



**INFORMATION ON SUPPORTED OPERATING SYSTEMS AND HARDWARE REQUIREMENTS
FOR IPM AND DOF PRODUCT SUITES**

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Question:

WHAT OPERATING SYSTEMS AND HARDWARE ARE IPM AND DOF SUITE APPLICATIONS SUPPORTED ON?

Answer:

Below are the supported operating systems and minimum hardware specifications for the **IPM** and **DOF Suite** applications.

If a particular operating system is not supported, it does not necessarily mean that it does not work on that operating system. It may only be that testing has not been completed.

IPM SUITE (INCLUDING MOVE)

Platform Support and Hardware Requirements

IPM Version 13.5 is supported on the following 64-bit operating systems:-

- Windows 10
- Windows 11
- Windows Server 2019
- Windows Server 2022

If you are using the **HARDLOCK** network licensing system to run **IPM** Version 13.5 you must be using **HARDLOCK** 13.5 or a later version.

IPM Version 13.5 is 64-bit product version. The 64-bit version is only available on x64 processor types as this is by far the most common type currently in use.

MOVE is a 64-bit product only.

IPM Version 13.5 can run on Windows Server operating systems only when the server is using the Network License Manager (**HARDLOCK**) for licensing. A standalone bitlock cannot be used for server operating systems.

In order to use Python scripts within IPM applications, the following environment must be installed (**as a minimum**) on the appropriate computers; Anaconda 2022.07 (Python 3.11) with the same bit-ness as the IPM software. **Python 3.10, 3.9, 3.8 are also supported.**

IPM HARDWARE REQUIREMENTS

IPM Version 13.5 - General

Processor	2.4 Ghz Quad Core i7 (or higher)
Total Physical Memory	4 GB (use 64-bit OS and IPM 64-bit for large models that require more than 4 GB)
Local Disks	10 GB full IPM suite
Monitor Resolution	SXGA (1280 x 1024)

If a standalone bitlock is to be used then one USB port is required for the bitlock.

IPM Version 13.5 – Additional MOVE requirements

Total Physical Memory	16 GB (or higher)
Graphics Card (GPU) Memory	4 GB (or higher) discrete GPU / graphics card Must support OpenGL 2.1, Pixel Shader 2.0
Monitor Resolution	FHD (1920 x 1080) Recommend dual 4K/QHD/UHD/FHD

MOVE Performance Notes:

- We would recommend **32-128 GB** of Total Physical Memory, and **8-32 GB** GPU Memory for models that utilise larger 2D seismic, 3D seismic cubes, DEMs, LiDAR data, or high-resolution image overlays.
- MOVE will work with an on-board integrated graphics (GPU), however this is not supported.
- The graphics card software driver should be fully up to date.
- Cloud instances (e.g. Microsoft Azure) should be configured to include a GPU provision for MOVE.

Example GPU hardware:

Ideal configuration:	
Workstation	NVIDIA RTX with 8-48 GB RAM e.g. RTX 6000, 5000, 4500, 4000, A6000, A5500, A5000, A4500, A4000
Notebook / laptop	NVIDIA RTX with 8-16 GB RAM e.g. RTX 5000, 4000, 3000, 2000, A5500, A4500, A3000, A2000, A1000
Adequate configuration:	
Workstation	NVIDIA RTX or Quadro with 4-8 GB RAM e.g. RTX T1000, Quadro P4000, P2200, P1000
Notebook / laptop	NVIDIA GeForce with 4-8 GB RAM e.g. GeForce RTX 40/30/20 Series, GeForce GTX Series

HARDLOCK – NETWORK LICENCE MANAGER

HARDLOCK Version 13.5 (latest Version) is supported on the following 64-bit operating systems:-

- Windows 10
- Windows 11
- Windows Server 2019
- Windows Server 2022

The **HARDLOCK** is only available as 32-bit software, although it is supported on the 64-bit operating systems as described above. The 32-bit version of the **HARDLOCK** is able to distribute licences to 32 and 64-bit versions of the client programs (i.e. **IPM/IFM/IVM/MOVE**) assuming such licences have been purchased.

Hardware Requirements

HARDLOCK Version 13.5

Processor	2.4 Ghz (4 logical cores)
Total Physical Memory	8 GB
Local Disks	120 GB
Monitor Resolution	SXGA (1280 x 1024)

A USB port is required for the **HARDLOCK** bitlock.

DOF SUITE

IFM Version 7.5

IFM Version 7.5 client software is supported on the following 64-bit operating systems:-

- Windows 10
- Windows 11
- Windows Server 2019
- Windows Server 2022

If you are using the **HARDLOCK** network licensing system to run **IFM** Version 7.5 you must be using **HARDLOCK** V13.5 or a later version.

IFM Version 7.5 can run on Windows Server operating systems only when the server is using the Network Licence Manager (**HARDLOCK**) for licensing. A standalone bitlock cannot be used for server operating systems.

