

PAC Machine Edition, Change Management, and Productivity Suite System Requirements

Version 10.7.222 (PME, PCM) and 10.7.223 (PPS)

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Section 1: All Product Components - Operating System Compatibility Matrix

This section provides a consolidated view of all supported operating systems across the product’s deployment scenarios. It serves as a quick reference for customers to understand compatibility between the application and various Windows desktop and server editions. By presenting this information in a single, structured matrix, the section helps ensure clarity during planning, installation, and long-term maintenance, allowing organizations to easily confirm whether their chosen environment aligns with the product’s supported platforms.

Operating System (64-bit versions)	OS Version	PME Suite	PCM	PPS	View And PC Control	PACSystems Simulator
Windows 11 Pro	25H2	✓	✓	✓	✓	✓
Windows 11 Enterprise	25H2	✓	✓	✓	✓	✓
Windows 11 Enterprise LTSC	2024 (24H2)	✓	✓	✓	✓	✓
Windows 11 IoT Enterprise	25H2	✓	✓	✓	✓	✓
Windows 11 IoT Enterprise LTSC	2024 (24H2)	✓	✓	✓	✓	✓
Windows 10 Pro	22H2	✓	✓	✓	✓	✓
Windows 10 Enterprise	22H2	✓	✓	✓	✓	✓
Windows 10 Enterprise LTSC	2021 (21H2)	✓	✓	✓	✓	✓
Windows 10 IoT Enterprise	22H2	✓	✓	✓	✓	✓
Windows 10 IoT Enterprise LTSC	2021 (21H2)	✓	✓	✓	✓	✓
Windows Server 2025	24H2	✓	✓	X ¹	✓	✓

¹ CIMPLICITY 2022 is not supported in Windows Server 2025. PAC Productivity Suite version 10.7.222 includes CIMPLICITY 2022.

Operating System (64-bit versions)	OS Version	PME Suite	PCM	PPS	View And PC Control	PACSystems Simulator
Windows Server 2022	21H2	✓	✓	✓	✓	✓
Windows Server 2019	1809	✓	✓	✓	✓	✓
Windows Server 2016	1607	✓	✓	✓	✓	X ²

The following Anti-Virus are supported when using PACSystems Software:

- Norton Deluxe
- McAfee Plus
- Bitdefender Total Security
- Trend Micro Maximum
- CrowdStrike Enterprise
- Windows Defender

² CIMPPLICITY 2022 is not supported in Windows Server 2025. PAC Productivity Suite version 10.7.222 includes CIMPPLICITY 2022.

Section 2: PAC Machine Edition 10.7.222

This section defines the technical baseline required to deploy, operate, and maintain the system within a supported and stable computing environment. It specifies the approved operating systems, minimum and recommended hardware specifications for physical hosts, constraints and configuration expectations for virtualized deployments, and additional miscellaneous prerequisites if any. These requirements ensure deterministic performance, compatibility with supported platforms, and adherence to operational reliability standards across all system roles.

2.1 Operating System Requirements

This section outlines the supported operating systems required to install and run the software reliably. Meeting these operating system requirements ensures compatibility, stability, and full access to all features. Systems that do not meet these requirements may experience reduced performance or limited functionality.

Operating System (64-bit versions)	OS Version	Lite Suite	Professional Suite	ProPlus Suite	QuickPanel CE Suite
Windows 11 Pro	25H2	√	√	√	√
Windows 11 Enterprise	25H2	√	√	√	√
Windows 11 Enterprise LTSC	2024 (24H2)	√	√	√	√
Windows 11 IoT Enterprise	25H2	√	√	√	√
Windows 11 IoT Enterprise LTSC	2024 (24H2)	√	√	√	√
Windows 10 Pro	22H2	√	√	√	√
Windows 10 Enterprise	22H2	√	√	√	√
Windows 10 Enterprise LTSC	2021 (21H2)	√	√	√	√
Windows 10 IoT Enterprise	22H2	√	√	√	√
Windows 10 IoT Enterprise LTSC	2021 (21H2)	√	√	√	√
Windows Server 2025	24H2	√	√	√	√
Windows Server 2022	21H2	√	√	√	√
Windows Server 2019	1809	√	√	√	√
Windows Server 2016 ³	1607	√	See Note 1	See Note 1	√

³ PACSystems Simulator is not supported in Windows Server 2016.

Note 1: All features in the product offering are supported on this operating system except the PACSystems Simulator.

Tools That Require Administrator Privileges in PAC Machine Edition. Some features of PAC Machine Edition are not supported when running without elevated access. When using the following features, you can lower your *User Account Control* settings and/or set up PAC Machine Edition Engineering to always *Run As Administrator*.

- View and PC Control Logic Runtimes
- EGD Management Tool; for configuration settings changes.
- PROFINET DCP Tool
- PAC8000 I/O Configuration Tool
- PACSAnalyzer
- IEC61850
- Workstations connected to the PLC via a serial connection

The table		Operating System Language			
PME Product	Regional Settings ¹	English	German or French (single-byte)	Simplified Chinese (double-byte)	Russian (Cyrillic)
QuickPanel CE Development Suite	U. S.	Yes	Yes	Yes	Yes
Lite Development Suite	Local				
Professional Development Suite					
ProPlus Development Suite					

Note: Regional settings include numbers, currency, time, and date settings.

