

Technology Requirements

SYSPRO 8

Published: November 2022



SYSPRO 8 - Technology Requirements

The following topic outlines the technology requirements identified for **SYSPRO 8**.

SYSPRO ANALYTICS

SYSPRO ANALYTICS SERVER

Requirements to perform business analysis on your SYSPRO data:

- SQL Server Analysis Services
- SQL Server Integration Services
- Microsoft .NET Framework 4.6
- SYSPRO 8 e.net Communications Load Balancer

A valid endpoint must be configured in the **Setup Options** program of **SYSPRO 8**.

SYSPRO ANALYTICS WITH VIEWER

Requirements to perform business analysis on your SYSPRO data on a client workstation, using SYSPRO's viewer:

- Microsoft Core XML Services (MSXML) 6.0
- Microsoft .NET Framework 4.6
- OLEDB data providers for SQL Server Analysis Services
- SYSPRO 8 e.net Communications Load Balancer

A valid endpoint must be configured in the **Setup Options** program of **SYSPRO 8**.

The following versions of **Microsoft SQL Server** have been tested and verified with SYSPRO Analytics:

- SQL Server 2017 (**SYSPRO 8 2018 R2**)
- SQL Server 2016
- SQL Server 2014
- SQL Server 2012
- SQL Server 2008 R2

SYSPRO AVANTI

SYSPRO AVANTI INITIALIZATION SERVICE



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

- Microsoft .NET Framework 4.8
- SYSPRO 8 Service Upgrade Manager
- SYSPRO 8 e.net Communications Load Balancer

A valid endpoint must be configured in the **Setup Options** program of **SYSPRO 8**.

SYSPRO AVANTI



We recommend that you use **Windows Server 2019** (or higher) when running **SYSPRO Web UI (Avanti)**.

- Microsoft .NET Framework 4.6
- SYSPRO 8 Server
- SYSPRO 8 Service Upgrade Manager
- SYSPRO 8 e.net Communications Load Balancer

A valid endpoint must be configured in the **Setup Options** program of **SYSPRO 8**.

- SYSPRO 8 Avanti Initialization Service connection
- Internet Information Services (IIS) 7.0 Core Web Engine Feature
- Internet Information Services (IIS) 7.0 World Wide Web Publishing Feature
- Internet Information Services (IIS) WebSocket Protocol Feature

The following technology is required when using more than 30 instances of the **SYSPRO Web UI (Avanti)** - as defined against the **MAXIMUM NUMBER OF INSTANCES ALLOWED** setup option (*Setup Options > System Setup > System-Wide Personalization*):

- Windows Server 2022: Datacenter Edition
- SYSPRO Application Gateway service



SYSPRO BOT

- Microsoft .NET Framework 4.6
- SYSPRO 8 Service Upgrade Manager
- SYSPRO 8 e.net Communications Load Balancer

A valid endpoint must be configured in the **Setup Options** program of **SYSPRO 8**.

- Internet Information Services (IIS) 7.0 Core Web Engine Feature
- Internet Information Services (IIS) 7.0 World Wide Web Publishing Feature

SYSPRO CUSTOMIZED PANES USING .NET CONTROLS IN CUSTOMIZED PANES

Requirements to use customized panes in SYSPRO:

- Java Run Time
- Microsoft .NET Framework 4.6
- SYSPRO .NET Interop (i.e. Microsoft Interop Forms Redistributable Package 2.0a)
- Crystal Run Time (Only required when using a SRS / Crystal report type pane)

SYSPRO E.NET DIAGNOSTICS

Requirements to use the SYSPRO e.net Diagnostics harness for support purposes, or for development using e.net Solutions business objects:

- Microsoft .NET Framework 4.6
- SYSPRO 8 e.net Communications Load Balancer

A valid endpoint must be configured in the **Setup Options** program of **SYSPRO 8**.



