System Requirements: SOLIDWORKS PDM Professional

Two servers (real or virtual) entirely dedicated to their PDM respective tasks are highly recommended!

PDM Database (SQL)
- Windows Server 2019*, 2022 or 2025
- 64 bits
- SQL Server 2019* CU22 or 2022
- RAM 32 GB
- Disk Space 200 GB or +
- Processor Intel or AMD, 8 cores

PDM Archive (main/replicated)
- Windows Server 2019*, 2022 or 2025
- 64 bits
- RAM 32 GB
- Disk Space 1 TB or +
- Processor Intel or AMD

Purchase of licences required

Contact your account manager for more informations

*Windows Server 2019
End of life : PDM 2025 SP5
*MS SQL Server 2019
End of life : PDM 2026 SP5
*Windows 10
End of life : PDM 2025 SP5

PDM Client CAD Editor
- Windows 10* or 11
- 64 bits
- RAM 32 GB
- Disk Space 120 GB or +
(SSD drives recommended)
- Processor Intel or AMD
Contributor/Viewer: RAM 16 GB

By booking the PDM consulting services of SolidXperts, the PDM specialist will support any software installation required for SOLIDWORKS PDM. For MS SQL Server, SolidXperts will support the entire installation or will install a new instance on an existing installation.

The recommendations issued by SOLIDWORKS are regularly updated in the following link:
https://www.solidworks.com/sw/support/SystemRequirements.html

SolidXperts Recommendations – 2025

Operating System	Archive Server (main, replicated)	Database Server (SQL)	Client CAD Editor, Contributor, Viewer
Server			
Windows Server 2019	✔ (End of life : 2025 SP5[1])	✔ (End of life : 2025 SP5[1])	NA
Windows Server 2022	✔	✔	NA
Windows Server 2025	✔ (SW2025 SP3 and +)	✔ (SW2025 SP3 and +)	NA
SQL Server Platform			
SQL 2019 CU22	NA	✔ (End of life : 2026 SP5[1])	NA
SQL 2022	NA	✔	NA
Workstation			
Windows 10 (64 bits required)	NA	NA	✔ (End of life : 2025 SP5[1])
Windows 11 (64 bits required)	NA	NA	✔
Hardware			
RAM	16 GB or more (32 GB recommended)	16 GB or more (32 GB recommended)	CAD Editor: 16 GB or more (32 GB recommended) Contributor and Viewer: 8 GB or more (16 GB recommended)
Disk Space	1 TB or more[2]	200 GB or more[2]	120 GB or more SSD drives recommended
Processor (64 bits required)	Intel or AMD	Intel or AMD Minimum 4 cores, 8 cores recommended	Intel or AMD
Microsoft Products			
Microsoft Office Document Support	NA	NA	2021 (End of life : 2026 SP5[1]) 2024 (SW2025 SP3 and +)
Other			
Antivirus	NA	NA	Supported Antivirus Products
Virtual Environments	Supported Virtual Environments		

1. Take note of the end of life of these Microsoft products before purchasing your computer equipment. "End of Life" corresponds to the last SOLIDWORKS PDM version where a Microsoft product is supported.

2. The recommended hard disk size depends only on the size of the data to store in the PDM vault: the quantity and the size of the files and the quantity of the metadata to store.

Notes

- *Latency:*

  To optimize the performances, it is **not recommended to have more than 30 milliseconds as latency** on your computer network.

- *Dedicated Servers:*

  It is recommended to install the PDM Archive Server and the PDM Database Server on **dedicated (real or virtual) machines**.

  It is **not recommended to install SQL instances linked to other applications** on the PDM Archive Server or on the PDM Database Server:
  - With **Exchange**: installation not supported.
  - On **Domain Controller**: difficult installation, additional fees will be charged in this case.
  - **With any other application**: decrease of PDM performance to expect.

- *Minimum system requirements:*

  Minimum system requirements are the minimum recommended for running the software.
  SOLIDWORKS Corporation makes no warranty regarding system performances and activities in installations that do not meet the recommended minimum requirements.