2.2 Physical Machine System Requirements

This section outlines the hardware specifications required to run the application on physical machines across supported Windows operating systems. The goal is to ensure consistent performance, stability, and compatibility in environments where the application is installed directly on a workstation or server. The requirements described here provide a baseline for reliable operation, while acknowledging that higher

performance hardware may be beneficial for more demanding workloads or larger scale deployments.

Using the recommended hardware configuration—or a higher tier—provides significantly improved performance compared to the minimum specification and is required when running multiple concurrent instances. Actual performance will vary based on project size and the number of active instances. Each instance consumes the full set of resources required for a standalone execution, and running an excessive number of instances can lead to system instability. As a general guideline, systems can support up to **three instances for small projects** and up to **two instances for large projects**. Exceeding these limits will likely result in degraded performance. A project is considered **large** if it exceeds **125,000 variables, 128 blocks, 10 targets**, or any combination of these thresholds.

When the PACSystems Simulator is used in conjunction with PAC Machine Edition, the recommended system settings become mandatory to ensure stable operation and accurate simulation performance.

The table below outlines the minimum and recommended system requirements necessary for reliable installation and operation of PAC Machine Edition in a physical machine environment.

PME Product	OS	Minimum	Recommended
QuickPanel CE Development Suite	Windows 10	1 GHz CPU (64-bit Intel/AMD)	2 GHz CPU (64-bit Intel/AMD)
Lite Development Suite		2 Cores 8GB RAM 32 GB free storage	4 cores 16GB RAM minimum 32GB free storage
Professional Development Suite	Windows 11	1 GHz CPU (64-bit Intel/AMD)	2 GHz CPU (64-bit Intel/AMD)
ProPlus Development Suite		2 Cores 8GB RAM 32GB free storage TPM 2.0	4 cores 16GB RAM minimum 32GB free storage TPM 2.0
(Note: Recommended settings are required when running multiple concurrent instances).	Windows Server	1.4 GHz CPU (64-bit Intel/AMD) 2 Cores 8GB RAM 32GB free storage	2 GHz CPU (64-bit Intel/AMD) 4 Cores 16GB RAM minimum 32GB storage

2.3 Virtualized Environment System Requirements

This section defines the hardware and configuration requirements for running the application within supported virtualized environments. Because performance in a virtual machine depends not only on the guest operating system but also on the capabilities and configuration of the underlying host, these guidelines outline the minimum and recommended resources needed to ensure stable and efficient operation. The information provided applies to deployments on VMware Workstation and VMware ESXi, offering a consistent baseline that customers can adapt to their specific virtualization infrastructure.

Supported Virtualization Platforms:

- VMWare Player or Workstation
- VMWare ESXi

To run VMware on your host machine, the system must meet the required operating system specifications, support and enable hardware virtualization technologies such as VTx or AMDV.

Using the recommended hardware configuration—or a higher tier—provides significantly improved performance compared to the minimum specification and is required when running multiple concurrent instances. Actual performance will vary based on project size and the number of active instances. Each instance consumes the full set of resources required for a standalone execution, and running an excessive number of instances can lead to system instability. As a general guideline, systems can support up to **three instances for small projects** and up to **two instances for large projects**. Exceeding these limits will likely result in degraded performance. A project is considered **large** if it exceeds **125,000 variables, 128 blocks, 10 targets**, or any combination of these thresholds.

When the PACSystems Simulator is used in conjunction with PAC Machine Edition, the recommended system settings become mandatory to ensure stable operation and accurate simulation performance.

The table below outlines the minimum and recommended system requirements necessary for reliable installation and operation of PAC Machine Edition in a virtualized environment.

PME Product	OS	VMWare Player/Workstation & EXSi	
		Minimum	Recommended
QuickPanel CE Development Suite	Windows 10	2 vCPU	4 vCPU
Lite Development Suite		8GB RAM	16GB RAM
Professional Development Suite	Windows 11	32GB free storage	32GB free storage
ProPlus Development Suite		8GB RAM	16GB RAM

PME Product	OS	VMWare Player/Workstation & EXSi	
		Minimum	Recommended
(Note: Recommended settings are required when running multiple concurrent instances).		32GB free storage vTPM	32GB free storage vTPM Enable Virtualization
	Windows Server 2025	2 vCPU 8GB RAM 32GB free storage	4 vCPU 16GB RAM 32GB free storage Enable Virtualization
	Windows Server 2022		

Section 3: View and PC Control Runtime

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This section defines the technical baseline required to deploy, operate, and maintain the system within a supported and stable computing environment. It specifies the approved operating systems, minimum and recommended hardware specifications for physical hosts, constraints and configuration expectations for virtualized deployments, and additional miscellaneous prerequisites if any. These requirements ensure deterministic performance, compatibility with supported platforms, and adherence to operational reliability standards across all system roles.

These guidelines apply only to using a PC as a QuickPanel+ runtime station. They do not cover configuration or application development using the QP+ Development Suite.

When you install only View Runtime or Control Runtime from the ISO, the Runtime executables are automatically updated from the development computer when the project is downloaded.

3.1 Operating System Requirements

This section outlines the supported operating systems required to install and run the software reliably. Meeting these operating system requirements ensures compatibility, stability, and full access to all features. Systems that do not meet these requirements may experience reduced performance or limited functionality.

