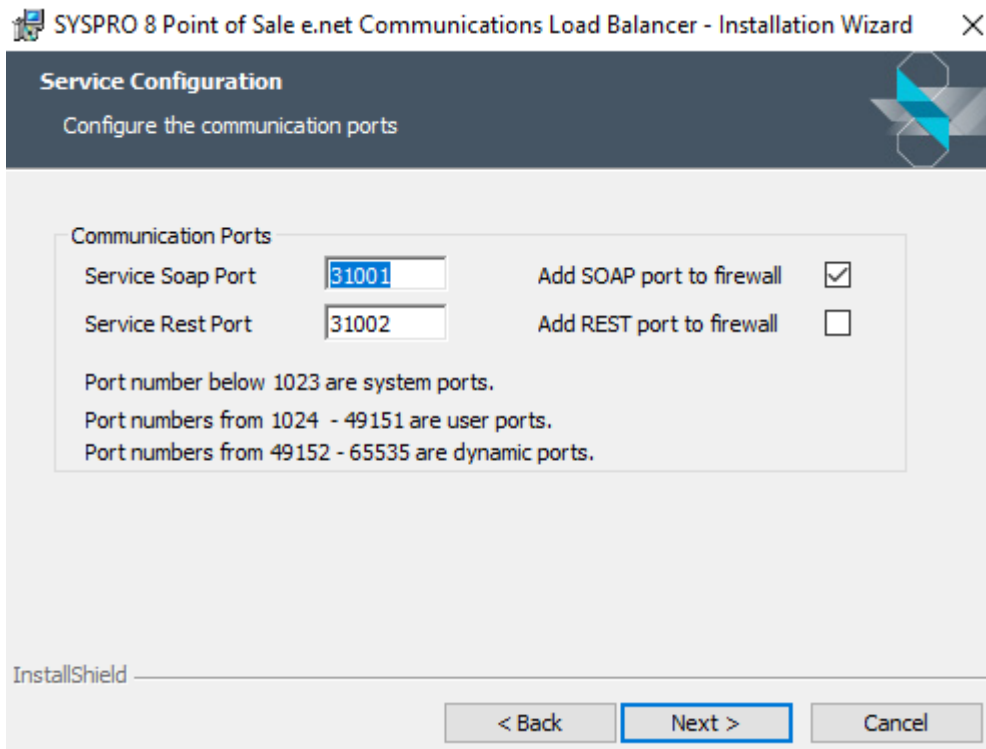
4. You need to configure your **Communication Ports**.
   a) Enter or accept the **Service Soap Port** and **Service Rest Port**.
   b) Select to **Add SOAP port to firewall**.
   > For training purposes, keep the defaults.
   c) Select **Next >** to continue.

   The **Port Assignments** window is displayed.
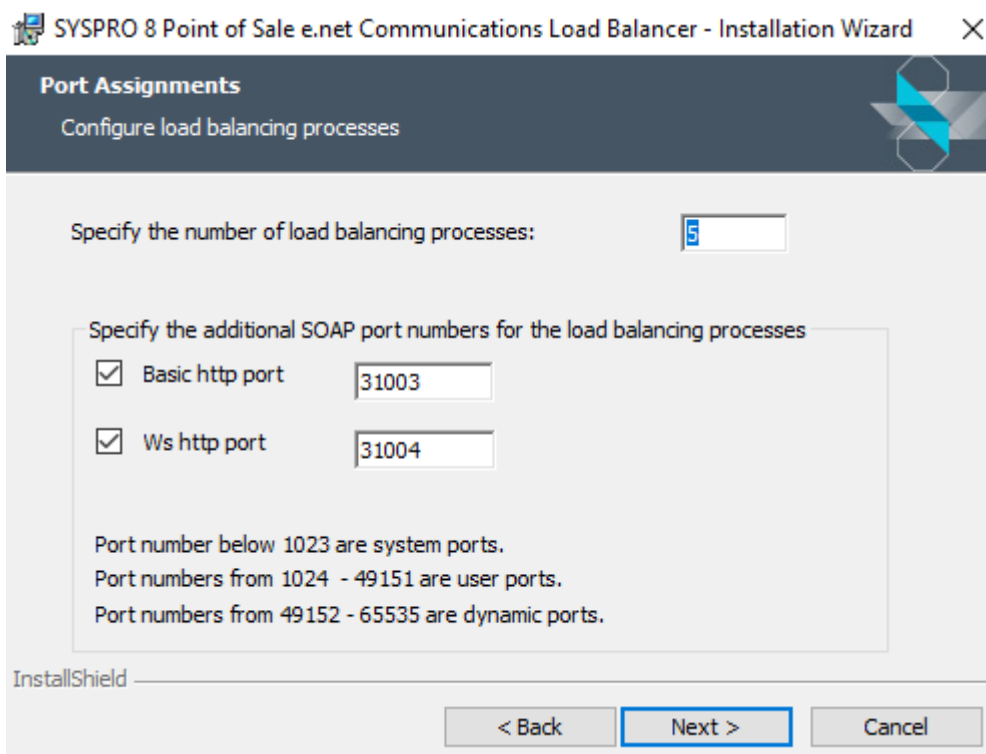
5. Configure the load balancing processes.

    a) Specify the number of load balancing processes.

    b) Specify the additional SOAP port number for the load balancing processes.

    Accept the defaults.

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

    The ***SYSPRO 8 Point of Sale e.net Communications Load Balancer*** window is displayed.
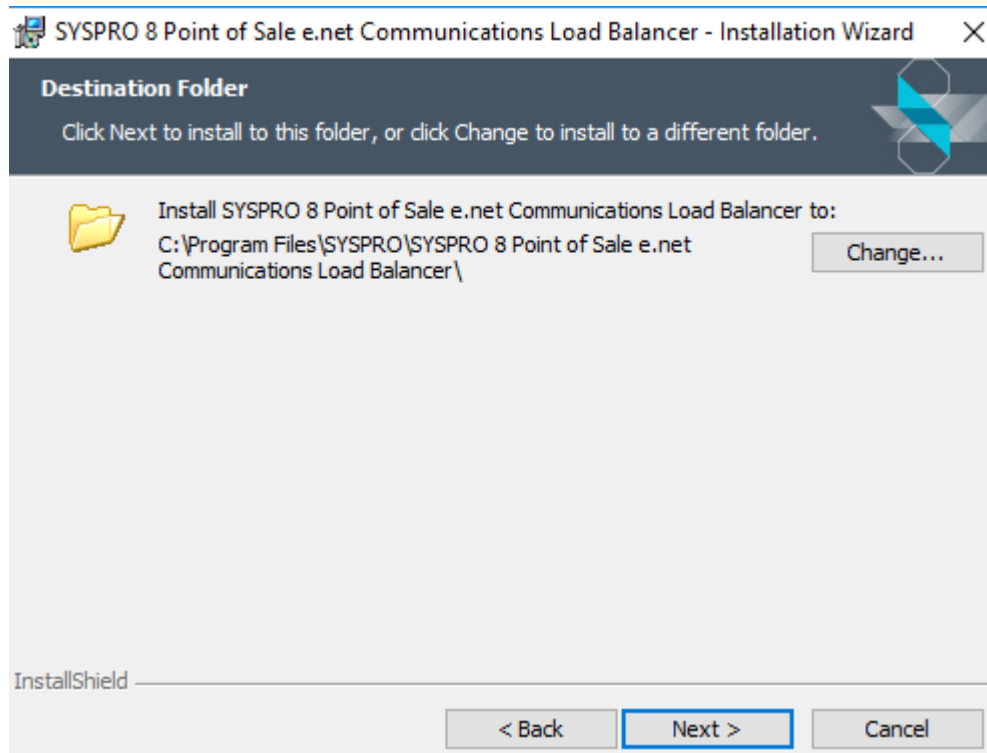
6. Select the folder you want to install the **SYSPRO 8 Point of Sale e.net Communications Load Balancer** to.