SYSPRO e.net Diagnostics only supports SYSPRO connections using the SYSPRO 8 e.net Communications Load Balancer service, which is a prerequisite when installing **SYSPRO 8**.

SYSPRO ESPRESSO SOFTWARE REQUIREMENTS

- Microsoft .NET Framework 4.6
- SYSPRO 8 Service Upgrade Manager
- SYSPRO 8 e.net Communications Load Balancer

A valid endpoint must be configured in the **Setup Options** program of **SYSPRO 8**.

- SYSPRO 8 Espresso Notification Service
- Internet Information Services (IIS)

RECOMMENDED HARDWARE

Most mobile devices from the middle of 2017 onwards have sufficient hardware capabilities to run **SYSPRO Espresso** without any performance problems. Hardware requirements are not determined so much by the application but rather the operating system (and operating system version) installed on the mobile device. Therefore the operating system will have a far greater impact on the performance of the mobile device compared to the **SYSPRO Espresso** application.

In addition, the speed of the network connection between the mobile device and the Espresso server has an even greater performance impact than the device hardware.

Below are the minimum recommended hardware specifications:



This is only a guideline as mobile devices in a lower spectrum can still perform well within **SYSPRO Espresso**.

	Apple	Android
Storing Capacity	32GB	32GB
Display	Retina 5.5"	5.8"
Chip	A10 Fusion chip	Octa-Core 835
Camera	8MP	8MP
Memory	2GB	4GB
Operating System	IOS 11	Android 7



Multi-Factor Authentication and **Single Sign-on** are not currently supported with **SYSPRO Espresso**.

SYSPRO EXECUTIVE DASHBOARDS

EXECUTIVE DASHBOARDS

Requirements to view SYSPRO information using dashboards:

- Adobe Flash

EXECUTIVE DASHBOARDS DESIGNER

Requirements to modify existing SYSPRO dashboards or design your own dashboards:

- Adobe Flash
- Xcelsius 2010



Xcelsius is only required if you want to design your own Executive Dashboards; if you want to use the standard SYSPRO Executive Dashboards that are shipped with SYSPRO 8, you don't need to install Xcelsius.

SYSPRO HARMONY

SYSPRO's cloud-based multi-user experience platform that unites social media capabilities, internal and external collaboration, machine learning, cognitive services and data analytics into a single offering for accomplishing targeted or highly-complex tasks.

SYSPRO HARMONY

- Microsoft .NET Framework 4.6
- Microsoft SQL Server 2012 or higher
- SYSPRO 8 Service Upgrade Manager
- SYSPRO 8 e.net Communications Load Balancer

A valid endpoint must be configured in the **Setup Options** program of **SYSPRO 8**.

SYSPRO HARMONY API

- Microsoft .NET Framework 4.6
- SYSPRO 8 Service Upgrade Manager
- SYSPRO 8 e.net Communications Load Balancer

A valid endpoint must be configured in the **Setup Options** program of **SYSPRO 8**.

- Internet Information Services (IIS) 7.0 Core Web Engine Feature
- Internet Information Services (IIS) 7.0 World Wide Web Publishing Feature
- Microsoft .NET Core 1.0.1 Runtime (x64)

SYSPRO 8 MACHINE LEARNING



This service can be installed on any server as long as the **SYSPRO 8 e.net Communications Load Balancer** endpoint is configured correctly in the service's configuration file.

- Microsoft .NET Framework 4.6
- SYSPRO 8 e.net Communications Load Balancer

A valid endpoint must be configured in the **Setup Options** program of **SYSPRO 8**.

SYSPRO ODATA

- Microsoft .NET Framework 4.6
- Internet Information Services (IIS) - including:
 - .NET Core hosting bundle (version 3.1.12 or higher)



Minimum .NET Core frameworks required by the SYSPRO OData API:

- Microsoft.AspNetCore.App (version 3.1.8 or higher)
- Microsoft.NETCore.App (version 3.1.0 or higher)
- NETStandardLibrary (version 2.1.0 or higher)

- SSL Certificate for live production sites



The **SYSPRO OData** deployment must be secured by an IIS certificate.