Operating System (64-bit versions)	OS Version	Professional Development Suite
Windows 11 Pro	25H2	√
Windows 11 Enterprise	25H2	√
Windows 11 Enterprise LTSC	2024 (24H2)	√
Windows 11 IoT Enterprise	25H2	√
Windows 11 IoT Enterprise LTSC	2024 (24H2)	√
Windows 10 Pro	22H2	√
Windows 10 Enterprise	22H2	√
Windows 10 Enterprise LTSC	2021 (21H2)	√

Windows 10 IoT Enterprise	22H2	✓
Windows 10 IoT Enterprise LTSC	2021 (21H2)	✓
Windows Server 2025	24H2	✓
Windows Server 2022	21H2	✓
Windows Server 2019	1809	✓
Windows Server 2016	1607	✓

3.2 Physical Machine System Requirements

This section outlines the hardware specifications required to run the application on physical machines across supported Windows operating systems. The goal is to ensure consistent performance, stability, and compatibility in environments where the application is installed directly on a workstation or server. The requirements described here provide a baseline for reliable operation, while acknowledging that higher performance hardware may be beneficial for more demanding workloads or larger scale deployments.

The table below outlines the minimum and recommended system requirements necessary for reliable installation and operation of View and PC Control Runtime in a physical machine environment.

Product	OS	Minimum (Small Projects)	Recommended (All project sizes)
Professional Development Suite	Windows 10	1 GHz CPU (64-bit Intel/AMD) 2 Cores 8GB RAM 32GB free storage	2 GHz CPU (64-bit Intel/AMD) 4 cores 16GB RAM minimum 32GB free storage
	Windows 11	1 GHz CPU (64-bit Intel/AMD) 2 Cores 8GB RAM 32GB free storage TPM 2.0	2 GHz CPU (64-bit Intel/AMD) 4 cores 16GB RAM minimum 32GB free storage TPM 2.0
	Windows Server	1.4 GHz CPU (64-bit Intel/AMD) 2 Cores 8GB RAM 32GB free storage	2 GHz CPU (64-bit Intel/AMD) 4 Cores 16GB RAM minimum 32GB storage

See your sales representative for server system recommendations based on your projected number of View and Control Clients and the projected size of your project database.

3.3 Virtualized Environment System Requirements

This section defines the hardware and configuration requirements for running the application within supported virtualized environments. Because performance in a virtual machine depends not only on the guest operating system but also on the capabilities and configuration of the underlying host, these guidelines outline the minimum and recommended resources needed to ensure stable and efficient operation. The information provided applies to deployments on VMware Workstation and VMware ESXi, offering a consistent baseline that customers can adapt to their specific virtualization infrastructure.

Supported Virtualization Platforms:

- VMWare Player or Workstation
- VMWare ESXi

To run VMware on your host machine, the system must meet the required operating system specifications, support and enable hardware virtualization technologies such as VTx or AMDV.

When the PACSystems Simulator is used in conjunction with View and PC Control Runtime, the recommended system settings become mandatory to ensure stable operation and accurate simulation performance.

The table below outlines the minimum and recommended system requirements necessary for reliable installation and operation of PAC Machine Edition in a Virtualized environment.

Product	OS	VMWare Player/Workstation & EXSi	
		Minimum	Recommended
Professional Development Suite	Windows 10	2 vCPU 8GB RAM 32GB free storage	4+ vCPU 16GB+ RAM 32GB free storage Enable Virtualization
	Windows 11	2 vCPU 8GB RAM 32GB free storage vTPM	4+ vCPU 16GB+ RAM 32GB free storage vTPM Enable Virtualization
	Windows Server 2025 Windows Server 2022	2 vCPU 8GB RAM 32GB free storage	4+ vCPU 16GB+ RAM 32GB free storage Enable Virtualization

Section 4: PACSystems Simulator

This section defines the technical baseline required to deploy, operate, and maintain the system within a supported and stable computing environment. It specifies the approved operating systems, minimum and recommended hardware specifications for physical hosts, constraints and configuration expectations for virtualized deployments, and additional miscellaneous prerequisites if any. These requirements ensure reasonable performance, compatibility with supported platforms, and adherence to operational reliability standards across all system roles.

4.1 Operating System Requirements

This section outlines the supported operating systems required to install and run the software reliably. Meeting these operating system requirements ensures compatibility, stability, and full access to all features. Systems that do not meet these requirements may experience reduced performance or limited functionality.

Operating System (64-bit versions)	OS Version	PACSystems Simulator
Windows 11 Pro	25H2	√
Windows 11 Enterprise	25H2	√
Windows 11 Enterprise LTSC	2024 (24H2)	√
Windows 11 IoT Enterprise	25H2	√
Windows 11 IoT Enterprise LTSC	2024 (24H2)	√
Windows 10 Pro	22H2	√
Windows 10 Enterprise	22H2	√
Windows 10 Enterprise LTSC	2021 (21H2)	√
Windows 10 IoT Enterprise	22H2	√
Windows 10 IoT Enterprise LTSC	2021 (21H2)	√
Windows Server 2025	24H2	√
Windows Server 2022	21H2	√
Windows Server 2019	1809	√
Windows Server 2016	1607	X

4.2 Physical Machine System Requirements

This section outlines the hardware specifications required to run the application on physical machines across supported Windows operating systems. The goal is to ensure consistent performance, stability, and compatibility in environments where the application is installed directly on a workstation or server. The requirements described here provide a baseline for reliable operation, while acknowledging that higher performance hardware may be beneficial for more demanding workloads or larger scale deployments.