  These recommendations may vary depending on the size of the implementation.
  Thus, the current required requirements may be greater than the values mentioned above.

- *Cloud Server Installation:*

  The installation of the PDM Archive Server and the PDM Database Server in the cloud is possible under some very specific conditions. If you are interested in this type of installation, **please contact your SolidXperts account manager for more information**.

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- ***Antivirus / Firewall:***

  Antivirus software may cause communication issues with the PDM and/or SOLIDWORKS.

  To optimize the performances, it is **not recommended to install antivirus software on the PDM servers**.
  However, a good antivirus should be installed on each user workstation with exemptions for files types used in PDM vault and for folders locations to improve file-based runtime performances, such as file opening, saving and PDM vault Check In/Check Out.

  The general recommendation is to use a "normal" antivirus mode with an exception list.

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  To improve runtime performances, the following folders should be added to the antivirus exceptions list:

  - SOLIDWORKS PDM program folder (Client)
  - Vault local view folder(s) (Client)
  - SOLIDWORKS program folder (Client)
  - SOLIDWORKS Toolbox folder if not integrated with SOLIDWORKS PDM and stored in the shared network folder (Client)
  - SOLIDWORKS PDM program folder (Server)
  - Archive Server folders (Server)
  - Microsoft SQL Server folders (Server)

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  It is also required to add SOLIDWORKS PDM-related processes to an antivirus "safe" names list:

Edmserver.exe	PDM Client process.
Explorer.exe	PDM local view runs on Explorer.exe. This is not a real PDM process, but a Windows process used by PDM.
ArchiveServerService.exe	Archive Server service running on the Archive Server(s).
ConisioDbServer.exe	Database Server service typically running on the SQL Server. Can run on any system in the LAN.
ItemExplorer.exe	If Items Explorer is enabled in the vault(s), this process runs when viewing items in Items Explorer.
Viewserver.exe	Process running when accessing the vault local view.

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Here are some other recommendations to follow **IF AND ONLY IF YOU EXPERIENCE PERFORMANCE ISSUES** with your PDM:

- Create exclusions for both PDM-related processes: "ArchiveServerService.exe" and "ConisioDbServer.exe".
- Create an exclusion for the disk location of your Archives files (example: D:\ SOLIDWORKS PDM\Data*[VaultName]*).

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It is also required to **open the following communication ports** for PDM, **both inbound and outbound, both TCP and UDP**:

3030, 1433, 1434, 25734, 25735
80, 443 (if you are using PDM Web, PDM Professional only)

Below are the applications for which they are used:

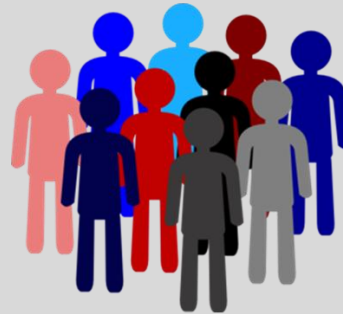| Ecoute et réception	Communication provenant de				
	Client	Serveur d'archives	Service de base de données	SQL Server	Serveur Web
Client					
Serveur d'archives	3030	3030	3030		3030
Service de base de données					
SQL Server	1433/1434	1433/1434	1433/1434		1433/1434
Serveur SNL	25734/25735				25734/25735

System Requirements: SOLIDWORKS PDM Standard

One server (real or virtual) entirely dedicated to PDM tasks is highly recommended!

PDM Database (SQL) & PDM Archive
- Windows Server 2019*, 2022 or 2025
- 64 bits
- SQL Server Express 2019* CU22 or 2022
- RAM 32 GB
- Disc Space 1 TB or +
- Processor Intel ou AMD, 8 cores

SQL Express 2022 included

SQL should not be purchased or installed beforehand

*Windows Server 2019
End of life : PDM 2025 SP5
*MS SQL Server Express 2019
End of life : PDM 2026 SP5
*Windows 10
End of life : PDM 2025 SP5

Recommended for 10 users or less!