An SSL certificate can be purchased online and deployed on the host server. It is essentially the remit of the solution platform provider to assist in deploying a valid SSL certificate into the IIS instance and to configure the solution for access on **Port 443**.

- A connection to Microsoft SQL Server
- A connection to the SYSPRO 8 e.net Communications Load Balancer via net.tcp
- SYSPRO OData Service



We strongly recommend exposing this service over HTTPS to ensure security.



SYSPRO OFFICE INTEGRATION (SOI)

Requirements to integrate your SYSPRO application with **Microsoft Office** elements (e.g. looking up SYSPRO data from within **Microsoft Word** or **Microsoft Excel**):

SYSPRO OFFICE INTEGRATION FOR OFFICE 2019

- Microsoft .NET Framework 4.6
- Visual Studio Tools for Office

SYSPRO OFFICE INTEGRATION FOR OFFICE 2016

- Microsoft .NET Framework 4.6
- Visual Studio Tools for Office

SYSPRO OFFICE INTEGRATION FOR OFFICE 2013

- Microsoft .NET Framework 4.6
- Visual Studio Tools for Office 2013 (X86 and X64)



SYSPRO Office Integration is not supported with any 64-bit version of **Microsoft Office** and is not compatible when running **Microsoft Office 365 Click-to-Run**.



SYSPRO 8 POINT OF SALE

- Microsoft .NET Framework 4.6
- SYSPRO 8 Service Upgrade Manager
- SYSPRO 8 Runtime
- SYSPRO 8 Point of Sale e.net Communication Service

A valid endpoint must be configured in the **Setup Options** program of **SYSPRO 8**.

- SYSPRO 8 Point of Sale Synchronize Service
- SYSPRO Point of Sale
- SYSPRO 8 Avanti Initialization Service



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

- SYSPRO POS Offline Foundation (for offline branches)
- Internet Information Services (IIS) WebSocket Protocol Feature

The following versions of **Microsoft SQL Server** have been tested and verified with **SYSPRO Point of Sale**:

- SQL Server 2017
- SQL Server 2016
- SQL Server 2014
- SQL Server 2012

SYSPRO PRODUCT CONFIGURATOR (WEB-BASED)

Requirements to use the web-based version of the Product Configurator:

- Microsoft .NET Framework 4.6
- SYSPRO 8 e.net Communications Load Balancer

A valid endpoint must be configured in the **Setup Options** program of **SYSPRO 8**.

- Internet Information Server (IIS) 7.0

SYSPRO REPORTING SERVICES (SRS)



The **SYSPRO 8 Reporting Host Service** must be installed on the same application server as the **SYSPRO 8** Server.

SYSPRO Additional Reporting Software 2020

(Available from **SYSPRO 8 2021 R2** onwards)

- Server Side Software:

- Microsoft .NET Framework 4.6
- SAP Crystal Reports Server 2020
- SYSPRO 8 Runtime
- SYSPRO 8 Reporting Host Service

- Client-Side Software:

Requirements to print SYSPRO reports using the SRS technology, via client-side:

- Microsoft .NET Framework 4.6
- SAP Crystal Reports Runtime Engine
- SYSPRO 8 Runtime
- SYSPRO 8 Reporting Components

- Designer Software:

Requirements to change the standard SYSPRO SRS reports or design your own reports / documents, via client-side:

- Microsoft .NET Framework 4.6
- SAP Crystal Reports Runtime Engine
- SYSPRO 8 Runtime
- SYSPRO 8 Reporting Components
- SAP Crystal Reports 2020 SP2
- BusinessObjects .NET SDK 64bit 4.3 SP2
- SYSPRO 8 Reporting Designer Addin



SYSPRO Additional Reporting Software 2016

(Available from **SYSPRO 8 2020 R2** to **SYSPRO 8 2021 R2**)