Using the recommended hardware configuration—or a higher tier—provides significantly improved performance compared to the minimum. The PACSystems Simulator can only be used in conjunction with PAC Machine Edition and so we strongly encourage the “Recommended” specifications below for the best user experience. We currently only support running a single instance of the PACSystems Simulator at any given time on a single system. Attempting to run more than that will degrade the performance and stability of all of those instances.

The table below outlines the minimum and recommended system requirements necessary for reliable installation and operation of the PACSystems Simulator in a physical machine environment.

Product	OS	Minimum	Recommended
PACSystems Simulator	Windows 10	1 GHz CPU (64-bit Intel/AMD) 2 Cores 8GB RAM 32GB free storage	2 GHz CPU (64-bit Intel/AMD) 4 cores 16GB RAM minimum 32GB free storage
	Windows 11	1 GHz CPU (64-bit Intel/AMD) 2 Cores 8GB RAM 32GB free storage TPM 2.0	2 GHz CPU (64-bit Intel/AMD) 4 cores 16GB RAM minimum 32GB free storage TPM 2.0
	Windows Server	1.4 GHz CPU (64-bit Intel/AMD) 2 Cores 8GB RAM 32GB free storage	2 GHz CPU (64-bit Intel/AMD) 4 Cores 16GB RAM minimum 32GB storage

4.3 Virtualized Environment System Requirements

This section defines the hardware and configuration requirements for running the application within supported virtualized environments. Because performance in a virtual machine depends not only on the guest operating system but also on the capabilities and configuration of the underlying host, these guidelines outline the minimum and recommended resources needed to ensure stable and efficient operation. The information provided applies to deployments on VMware Workstation

and VMware ESXi, offering a consistent baseline that customers can adapt to their specific virtualization infrastructure.

Supported Virtualization Platforms:

- VMWare Player or Workstation
- VMWare ESXi

To run VMware on your host machine, the VM system must meet the required operating system specifications, support and enable hardware virtualization technologies such as VTx or AMDV.

Using the recommended hardware configuration—or a higher tier—provides significantly improved performance compared to the minimum. The PACSystems Simulator can only be used in conjunction with PAC Machine Edition and so we strongly encourage the “Recommended” specifications below for the best user experience. We currently only support running a single instance of the PACSystems Simulator at any given time on a single system. Attempting to run more than that will degrade the performance and stability of all of those instances.

The table below outlines the minimum and recommended system requirements necessary for reliable installation and operation of the PACSystem Simulator in a virtualized environment.

Locating the VM on a solid-state drive is strongly recommended.

Product	OS	VMWare Player/Workstation & EXSi	
		Minimum	Recommended
PACSystems Simulator	Windows 10	2 vCPU 8GB RAM 32GB free storage	4 vCPU 16GB RAM 32GB free storage Enable Virtualization
	Windows 11	2 vCPU 8GB RAM 32GB free storage vTPM	4 vCPU 16GB RAM 32GB free storage vTPM Enable Virtualization
	Windows Server 2025 Windows Server 2022	2 vCPU 8GB RAM 32GB free storage	4 vCPU 16GB RAM 32GB free storage Enable Virtualization

Section 5: PAC Change Management

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This section defines the technical baseline required to deploy, operate, and maintain the system within a supported and stable computing environment. It specifies the approved operating systems, minimum and recommended hardware specifications for physical hosts, constraints and configuration expectations for virtualized deployments, and additional miscellaneous prerequisites if any. These requirements ensure deterministic performance, compatibility with supported platforms, and adherence to operational reliability standards across all system roles.

5.1 Operating System Requirements

This section outlines the supported operating systems required to install and run the software reliably. Meeting these operating system requirements ensures compatibility, stability, and full access to all features. Systems that do not meet these requirements may experience reduced performance or limited functionality.

Operating System (64-bit versions)	OS Version	Server	Client	Scheduler Engine
Windows 11 Pro	25H2	√	√	√
Windows 11 Enterprise	25H2	√	√	√
Windows 11 Enterprise LTSC	2024 (24H2)	√	√	√
Windows 11 IoT Enterprise	25H2	√	√	√
Windows 11 IoT Enterprise LTSC	2024 (24H2)	√	√	√
Windows 10 Pro	22H2	√	√	√
Windows 10 Enterprise	22H2	√	√	√
Windows 10 Enterprise LTSC	2021 (21H2)	√	√	√
Windows 10 IoT Enterprise	22H2	√	√	√
Windows 10 IoT Enterprise LTSC	2021 (21H2)	√	√	√
Windows Server 2025	24H2	√	√	√
Windows Server 2022	21H2	√	√	√
Windows Server 2019	1809	√	√	√

Operating System (64-bit versions)	OS Version	Server	Client	Scheduler Engine
Windows Server 2016	1607	√	√	√

Additional Miscellaneous Requirements:

The PCM Scheduler Engine requires PCM Client.