    a) You can accept the default folder or you can change the installation path by selecting **Change...**.
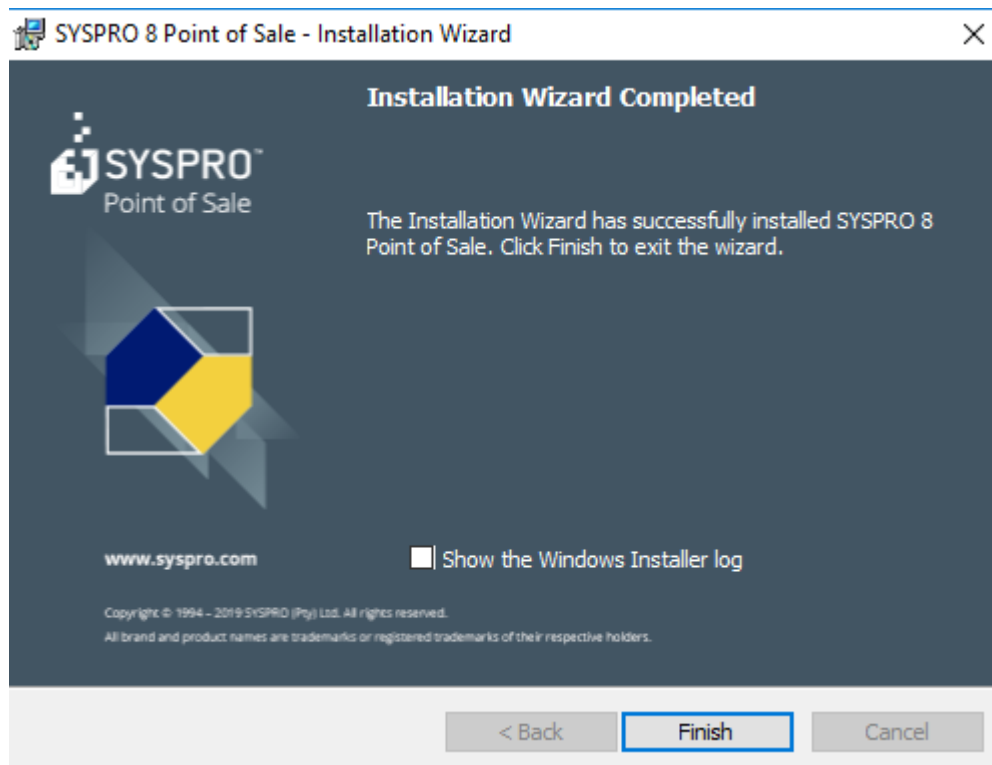
    b) Select **Next >** to continue.

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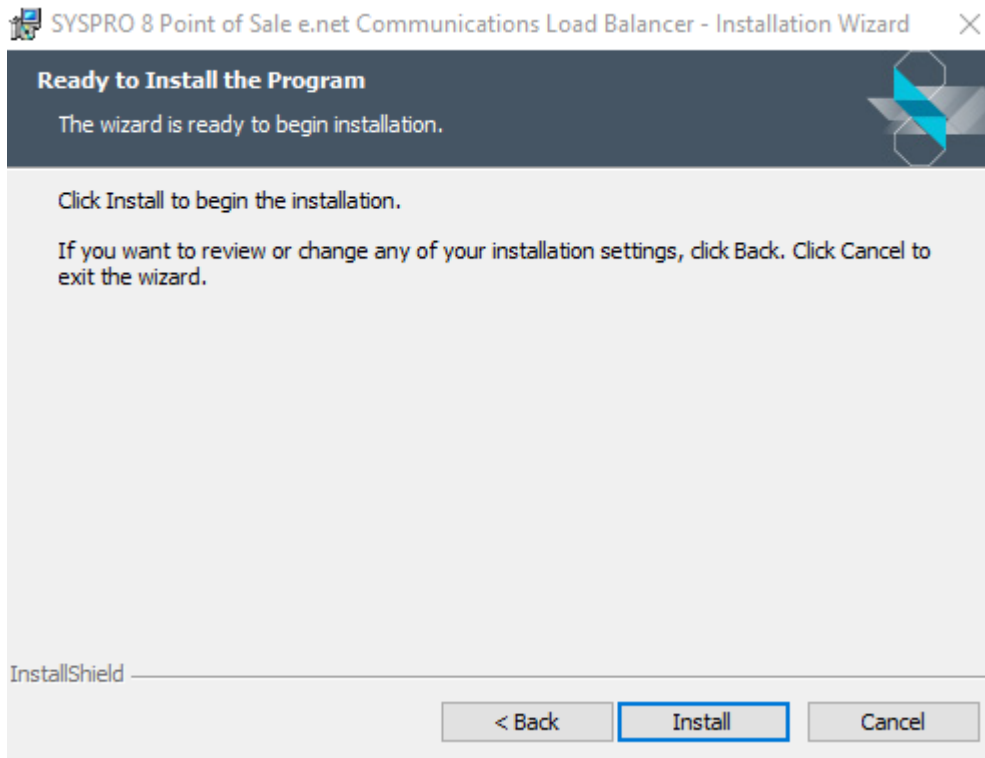
7. Select **Install**.

   The *Installation Wizard Completed* window is displayed.

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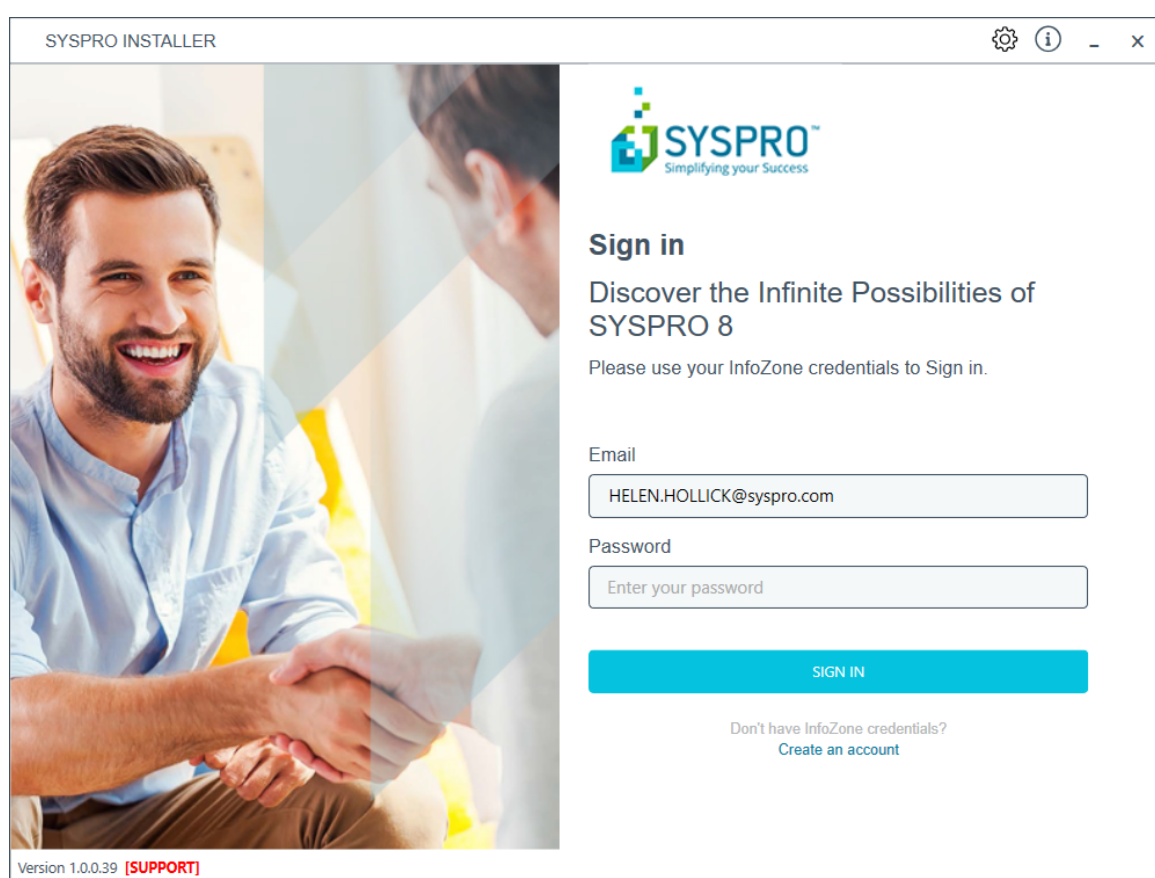   You are now ready to install **SYSPRO 8 Point of Sale Offline**.