PDM Standard is intended to small work teams

PDM Client CAD Editor
- Windows 10* or 11
- 64 bits
- RAM 32 GB
- Disk Space 120 GB or +
(SSD drives recommended)
- Processor Intel or AMD
Contributor/Viewer: RAM 16 GB

By booking the PDM consulting services of SolidXperts, the PDM specialist will support any software installation required for SOLIDWORKS PDM. For MS SQL Server Express, SolidXperts will support the entire installation or will install a new instance on an existing installation.

The recommendations issued by SOLIDWORKS are regularly updated in the following link:
https://www.solidworks.com/sw/support/SystemRequirements.html

SolidXperts Recommendations – 2025

Operating System	Archive Server	Database Server (SQL)	Client CAD Editor, Contributor, Viewer
Server			
Windows Server 2019	✔️ (End of life : 2025 SP5[1])	✔️ (End of life : 2025 SP5[1])	NA
Windows Server 2022	✔️	✔️	NA
Windows Server 2025	✔️ (SW2025 SP3 and +)	✔️ (SW2025 SP3 and +)	NA
SQL Server Platform			
SQL 2019 CU22	NA	✔️ (End of life : 2026 SP5[1])	NA
SQL 2022	NA	✔️	NA
Workstation			
Windows 10 (64 bits required)	NA	NA	✔️ (End of life : 2025 SP5[1])
Windows 11 (64 bits required)	NA	NA	✔️
Hardware			
RAM	16 GB or more (32 GB recommended)	16 GB or more (32 GB recommended)	CAD Editor: 16 GB or more (32 GB recommended) Contributor and Viewer: 8 GB or more (16 GB recommended)
Disk Space	1 TB or more[2]	200 GB or more[2]	120 GB or more SSD drives recommended
Processor (64 bits required)	Intel or AMD	Intel or AMD Minimum 4 cores, 8 cores recommended	Intel or AMD
Microsoft Products			
Microsoft Office Document Support	NA	NA	2021 (End of life : 2026 SP5[1]) 2024 (SW2025 SP3 and +)
Other			
Antivirus	NA	NA	Supported Antivirus Products
Virtual Environments	Supported Virtual Environments		

1. Take note of the end of life of these Microsoft products before purchasing your computer equipment. "End of Life" corresponds to the last SOLIDWORKS PDM version where a Microsoft product is supported.

2. The recommended hard disk size depends only on the size of the data to store in the PDM vault: the quantity and the size of the files and the quantity of the metadata to store.

Notes

- *Latency:*

  To optimize the performances, it is **not recommended to have more than 30 milliseconds as latency** on your computer network.

- *Dedicated Server:*

  It is recommended to install the PDM Archive Server and the PDM Database Server on **dedicated (real or virtual) machine**.

  It is **not recommended to install SQL instances linked to other applications** on the PDM Archive Server or on the PDM Database Server:
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- SOLIDWORKS PDM program folder (Server)
- Archive Server folders (Server)
- Microsoft SQL Server folders (Server)

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Viewserver.exe	Process running when accessing the vault local view.

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Here are some other recommendations to follow **IF AND ONLY IF YOU EXPERIENCE PERFORMANCE ISSUES** with your PDM:

- Create exclusions for both PDM-related processes: "ArchiveServerService.exe" and "ConisioDbServer.exe".
- Create an exclusion for the disk location of your Archives files (example: D:\ SOLIDWORKS PDM\Data*[VaultName]*).

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It is also required to **open the following communication ports** for PDM, **both inbound and outbound, both TCP and UDP**:

3030, 1433, 1434, 25734, 25735
80, 443 (if you are using PDM Web, PDM Professional only)

Below are the applications for which they are used:

Ecoute et réception	Communication provenant de				
	Client	Serveur d'archives	Service de base de données	SQL Server	Serveur Web
Client					
Serveur d'archives	3030	3030	3030		3030
Service de base de données					
SQL Server	1433/1434	1433/1434	1433/1434		1433/1434
Serveur SNL	25734/25735				25734/25735