The PCM Server requires Version Control System: Subversion 1.11.1 (Windows 32-bit) from CollabNetSubversion. For more details, visit Emerson’s PACSystems/Movicon Customer Center Page at https://emerson-mas.my.site.com/communities/en_US/Article/PAC-Change-Management-Landing-Page.

Notes:

- The **PCM Server** and **PCM Client** are **not supported** when using Microsoft Terminal Services or Microsoft Cluster Server.
- **PAC HMI/SCADA CIMPLICITY**. For CIMPLICITY 2022 or higher system requirements, see the CIMPLICITY online help topic Required and Supported Software and Hardware.
- In 64-bit environments, connecting to the PCM Server requires adding the server’s **IP address and hostname** to the system *hosts* file.
- **Local Change Management** is no longer supported, beginning with **PME 10.1** and is not available for installation.
- Microsoft Visual SourceSafe is not supported by PCM 10.1 or later.

The table below is an overview of the regional settings on localized operating systems that each PME product is supported on for test entered by the user. This does not apply to PCM software itself. PCM software text is always shown in English (e.g., help, error messages, menus, etc.).

		Operating system language			
PCM Product	Regional Settings ¹	English	German or French (single byte)	Simplified Chinese (double byte)	Russian (Cyrillic)
Server Client Scheduler Engine	U. S.	Yes	Yes	Yes	Yes
	Local				

Note: Regional settings include numbers, currency, time, and date settings.

5.2 Physical Machine System Requirements

This section outlines the hardware specifications required to run the application on physical machines across supported Windows operating systems. The goal is to ensure consistent performance, stability, and compatibility in environments where the application is installed directly on a workstation or server. The requirements described here provide a baseline for reliable operation, while acknowledging that higher performance hardware may be beneficial for more demanding workloads or larger scale deployments.

The table below outlines the minimum and recommended system requirements necessary for reliable installation and operation of PAC Change Management in a physical machine environment.

PCM Product	OS	Minimum (Small Projects)	Recommended (All project sizes)
Server	Windows 10	1 GHz CPU (64-bit Intel/AMD) 2 Cores 8 GB RAM 32GB free storage	2 GHz CPU (64-bit Intel/AMD) 4 cores 16 GB RAM 32GB free storage
	Windows 11	1 GHz CPU (64-bit Intel/AMD) 2 Cores 8 GB RAM 32GB free storage TPM 2.0	2 GHz CPU (64-bit Intel/AMD) 4 cores 16 GB RAM 32GB free storage TPM 2.0
	Windows Server	1.4 GHz CPU (64-bit Intel/AMD) 2 Cores 8GB RAM 32GB free storage	2 GHz CPU (64-bit Intel/AMD) 4 Cores 16GB RAM 32GB storage
Client Scheduler Engine	Windows 10	1 GHz CPU (64-bit Intel/AMD) 2 Cores 4GB RAM 32GB free storage	2 GHz CPU (64-bit Intel/AMD) 2 cores 8GB RAM 32GB free storage
	Windows 11	1 GHz CPU (64-bit Intel/AMD) 2 Cores 4GB RAM 32GB free storage TPM 2.0	2 GHz CPU (64-bit Intel/AMD) 2 cores 8GB RAM 32GB free storage TPM 2.0
	Windows Server	1.4 GHz CPU (64-bit Intel/AMD) 2 Cores 4GB RAM 32GB free storage	2 GHz CPU (64-bit Intel/AMD) 2 Cores 8GB RAM 32GB storage

5.3 Virtualized Environment System Requirements

This section defines the hardware and configuration requirements for running the application within supported virtualized environments. Because performance in a virtual machine depends not only on the guest operating system but also on the capabilities and configuration of the underlying host, these guidelines outline the minimum and recommended resources needed to ensure stable and efficient operation. The information provided applies to deployments on VMware Workstation and VMware ESXi, offering a consistent baseline that customers can adapt to their specific virtualization infrastructure.

Supported Virtualization Platforms:

- VMWare Player or Workstation
- VMWare ESXi

To run VMware on your host machine, the system must meet the required operating system specifications, support and enable hardware virtualization technologies such as VTx or AMDV.

The table below outlines the minimum and recommended system requirements necessary for reliable installation and operation of PAC Change Management in a virtualized environment.

PCM Product	OS	VMWare Player/Workstation & EXSi	
		Minimum	Recommended
Server	Windows 10	2 vCPU 8GB RAM 32 GB free storage	4 vCPU 16GB RAM 32GB free storage, plus storage space for project files (500 GB recommended) Enable Virtualization
	Windows 11	2 vCPU 8GB RAM 32GB free storage vTPM	4 vCPU 16GB RAM 32GB free storage, plus storage space for project files (500 GB recommended)vTPM Enable Virtualization
	Windows Server	2 vCPU 8GB RAM 32GB free storage	4 vCPU 16GB RAM 32GB free storage, plus storage space for project files (500 GB recommended)Enable Virtualization

PCM Product	OS	VMWare Player/Workstation & EXSi	
		Minimum	Recommended
Client Scheduler Engine	Windows 10	2 vCPU 4GB RAM 32 GB free storage	2 vCPU 8GB RAM 32GB free storage Enable Virtualization
	Windows 11	2 vCPU 4GB RAM 32GB free storage vTPM	2 vCPU 8GB RAM 32GB free storage vTPM Enable Virtualization
	Windows Server	2 vCPU 4GB RAM 32GB free storage	2 vCPU 8GB RAM 32GB free storage Enable Virtualization

5.4 Subversion Repository Documentation

PAC Change Management 10.1 and later will require a subversion repository to be installed and configured. Users can find the latest installation and configuration guides located at our support site: <http://pacsystems.co/support>

For detailed instructions, please consult the three following documents:

- “PCM Windows 2019 Installation and Configuration Guide”
- “PCM Subversion SVN Repository Backup Guide”
- “PCM Subversion SVN Repository Restore Guide”

Note: The PCM Windows 2019 Installation and Configuration Guide informs the user to download the latest SIM. Machine Edition versions 10.1 and later do not have SIMs to download.