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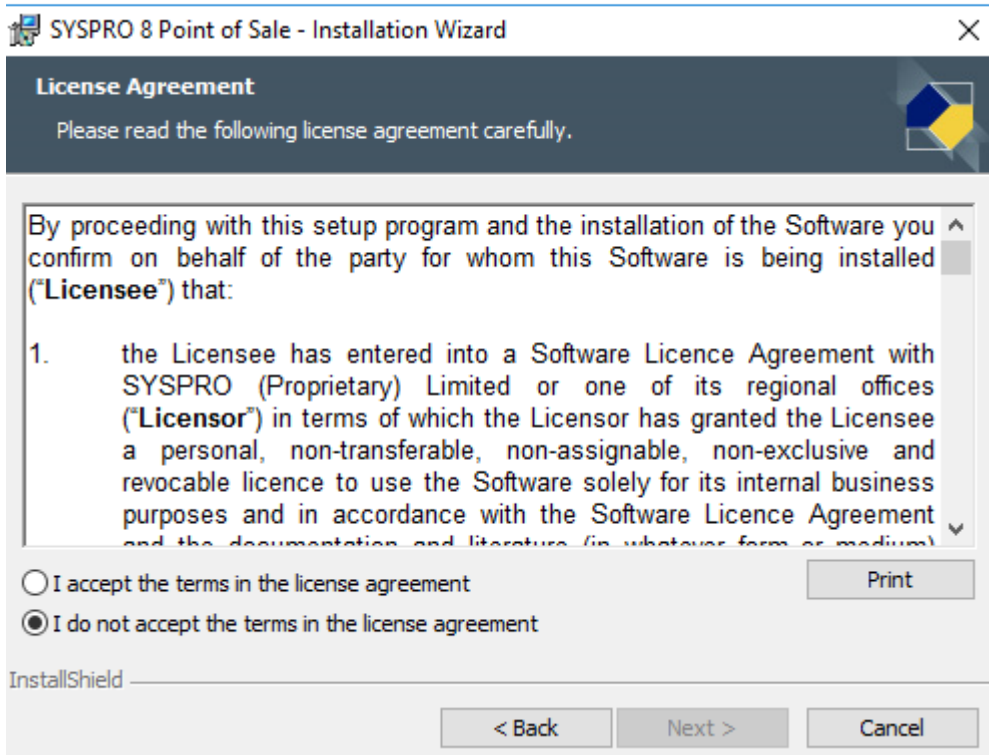
3. Accept the terms of the agreement.
   a) Read/Print the license agreement.
   b) Select **I accept the terms in the license agreement**.
   c) Select **Next >**.

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

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

The **SYSPRO Communications** window is displayed.
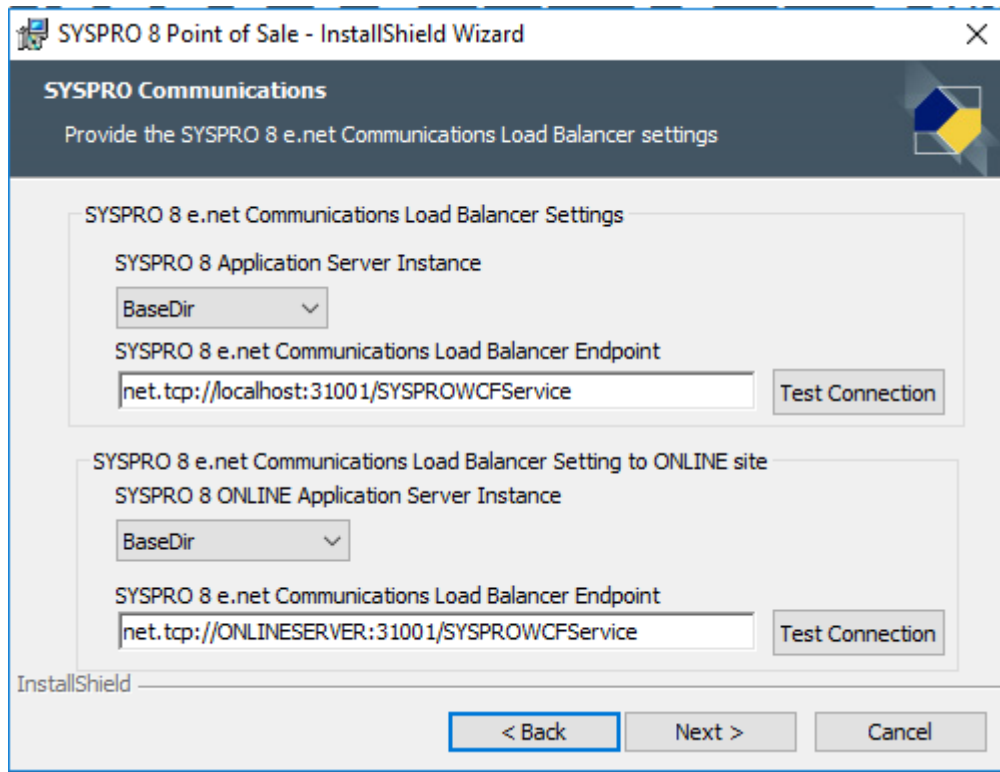
5.   Enter the required **SYSPRO 8 Communications Load Balancer** settings.

a) Accept or change the base directory for the **SYSPRO 8 Application Server Instance**.

Accept **BaseDir**.

b) Enter the URL for **SYSPRO 8 e.net Communications Load Balancer**.

Accept **net.tcp://localhost:31001/SYSPROWCFService**.

Select **Test Connection** to check that the URL is correct.

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**.

Accept **BaseDir**.

e) Provide the **SYSPRO 8 e.net Communications Load Balancer Endpoint** URL and then test the connection.

Amend ONLINESERVER to be the name of the online machine or enter the IP Address of the ONLINE machine.

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.

7. Select the **SYSPRO Company Settings**.
   a) Using the drop down select the **SYSPRO Company ID**.

   For training purposes accept EDU1.

   b) Enter the **Offline Branch** code.

   Enter *10*.

   c) Enter the **Main Online Website URL**.

   Enter **http://MACHINENAME/SYSPRO8AVANTIPOS_EDU1/**. You can enter the IP Address for the machine name.

8. Select **Next >** to continue.

   The *Web Site Configuration* window is displayed.
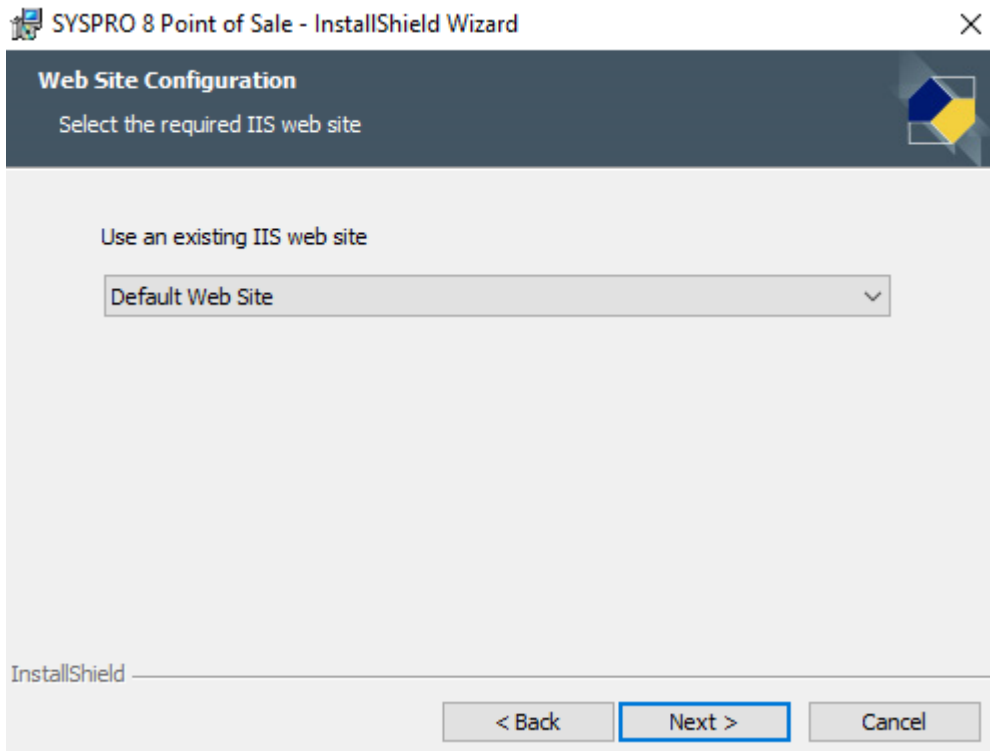
9. Select the required IIS web site.

   a) Using the drop down list select an existing IIS web site.

