

Technology Requirements

SYSPRO 8

Published: August 2021



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 4.6
- 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 AVANTI



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

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

SYSPRO's mobile platform which allows you to access business data from any location at any time on any device.

- 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 with **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

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 to secure access to the solution.



An SSL certificate can be purchased online and deployed on the host server. However, it is essentially the remit of the solution platform provider to assist in the deployment of 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 Word or 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 8 POINT OF SALE

- Microsoft .NET Framework 4.5
- SYSPRO 8 Avanti Initialization Service
- SYSPRO 8 Point of Sale e.net Communication Service
- SYSPRO 8 Point of Sale Services
- SYSPRO 8 Runtime
- 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)

SYSPRO REPORTING SERVICES



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

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

- Java Runtime 1.7 minimum
- SAP Crystal Reports runtime engine for .NET Framework (32-bit)
- SYSPRO 8 Reporting Components
- Microsoft .NET Framework 4.6

SYSPRO REPORTING SERVICES DESIGNER

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

SYSPRO 8 2020 R2 and onwards

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

SYSPRO 8 2020 R1 and prior versions

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

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 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**.



www.syspro.com

Copyright © SYSPRO. All rights reserved.
All brand and product names are trademarks or
registered trademarks of their respective holders.