5.5 Supported Product Modules

Below is a list of custom project support modules included on the Change Management installation ISO. A custom project module is a group of configuration files and scripts that let you manage projects of that project type on a Change Management system.

You must select the desired modules when you install the Change Management Server/Client system. You may also have to update certain files based on the configuration of your system and network.

5.5.1 Project Type Modules

- **CIMPLICITY:** Version 2022 or higher.
- **Engineering Workstation:** Version 6.0 or greater.
- **Proficy iFIX:** iFIX 5.1, 5.5, or 5.8.
- **LM9030:** LogicMaster 90-30 projects, version 9.05.
- **LM9070:** LogicMaster 90-70 projects, version 7.05.
- **Machine Edition:** Version 5.9 or greater.
- **Microsoft Excel:** Microsoft Excel™ *.XLS documents.
- **Microsoft Word:** Microsoft Word™ *.DOC documents.
- **RSLogix 5, 500, and 5000:** RSLogix 5 *.RSP files, RSLogix 500 *.RSS files (versions 7.10.00, 7.20.00, 7.30.00, and 8.10.00), or RSLogix 5000/Studio 5000 Logix Designer *.ACD files (version 15.01.00, 16.00.00, 18.00.00, 19.00.00, 21.00.00, 23.00.00, 24.00.00, 26.00.00, and 27.00.00). Change Management supports both the standard and professional versions of RSLogix software.
- **Siemens S7:** Versions 5.3x and 5.4 SP1 and 5.4 SP4.
- **Unity Pro XL:** Version 11.0 or greater.

5.5.2 As-is Project Type Modules

The following project types have not been validated for PAC Change Management since version 5.90. They are available as is:

- **ABB Robots:** ABB Robot device programs and configuration data files, S4C plus robot controllers with Robotware 4.0 Rev 70.

Note: While only models listed above are fully tested and supported, this module should work with most ABB Robot hardware.

- **AutoCAD:** AutoCAD™ *.DWG files.
- **Fanuc CNC:** Fanuc CNC device programs and data files, PowerMate and CNC 16iM models only.

Notes:

- CNC 16iM models require CNC Executive version B0F2/23 and FWLib version 1.13.0.1.
- While only models listed above are fully tested and supported, this module should work with most Fanuc CNC hardware.
- Modicon Concept: Version 2.6
- Modicon ProWORX: Modicon ProWORXPLUS and Modicon ProWORX NxT projects, version 2.20 SP6.
- Process Windows: Version 2.x.
- Siemens 840D CNC: Siemens 840D CNC ARC files from the archiving system in the CNC PCU (PC Unit).
- Siemens S5: Version 7.2.
- Wonderware: Version 9.0.

Section 6: PAC Productivity Suite 10.7.223

This section defines the technical baseline required to deploy, operate, and maintain the system within a supported and stable computing environment. It specifies the approved operating systems, minimum and recommended hardware specifications for physical hosts, constraints and configuration expectations for virtualized deployments, and additional miscellaneous prerequisites if any. These requirements ensure deterministic performance, compatibility with supported platforms, and adherence to operational reliability standards across all system roles.

The table identifies which system component versions are deployed under each installation option available with this PPS version.

Component	Version	Engineering Workstation	Operator Console	Application Server	System Server
Engineering Workstation (LD PLC)	10.7.223	√			
HMI/SCADA (CIMPLICITY)	2022 SIM 18	√	√	√	
EGD Power Tool	7.40k	√	√	√	√
EGD Management Tool	8.0	√	√	√	√

6.1 Operating System Requirements

This section outlines the supported operating systems required to install and run the software reliably. Meeting these operating system requirements ensures compatibility, stability, and full access to all features. Systems that do not meet these requirements may experience reduced performance or limited functionality.

Operating System (64-bit versions)	OS Version	Engineering Workstation	Operator Console	Application Server	System Server (EGD Configuration Server)
Windows 11 Pro	25H2	√	√	√	√
Windows 11 Enterprise	25H2	√	√	√	√
Windows 11 Enterprise LTSC	2024 (24H2)	√	√	√	√

Operating System (64-bit versions)	OS Version	Engineering Workstation	Operator Console	Application Server	System Server (EGD Configuration Server)
Windows 11 IoT Enterprise	25H2	√	√	√	√
Windows 11 IoT Enterprise LTSC	2024 (24H2)	√	√	√	√
Windows 10 Pro	22H2	√	√	√	√
Windows 10 Enterprise	22H2	√	√	√	√
Windows 10 Enterprise LTSC	2021 (21H2)	√	√	√	√
Windows 10 IoT Enterprise	22H2	√	√	√	√
Windows 10 IoT Enterprise LTSC	2021 (21H2)	√	√	√	√
Windows Server 2025	24H2	X	X	X	X
Windows Server 2022	21H2	√	√	√	√
Windows Server 2019	1809	√	√	√	√
Windows Server 2016	1607	√	√	√	√

Tools That Require Administrator Privileges in PAC Productivity Suite. Some features of PAC Productivity Suite are not supported when running without elevated access. When using the following features, you can lower your *User Account Control* settings and/or set up PAC Machine Edition Engineering to always *Run As Administrator*.