      Accept **Default Web Site**.

10. Select **Next >**.

    The ***Destination Folder*** window is displayed.
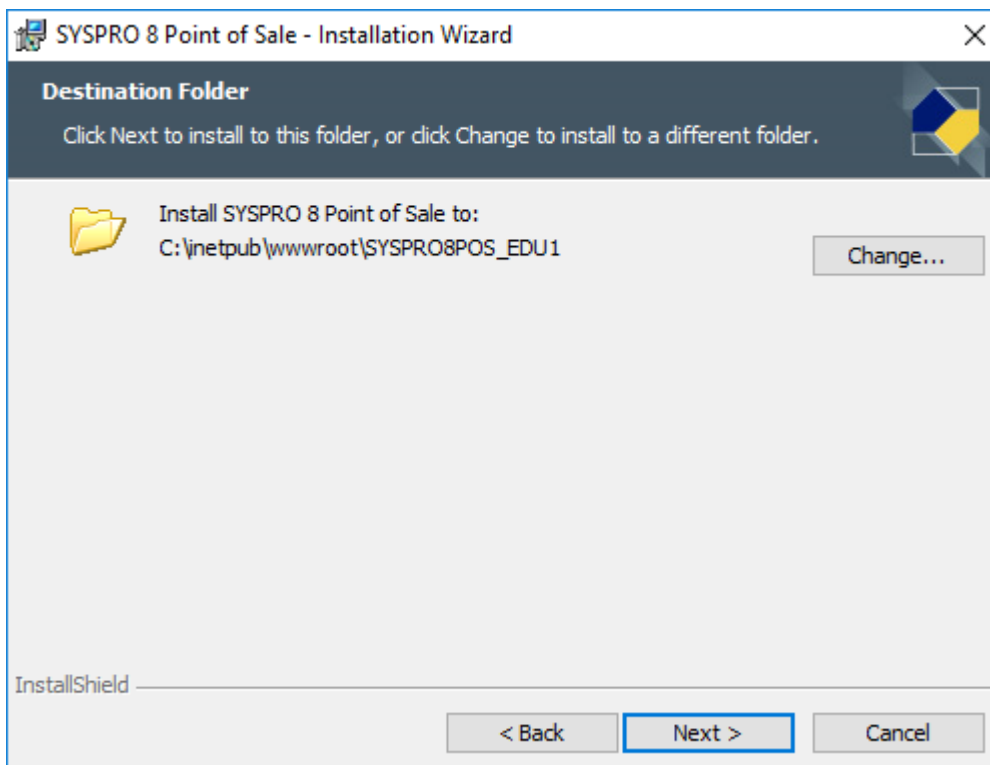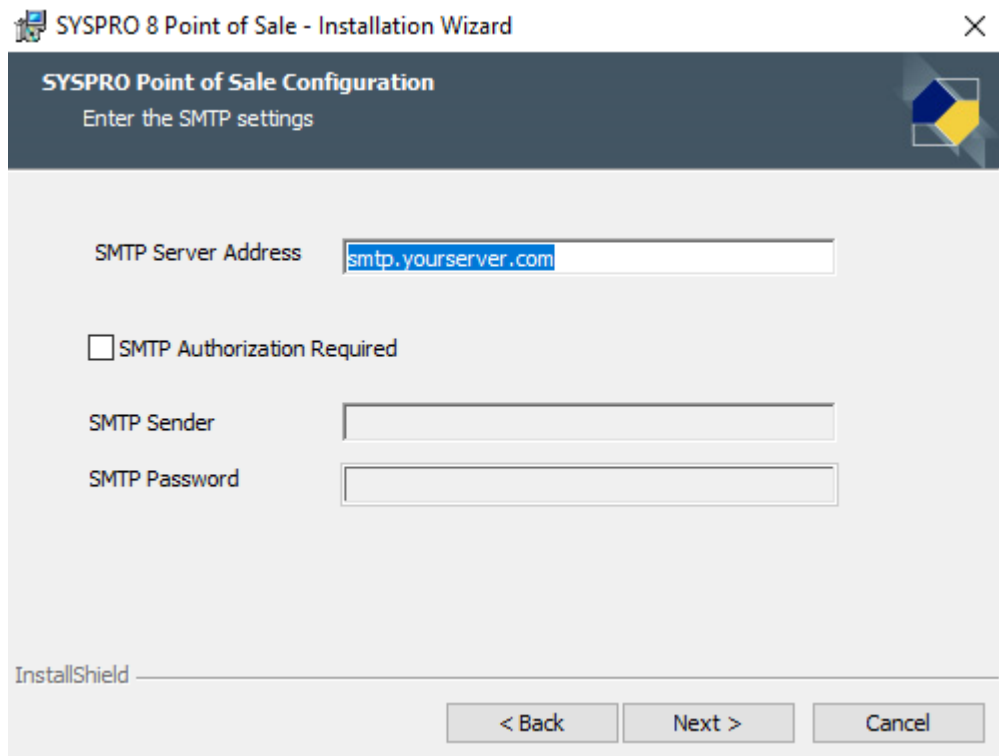
11. Accept or change where you want to install SYSPRO8 Point of Sale to.

Accept the default entry.

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**.
       Leave all fields blank for training purposes.
    e) Select **Next >** to continue.

       The *Database Server* window is displayed.

---
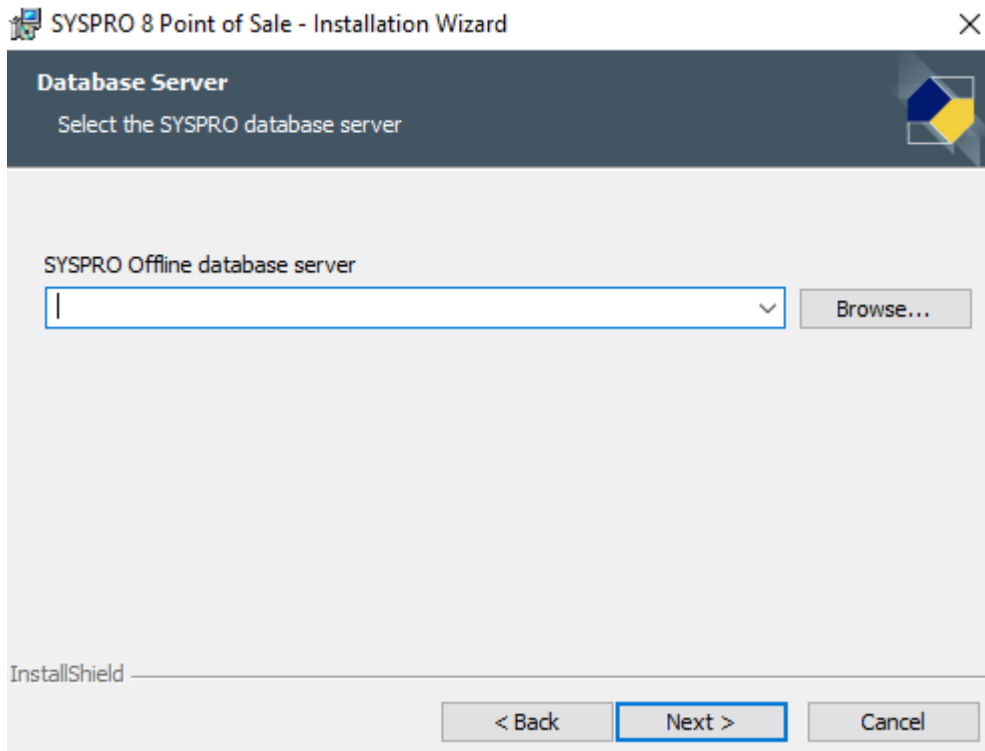
14. Using the drop down list select the name of the **SYSPRO Database Server**.
    a) You can also **Browse** for the **Database Server Name**.

    Select **(local)** for the **Database Server Name**.
    b) Select **Next >** to continue.