- Server Side Software:

- Microsoft .NET Framework 4.6
- SAP Crystal Reports Server 2016 SP8
- SYSPRO 8 Runtime
- SYSPRO 8 Reporting Host Service
- SAP BusinessObjects BI platform .NET SDK Redistributable 64bit 4.2 SP8

- Client-Side Software:

Requirements to print SYSPRO reports using the SRS technology, via client-side:

- Microsoft .NET Framework 4.6
- Business Objects Runtime 2016 x86
- SYSPRO 8 Runtime
- SYSPRO 8 Reporting Components

- Designer Software:

Requirements to change the standard SYSPRO SRS reports or design your own reports / documents, via client-side:

- Microsoft .NET Framework 4.6
- Business Objects Runtime 2016 x86
- SYSPRO 8 Runtime
- SYSPRO 8 Reporting Components
- SAP BusinessObjects BI platform .NET SDK Redistributable 64bit 4.2 SP8
- SAP Crystal Reports 2016 SP8
- SYSPRO 8 Reporting Designer Addin

SYSPRO Additional Reporting Software 2013

(Available up to and including **SYSPRO 8 2020 R1**)

■ Client-Side Software:

Requirements to print SYSPRO reports using the SRS technology, via client-side:

- Microsoft .NET Framework 4.6
- SAP Crystal Reports Runtime engine
- SYSPRO 8 Reporting Components
- SYSPRO 8 Runtime

■ Designer Software:

Requirements to change the standard SYSPRO SRS reports or design your own reports / documents, via client-side:

- Microsoft .NET Framework 4.6
- SAP Crystal Reports Runtime engine
- SYSPRO 8 Runtime
- SYSPRO 8 Reporting Components
- SAP Crystal Reports 2013 SP6
- SAP Crystal Reports 2013 SP8 update
- BI platform .NET SDK Redistributable
- SYSPRO 8 Reporting Designer Addin



The SYSPRO 8 Reporting Components enable you to print reports through SYSPRO when the **REPORTING CONFIGURATION** setup option is defined as **Client-side reporting using SQL** or **Client-side reporting using XML** (*Setup Options > System Setup > Reporting*).



SYSPRO 8 RULES ENGINE

- Microsoft .NET Framework 4.6
- SYSPRO 8 Service Upgrade Manager
- SYSPRO 8 e.net Communications Load Balancer

A valid endpoint must be configured in the **Setup Options** program of **SYSPRO 8**.

SYSPRO 8 SERVER

- Microsoft .NET Framework 4.6
- SYSPRO 8 Runtime
- SYSPRO 8 e.net Communications Load Balancer

A valid endpoint must be configured in the **Setup Options** program of **SYSPRO 8**.

SYSPRO SUPPLY CHAIN PORTAL

- Microsoft .NET Framework 4.6
- SYSPRO 8 Service Upgrade Manager
- SYSPRO 8 Avanti Initialization Service
- Internet Information Services (IIS) 7.0 Core Web Engine Feature
- Internet Information Services (IIS) 7.0 World Wide Web Publishing Feature
- SYSPRO 8 Reporting Host Service

SYSPRO WEB SERVICES

Requirements to view SYSPRO information in a web environment:

- Microsoft .NET Framework 4.6
- Internet Information Server (IIS) 7.0
- SYSPRO 8 e.net Communications Load Balancer

A valid endpoint must be configured in the **Setup Options** program of **SYSPRO 8**.



SYSPRO Web Services is a wrapper around the SYSPRO 8 e.net Communications Load Balancer service, which is a prerequisite when installing **SYSPRO 8**.



SYSPRO WORKFLOW SERVICES

Requirements to design and use a Workflow to optimize your business processes:

- Microsoft .NET Framework 4.6
- SYSPRO 8 Service Upgrade Manager
- SYSPRO 8 e.net Communications Load Balancer

A valid endpoint must be configured in the **Setup Options** program of **SYSPRO 8**.



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