- EGD Management Tool; for configuration settings changes.
- EGD Power Tool
- PROFINET DCP Tool
- PACSAnalyzer
- IEC61850

Notes:

If the EGD OPC Server needs to run as a regular server, follow these directions:

Go to the command prompt, and change directory to c:\Program Files\PAC\EGD OPC Server

1. On the c:\Program Files\PAC\EGD OPC Server> command prompt, enter EGDDrv regserver
2. Restart your system and ensure that the EGDDrv Server is not listed as a service in Services.
 - a. Install a full version of .Net Framework v1.1, v3.5 SP1, and v4.0 and Windows installer 4.5 on Windows operating systems.
 - b. Enable .Net Framework v3.5 SP1 and Desktop Experience in the Server-Manager features list on Windows 2008.Internet Explorer

⚠ CAUTION

After installing PAC Productivity Suite and the .NET Framework, do not install an older or beta version of the .NET Framework, otherwise the newest version of .NET Framework fails.

Note: The EGD Management Edition OPC Server is automatically installed with Engineering Workstation installations, with CIMPLICITY on Application Server installations, and with iFIX on all installation types. If you install CIMPLICITY on an Operator Console, it uses its native OPC Client to communicate.

The table below is an overview of the regional settings on localized operating systems that each PAC Productivity Suite product is supported on for test entered by the user. This does not apply to PAC Productivity Suite software itself. PAC Productivity Suite software text is always shown in English (e.g., help, error messages, menus, etc.).

		Operating system language			
PAC Productivity Suite Product	Regional Settings ¹	English	German or French (single byte)	Simplified Chinese (double byte)	Russian (Cyrillic)
Engineering Workstation	U. S.	Yes	Yes	Yes	Yes
	Local				
Operator console	U. S.	Yes	Yes	Yes	Yes
	Local		Yes	Yes	Yes
Application Server	U. S.	Yes	Yes	Yes	Yes
	Local		Yes	Yes	Yes
System Server	U. S.	Yes	Yes ²	Yes ²	Yes ²
	Local				

Note: Regional settings include numbers, currency, time, and date settings.

6.2 Physical Machine System Requirements

This section outlines the hardware specifications required to run the application on physical machines across supported Windows operating systems. The goal is to ensure consistent performance, stability, and compatibility in environments where the application is installed directly on a workstation or server. The requirements described here provide a baseline for reliable operation, while acknowledging that higher performance hardware may be beneficial for more demanding workloads or larger scale deployments.

Using the recommended hardware configuration—or a higher tier—provides significantly improved performance compared to the minimum specification and is required when running multiple concurrent instances. Actual performance will vary based on project size and the number of active instances. Each instance consumes the full set of resources required for a standalone execution, and running an excessive number of instances can lead to system instability. As a general guideline, systems can support up to **three instances for small projects** and up to **two instances for large projects**. Exceeding these limits will likely result in degraded performance. A project is considered **large** if it exceeds **125,000 variables, 128 blocks, 10 targets**, or any combination of these thresholds.

When the PACSystems Simulator is used in conjunction with PPS, the recommended system settings become mandatory to ensure stable operation and accurate simulation performance.

The table below outlines the minimum and recommended system requirements necessary for reliable installation and operation of PPS in a physical machine environment.

PPS Product	OS	Minimum	Recommended
Engineering Workstation (Note: Recommended settings are required when running multiple concurrent instances).	Windows 10	2.0 GHz CPU (64-bit Intel/AMD) 2 cores 8GB RAM 64GB free storage	3.0 GHz CPU (64-bit Intel/AMD) 8 cores 32GB RAM 64GB free storage
	Windows 11	2.0 GHz CPU (64-bit Intel/AMD) 2 cores 8GB RAM 64GB free storage TPM 2.0	3.0 GHz CPU (64-bit Intel/AMD) 8 cores 32GB RAM 64GB free storage TPM 2.0
	Windows Server	2.0 GHz CPU (64-bit Intel/AMD) 2 cores 8GB RAM 64GB free storage	3.0 GHz CPU (64-bit Intel/AMD) 8 cores 32GB RAM