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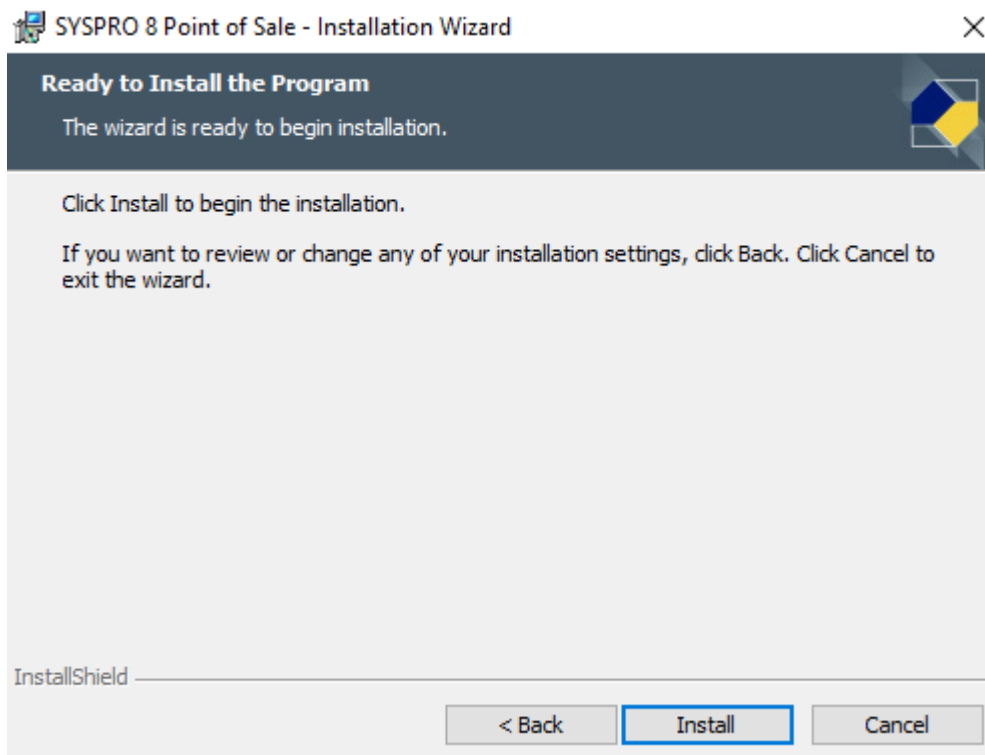
15. Select **Install**.

The *Installation Wizard Completed* window is displayed.

16. Select **Finish**.

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

Upgrading SYSPRO 8 2020 R1 to POS 8 2020 R2

How to download the SYSPRO Point of Sale Autorun

The following steps describe how to download the SYSPRO Point of Sale installation autorun. (SYSPRO 8 POS Autorun 2020 R2

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

   The **SYSPRO Installer 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 application to save your **Customer Code** and **Customer PIN** when logging in.

   > **Note:** 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 **SYSPRO Installer Sign in** window is displayed.

Note:

- 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 contains 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 **Additional Software Packages** window is displayed.
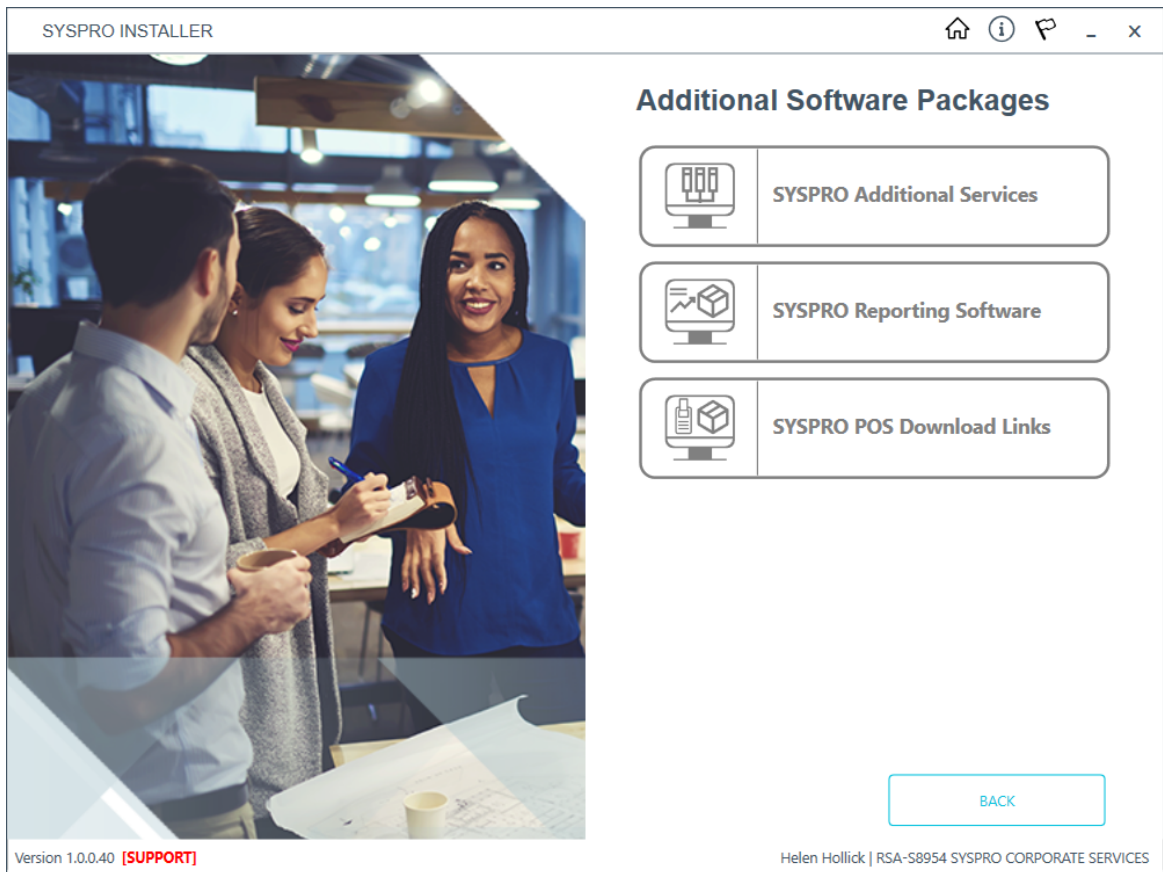
The ***Additional Software Packages*** window provides you with a list of additional software available to install from the SYSPRO Installer application.

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

The ***SYSPRO Point of Sale Download links*** window is displayed.
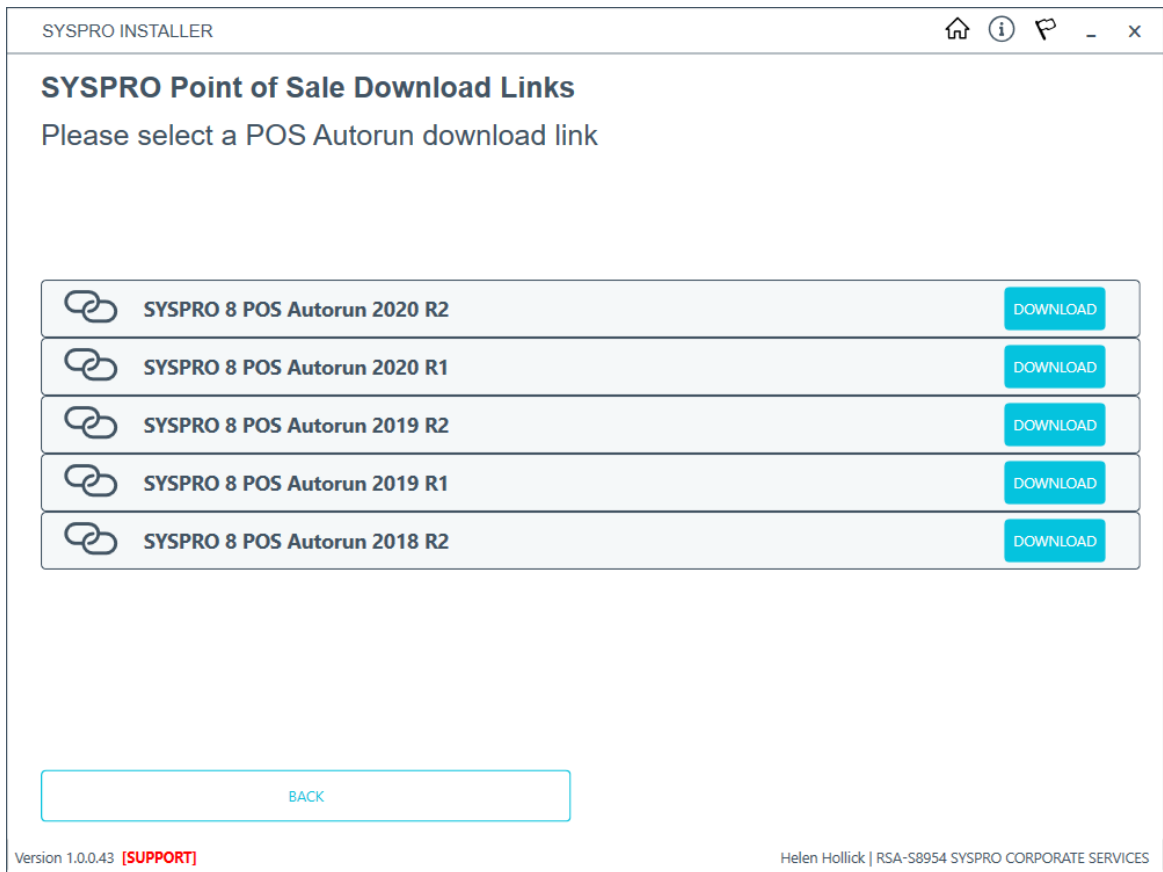
The installation files are stored on the **Deployment Share** in the syspro-additional-software folder.