In order to use Python scripts within IFM applications, the following environment must be installed (**as a minimum**) on the appropriate computers; Anaconda 2022.07 (Python 3.11) with the same bit-ness as the IFM software. **Python 3.10, 3.9, 3.8 are also supported.**

IFM Hardware Requirements

IFM Database Server

Processor	2.4 Ghz Quad Core i7 (or higher)
Total Physical Memory	64 GB
Local Disks (space available for database files)	1000 GB
Operating System	MS Windows Server 2019 (64-bit) Or MS Windows Server 2022 (64-bit)
Database Platform	Microsoft SQL Server 2017 (64-bit) Or Microsoft SQL Server 2019 (64-bit) Or Microsoft SQL Server 2022 (64-bit)

IFM Data Server

Processor	2.4 Ghz Quad Core i7 (or higher)
Total Physical Memory	64 GB
Local Disks	200 GB
Operating System	MS Windows Server 2019 (64-bit)



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Or MS Windows Server 2022 (64-bit)

IFM RTC Server (Automated Jobs Server)

Processor	2.4 Ghz Quad Core i7 (or higher)
Total Physical Memory	64 GB (see note below)
Local Disks	200 GB (see note below)
Operating System	MS Windows Server 2019 (64-bit) Or MS Windows Server 2022 (64-bit)

IFM Cluster Machine Server (Automated Jobs Server)

Processor	2.4 Ghz Quad Core i7 (or higher)
Total Physical Memory	64 GB (see note below)
Local Disks	200 GB (see note below)
Operating System	MS Windows Server 2019 (64-bit) Or MS Windows Server 2022 (64-bit)

IFM Client

Processor	2.4 Ghz Quad Core i5 (or higher)
Total Physical Memory	16 GB
Local Disks	120 GB
Operating System	MS Windows 10 (64-bit) Or MS Windows Server 2019 (64-bit) Or MS Windows Server 2022 (64-bit)

Notes

- **IFM** 64-bit works only with the **IPM** 64-bit version and the **IVM** 64-bit version
- Database Server: The use of dedicated database server running a single database instance is strongly recommended as well as hosting the database server on a physical machine.
- Database Server: The use of dedicated SSD disks for database data, log and backup file is strongly recommended to provide isolation and performance.
- Database Server: The use of flash based storage devices is recommended.
- The use of high end specified servers for the RTC Server (Automated Jobs server) is recommended if multiple (and /or large) fields have to be served.
- The RAM and Hard Disk requirements for both the RTC Server and Cluster Machines are dependent on the field size (please refer to the **DOF** Pre-requisites document for sizing information).
- Additional Information is provided in the **DOF** Pre-requisites document

IVM Version 10.5

IVM Version 10.5 is supported on the following 64-bit operating systems:

- Windows 10
- Windows 11
- Windows Server 2019
- Windows Server 2022

IVM Version 10.0 can run on Windows Server operating systems only when the server is using the Network Licence Manager (**HARDLOCK**).

In order to use Python scripts within IVM applications, the following environment must be installed (**as a minimum**) on the appropriate computers; Anaconda 2022.07 (Python 3.11) with the same bit-ness as the IPM software. **Python 3.10, 3.9, 3.8 are also supported.**

IVM Hardware Requirements

IVM Database Server

Processor	2.4 Ghz Quad Core i7 (or higher)
Total Physical Memory	64 GB
Local Disks (space available for database files)	1000 GB
Operating System	MS Windows Server 2019 (64-bit) Or MS Windows Server 2022 (64-bit)
Database Platform	Microsoft SQL Server 2017 (64-bit) Or Microsoft SQL Server 2019 (64-bit) Or Microsoft SQL Server 2022 (64-bit)

IVM Data Manager Server

Processor	2.4 Ghz Quad Core i7 (or higher)
Total Physical Memory	64 GB
Local Disks (space available for application files)	200 GB
Operating System	MS Windows Server 2019 (64-bit) Or MS Windows Server 2022 (64-bit)

IVM Client

Processor	2.4 Ghz Quad Core i5 (or higher)
Total Physical Memory	16 GB
Local Disks	120 GB
Operating System	MS Windows 10 (64-bit) MS Windows Server 2019 (64-bit) MS Windows Server 2022 (64-bit)

Notes

- **IVM** 64-bit works only with the **IPM** 64-bit version and the **IFM** 64-bit version
- The use of dedicated database server running a single database instance is strongly recommended as well as hosting the database server on a physical machine.
- The use of dedicated data disk for database files is recommended to provide isolation and protection upon a failure in a single area.
- Additional Information is provided in the **DOF** Pre-requisites document

INFORMATION ON IPM AND DOF SOFTWARE ARCHITECTURE

For the Petex Digital Oil Field (**DOF**), the client can purchase only the 64-bit version of **IPM** v.13.5, **IFM** v.7.5 and **IVM** v.10.5.

For **IPM** which is not part of the Petex Digital Oil Field (**DOF**), **IPM** has 64-bit products versions which the client can choose to license, and which have separate licences.

PURCHASING NEW OR ADDITIONAL LICENCES

Clients can purchase new licences or additional licences. Please contact edinburgh@petex.com for details.