PPS Product	OS	Minimum	Recommended
			64GB storage
Operator Console System Server (EGD Configuration Server)	Windows 10	2.0 GHz CPU (64-bit Intel/AMD) 2 cores 8GB RAM 64GB free storage	3.0 GHz CPU (64-bit Intel/AMD) 4 cores 16GB RAM minimum 64GB free storage
	Windows 11	2.0 GHz CPU (64-bit Intel/AMD) 2 cores 8GB RAM 64GB free storage TPM 2.0	3.0 GHz CPU (64-bit Intel/AMD) 4 cores 16GB RAM 64GB free storage TPM 2.0
	Windows Server	2.0 GHz CPU (64-bit Intel/AMD) 2 cores 8GB RAM 64GB free storage	3.0 GHz CPU (64-bit Intel/AMD) 4 cores 16GB RAM 64GB storage
Application Server	Windows 10	2.0 GHz CPU (64-bit Intel/AMD) 2 cores 8GB RAM 64GB free storage	3.0 GHz CPU (64-bit Intel/AMD) 4 cores 32GB RAM 64GB free storage
	Windows 11	2.0 GHz CPU (64-bit Intel/AMD) 2 cores 8GB RAM 64GB free storage TPM 2.0	3.0 GHz CPU (64-bit Intel/AMD) 4 cores 32GB RAM 64GB free storage TPM 2.0
	Windows Server	2.0 GHz CPU (64-bit Intel/AMD) 2 cores 8GB RAM 64GB free storage	3.0 GHz CPU (64-bit Intel/AMD) 4 cores 32GB RAM 64GB free storage

Notes:

CIMPLICITY v2022 requires, at a minimum, the following hardware specifications. Those specifications drive the system requirements for the Application Server component. GE Vernova recommends testing your system to determine if your performance needs require hardware beyond the base system recommendations.

- Intel Core 2 Duo 3.0 GHz
- 4GB RAM

- 40GB free hard disk
- Monitor: Color graphics monitor, SVGA or better. 24-bit graphics card capable of 800 x 600 resolution

6.3 Virtualized Environment System Requirements

This section defines the hardware and configuration requirements for running the application within supported virtualized environments. Because performance in a virtual machine depends not only on the guest operating system but also on the capabilities and configuration of the underlying host, these guidelines outline the minimum and recommended resources needed to ensure stable and efficient operation. The information provided applies to deployments on VMware Workstation and VMware ESXi, offering a consistent baseline that customers can adapt to their specific virtualization infrastructure.

Supported Virtualization Platforms:

- VMWare Player or Workstation
- VMWare ESXi

To run VMware on your host machine, the system must meet the required operating system specifications, support and enable hardware virtualization technologies such as VTx or AMDV.

Using the recommended hardware configuration—or a higher tier—provides significantly improved performance compared to the minimum specification and is required when running multiple concurrent instances. Actual performance will vary based on project size and the number of active instances. Each instance consumes the full set of resources required for a standalone execution, and running an excessive number of instances can lead to system instability. As a general guideline, systems can support up to **three instances for small projects** and up to **two instances for large projects**. Exceeding these limits will likely result in degraded performance. A project is considered **large** if it exceeds **125,000 variables, 128 blocks, 10 targets**, or any combination of these thresholds.

When the PACSystems Simulator is used in conjunction with PPS, the recommended system settings become mandatory to ensure stable operation and accurate simulation performance.

The table below outlines the minimum and recommended system requirements necessary for reliable installation and operation of PPS in a virtualized environment.

PPS Component	OS	VMWare Player/Workstation & ESXi	
		Minimum	Recommended
Engineering Workstation (Note: Recommended settings are required when	Windows 10	2 vCPU 8GB RAM 64GB free storage	8 vCPU 32GB RAM 64GB free storage Enable Virtualization




PPS Component	OS	VMWare Player/Workstation & EXSi	
		Minimum	Recommended
running multiple concurrent instances).	Windows 11	2 vCPU 8GB RAM 64GB free storage vTPM	8 vCPU 32GB RAM 64GB free storage vTPM Enable Virtualization
	Windows Server 2025	2 vCPU 8GB RAM 64GB free storage	8 vCPU 32GB+ RAM 64GB free storage Enable Virtualization
	Windows Server 2022	2 vCPU 8GB RAM 64GB free storage	8 vCPU 32GB+ RAM 64GB free storage Enable Virtualization
Operator Console System Server (EGD Configuration Server)	Windows 10	2 vCPU 8GB RAM 32GB free storage	4 vCPU 16GB RAM 32GB free storage Enable Virtualization
	Windows 11	2 vCPU 8GB RAM 32GB free storage vTPM	4 vCPU 16GB RAM 32GB free storage vTPM Enable Virtualization
	Windows Server 2025 Windows Server 2022	2 vCPU 8GB RAM 32GB free storage	4 vCPU 16GB RAM 32GB free storage Enable Virtualization
Application Server	Windows 10	2 vCPU 8GB RAM 64GB free storage	4 vCPU 32GB RAM 64GB free storage Enable Virtualization
	Windows 11	2 vCPU 8GB RAM 64GB free storage vTPM	4 vCPU 32GB RAM 64GB free storage vTPM Enable Virtualization
	Windows Server 2025 Windows Server 2022	2 vCPU 8GB RAM 64GB free storage	4+ vCPU 32GB RAM 64GB free storage Enable Virtualization

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If you have a question, try the following steps:

Search our Knowledge Base	Open a Support Ticket	Register for a Customer Account
 pacsystems.co/knowledge	 pacsystems.co/support	 pacsystems.co/signup

Other Helpful Links

Customer Center Home Page	Commercial Website	Contact Information
 pacsystems.co/customercenter	 pacsystems.co/commercial	 pacsystems.co/contactus

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