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 under the release subfolder.

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

8. Select **OK**.

Upgrading POS 8 2020 R1 to POS 8 2020 R2

The following steps describe how to upgrade from POS 8 2020 to POS 8 R2

1. Navigate to SYSPRO Deployment > syspro-8-2020-r2 > SYSPRO 8 POS Autorun.
   You will see the **SYSPRO8POSAutorun_2020_R2.iso**

2. Double click on the **SYSPRO8POSAutorun_2020_R2.iso**.
   The image will open different folders with files.

3. Double click on **autorun.exe**.

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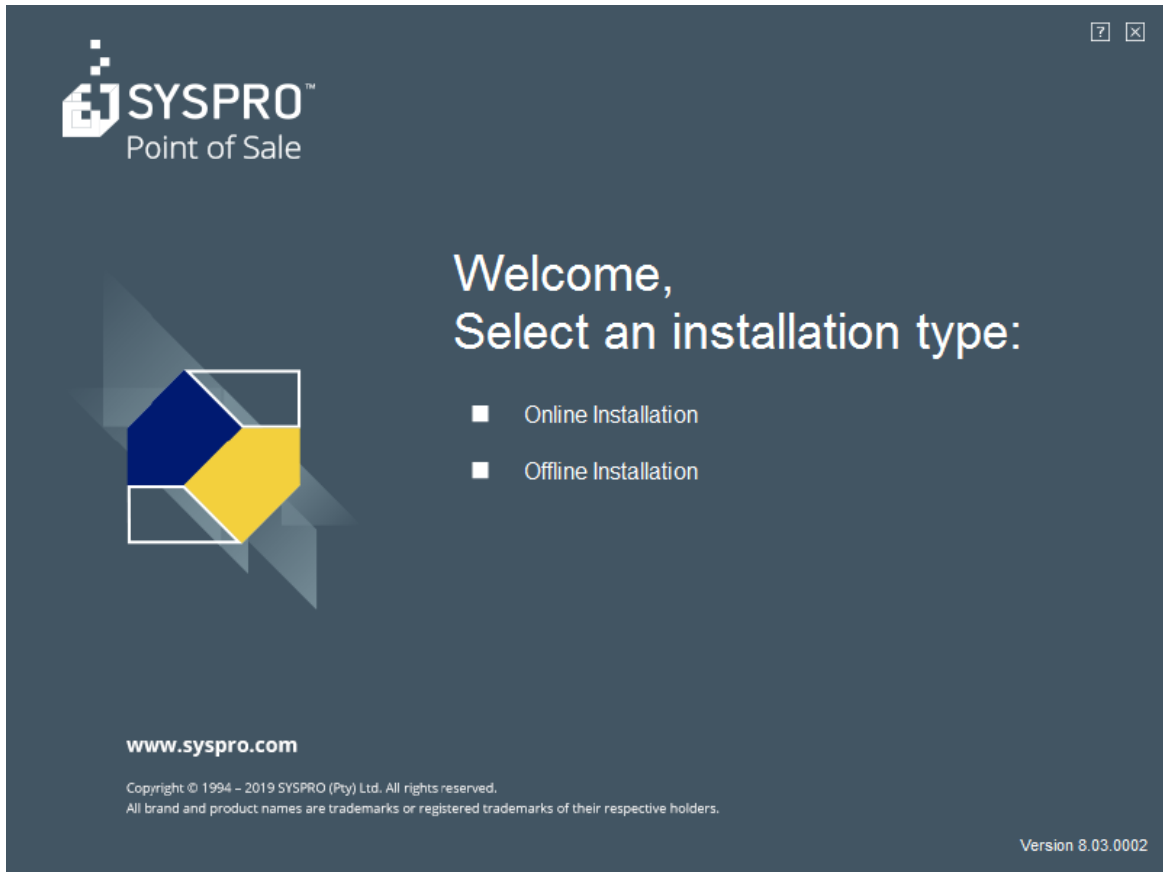
4. Select **Online Installation**.

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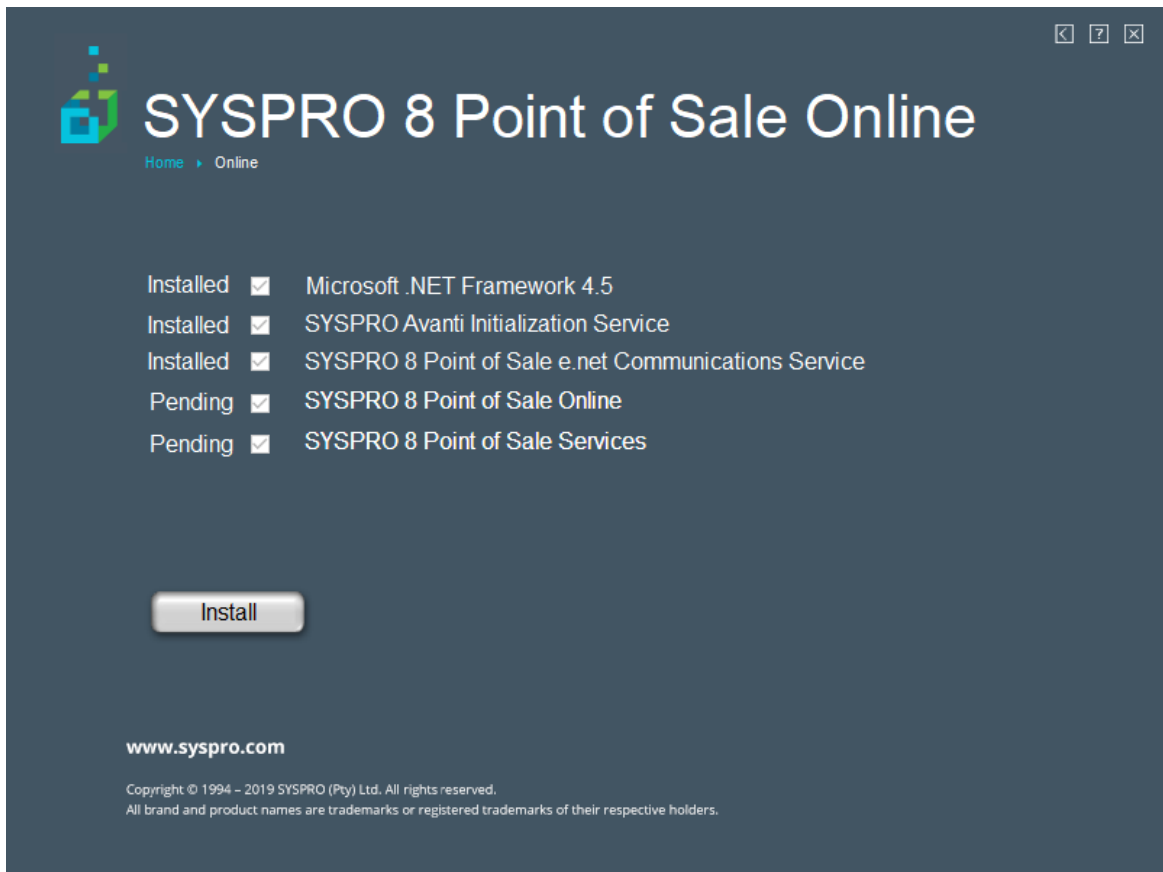
5. Select **Install**.

    The *Maintain or upgrade an existing instance* window is displayed.
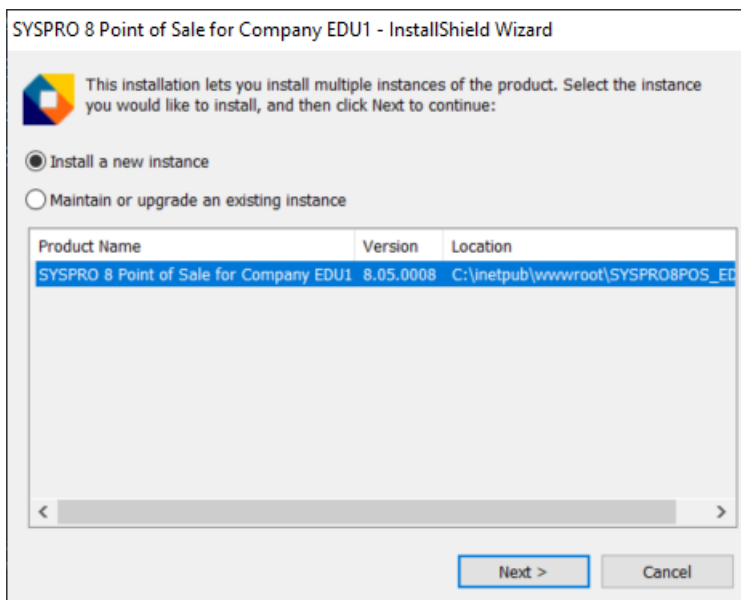
6. Select **Maintain or upgrade an existing instance** and select **Next >**.

    The *setup will perform an upgrade of SYSPRO.......*. window is displayed.
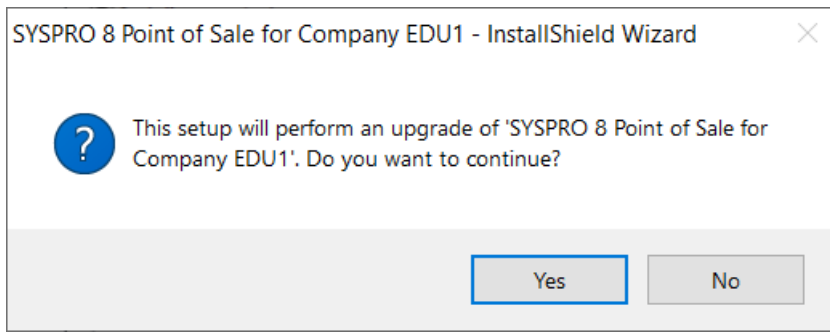
7. Select **Yes** to continue.

   The *Resuming the Installation wizard for SYSPRO 8 Point of Sale* window is displayed.

8. Select **Next >**.

   The *SYSPRO 8 Point of Sale Installer Information* window is displayed.
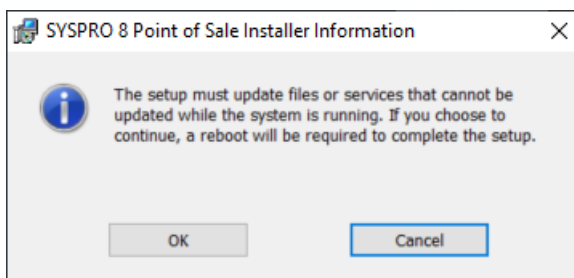
9. Select **OK** to continue.

   The *Installation Wizard Completed* window is displayed.
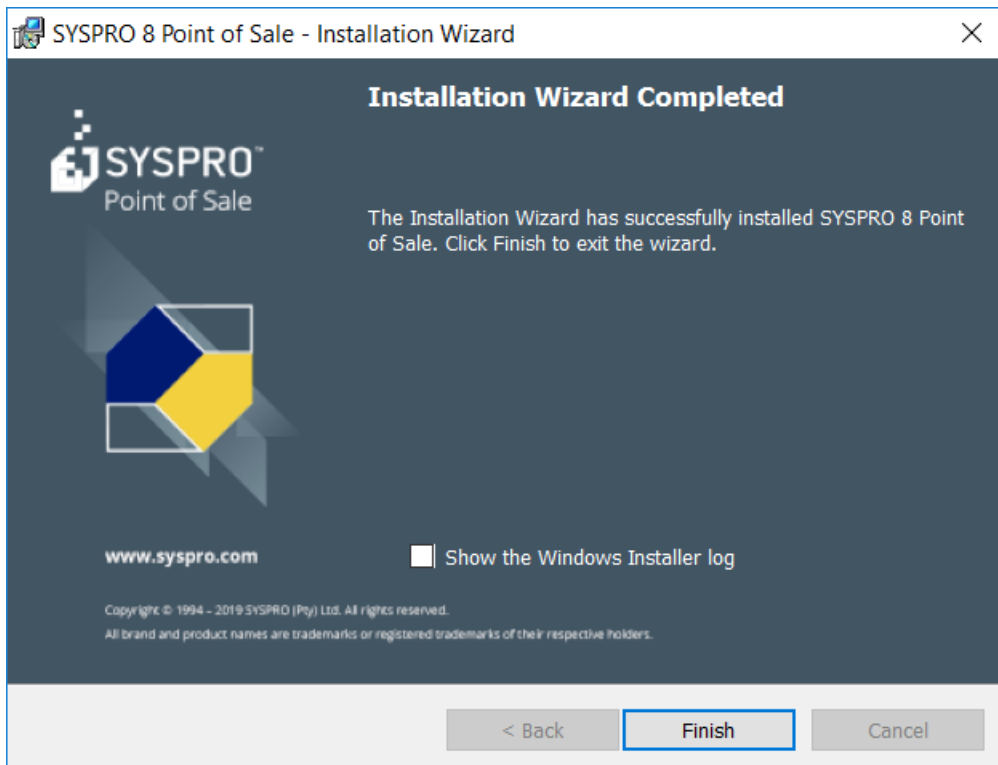
10. Click on **Finish**.

    The **setup will perform an upgrade of 'SYSPRO 8 Point of Sale Services'** window.
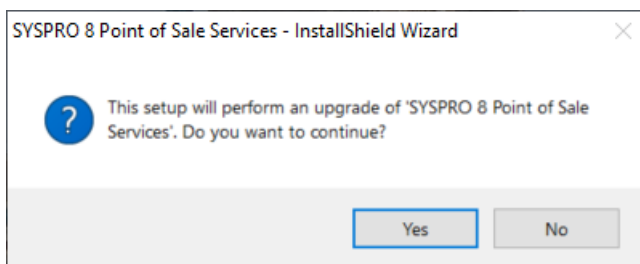
11. Select **Yes** to continue.

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

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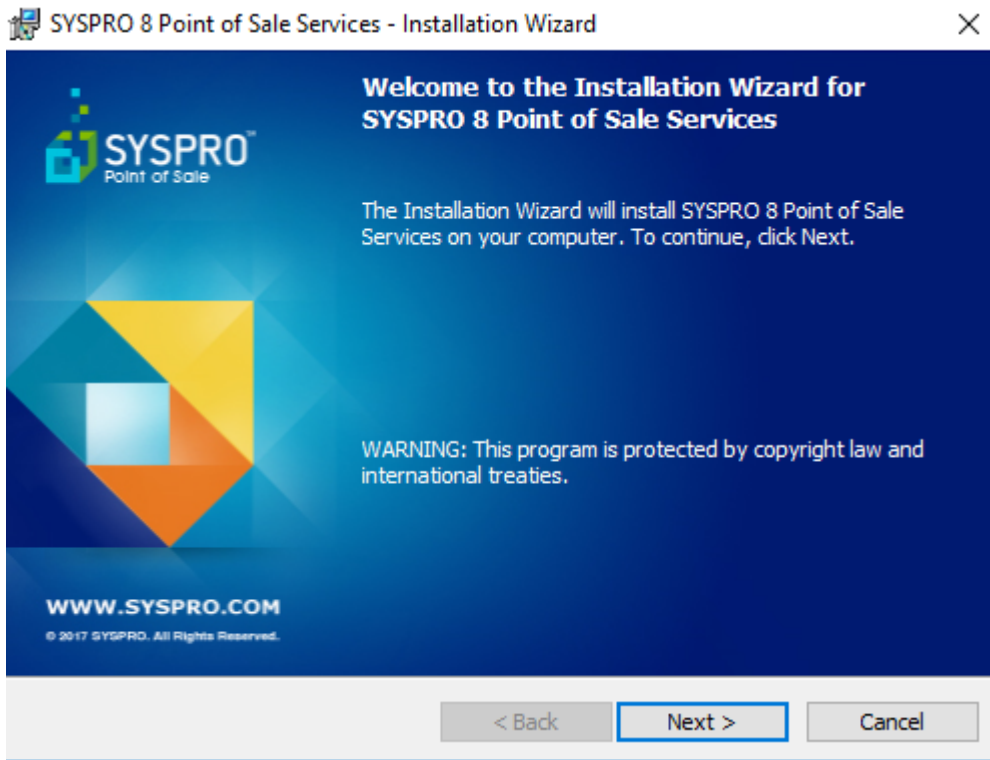
12. Select **Next >**.

    The ***Installation Wizard Completed*** window is displayed.
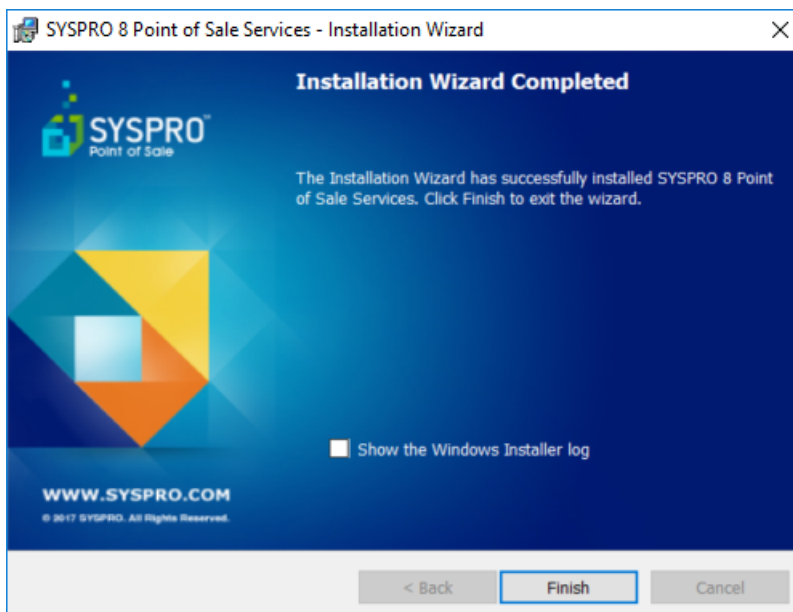
13. Select **Finish**.
    You are now upgraded to SYSPRO 8 2020 R2.

Installing Hotfixes

Installing Hotfixes for SYSPRO 8 Point of Sale

The following steps describe how to apply a hotfix for SYSPRO Point of Sale.

1. Using the **SYSPRO Installer** select to install **Hotfixes**.
   The hotfixes are downloaded to **SYSPRO Deployment > "Version of SYSPRO Software" > Hotfixes** folder.

2. The **SYSPRO Point of Sale Hotfixes** comes down as a zip file.

3. IMPUPD will move the zip file to the **SYSPRO > Base > POS** folder.

4. The file is unzipped and the appropriate files and programs copied to the branches when they sync with the **SYSPRO Application Server**.

Appendix

Script Updates

If you are not sure that the install or upgrade went through correctly you can check the scripts in the c:\SYSPRO\Base\POS\Scripts folder with the values of the columns in the _Version table for the company you have just installed or upgraded.

Example below if for an online install only.

Table dbo_Version	Column Value	C:\SYSPRO\Base\POS\Scripts
DbVersion	110	POSSchema110.sql
StandardVersion	17	POSData17.sql
SYSPROVersion	9	POSSyspro9.sql
SYSPROOfflineVersion	0	POSSysproOffline29.sql
DataSriptOnline	24	POSDataScriptOnline24.sql
DataScriptOffline	0	No script file in the folder for this example
DataScript	1	POSDataScript1.sql
SchemaScriptOnline	10	POSSchemaScriptOnline10.sql
SchemaScriptOffline	0	No script file in the folder for this example
SchemaScript	8	POSSchemaScript8.sql
SYSPROSchemaScriptOnline	0	No script file in the folder for this example
SYSPROSchemaScriptOffline	0	SYSPROSchemaScriptOffline5.sql
SYSPROSchemaScript	0	No script file in the folder for this example

Upgrading SYSPRO 7 Ports

The following steps describe how to upgrade SYSPRO 7 ports.

1. Login to the **InfoZone**.
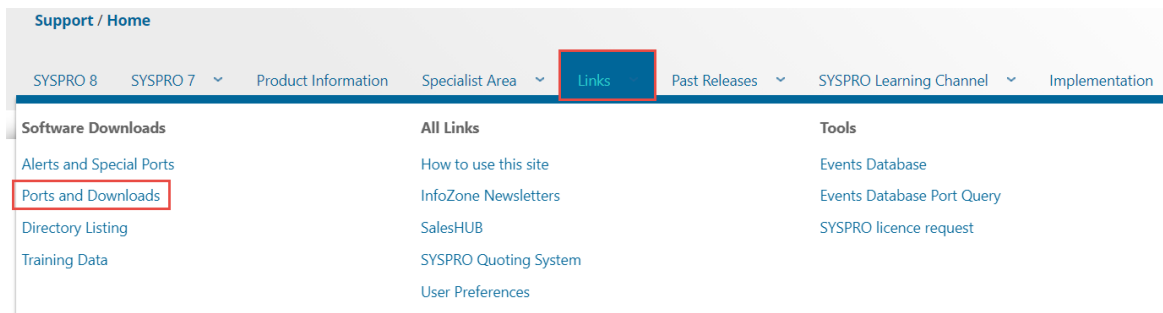
2. Once logged in navigate to **Links > Ports and Downloads**.

Port Downloads

Find out more about how to use this page

3. Select the specified **SYSPRO** port and select **Available Ports & Services** option.
4. Select the different **SYSPRO Point of Sale** components and then select **download**.

Downloadable Content

Should you wish to access downloadable content for previous versions of SYSPRO, you can use this **quick link** , then select Archive_Section, then select the relevant version.

How do I download a file?

- In some instances, you will be able to select more than one file to download by clicking on the checkboxes on the far left of the control below.
- After one or more files have been selected, click the down arrow icon.
- After one or more files have been selected, right click on the selected file and click on the down arrow icon.

Path: 046   Filter by:

#		Name	Date modified	Size
		SYSPROEspressoNotificationS...	7/24/2018 2:46:31 PM	2.13 MB
		SYSPROEspressox64.exe	11/27/2018 3:41:31 PM	7.55 MB
✓		SYSPROPointofSaleAPI.exe	4/29/2019 1:49:39 PM	5.36 MB

#		Name	Date modified	Size
✓		SYSPRO_7_POS_Offline_Found...	7/25/2016 1:32:46 PM	16.17 ...
✓		SYSPRO_Point_of_Sale.exe	4/29/2019 1:49:39 PM	33.27 ...
✓		SYSPRO_Point_of_Sale_Print_S...	9/13/2018 9:36:52 AM	6.68 MB
✓		SYSPRO_Point_of_Sale_Service...	1/30/2018 3:31:55 PM	2.64 MB
✓		SYSPRO_POINT_OF_SALE_SYS...	10/1/2015 9:15:25 AM	214.5 KB
✓		SYSPRO_Point_of_Sale_Utility_...	9/13/2018 9:38:30 AM	2.8 MB
✓		SYSPRO_WCF_Service.exe	1/22/2016 12:10:38 PM	2.28 MB

5.   Navigate to the folder that you downloaded the Point of Sale software.
6.   Run the exe.
7.   Select the option to **Maintain or upgrade an existing instance**.
     Select the instance you want to upgrade and follow the prompts.
8.   Once the upgrade is completed log into Point of Sale to check that the version is correct.

9. It is advisable that SYSPRO as well as SYSPRO Point of Sale has been upgraded:
   a) Restart SYSPRO WCF services.
   b) Restart SYSPRO Point of Sale Services (all services can be restarted)
   c) In IIS restart the respective SYSPRO Point of Sale Application Pools.
   d) In IE, clear browser cache and then load SYSPRO Point of Sale URL.
   e) Check that the correct port number is displayed

Epilogue

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Comment Sheet

Please send us your comments to help improve the standard of the workbooks. All emails can be sent to *education@syspro.com*.