Granta MI Pro System Requirements



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1 Introduction

In this document, configurations are referred to as either **certified** or **supported**.

- Certified means a full set of functional regression tests have been run on this configuration.
- **Supported** means some tests have been run on this configuration, and/or it is a configuration for which we would investigate issues and, where possible, provide fixes.

Our general support policy is to make every effort possible to get the software working in the environment in which it has been deployed, irrespective of whether it has been certified for or tested in that type of environment. However, if a reported issue appears to be due to the environment in which the software is running rather than a fault with the software itself (i.e., the fault cannot be reproduced in a certified environment), then it may not be possible to resolve the issue and any attempt to do so may require extended reciprocal support from the customer's IT organization, and fees may be payable.

2 Application server requirements

The system and hardware requirements for Granta MI Pro are listed below.

2.1 Microsoft Windows operating system

Operating system (64-bit)	Certified/Supported
Windows Server 2022 with Desktop Experience	Supported
Windows Server 2019 with Desktop Experience	Certified
Windows Server 2016	Supported ¹
Windows 11, Windows 10, version 1607 or later	Supported for testing and evaluation, not for production use

¹ Note that Granta MI Pro 2023 R1 is the last release to support Windows Server 2016 as an application server platform. (Microsoft ended Mainstream Support for Windows Server 2016 on Jan 11, 2022.)

2.2 IIS requirements

Microsoft Internet Information Services (IIS) is an optional component of the Windows operating system. It is used to host Granta MI Pro web applications, and must be installed before installing Granta MI Pro on your application server. The Installation Manager will attempt to install and configure IIS for you, if it is not already installed.

2.3 .NET Framework requirements

Granta MI Pro utilizes many .NET Framework services, and a version of .NET Framework is installed with Windows Server.

The computer on which Granta MI Pro 2023 R1 is installed (the Granta MI *application server*) requires **.NET Framework version 4.7.2**. If your system has an older version of .NET Framework, you will be prompted to upgrade prior to the Granta MI Pro installation.

2.4 ASP.NET Core requirements

The Ansys MI Material Calibration feature requires Windows ASP.NET Core Runtime **Hosting Bundle** version 6.0 or later to be installed on your MI Pro application server.

The hosting bundle includes the .NET runtime, the ASP.NET Core runtime, and, if installed on a machine with IIS, it will also add the ASP.NET Core IIS Module. The Material Calibration installer will check that the required minimum version of the .NET Core Runtime Hosting Bundle is installed before it attempts to install the Material Calibration software, and will provide a link to download

and install it if it is not present. Alternatively, you can download it from the Microsoft .NET 6.0 download site: https://dotnet.microsoft.com/en-us/download/dotnet/6.0

2.5 Hardware requirements

The minimum hardware requirements listed below are for a small-medium enterprise. Deployments in large enterprises may require more processor and memory resources; contact Ansys Granta Technical Support for advice.

Component	Requirement
Processor	Intel® Xeon® 4 core minimum
	8 core server recommended
RAM	16 GB minimum (e.g. for a test server)
	32 GB to 128 GB recommended for a production server
Disk space	100 GB minimum
	300 GB recommended

3 Database server requirements

3.1 Microsoft SQL Server

The supported Microsoft Windows/SQL Server options for Granta MI Pro 2023 R1 are as follows.

Windows Version/ SQL Server Version	SQL Server 2019	SQL Server 2017	SQL Server 2016	SQL Server 2014
Windows Server 2022	Supported	Supported		
Windows Server 2019	Certified	Certified	Certified	Supported
Windows Server 2016	Supported	Supported	Supported	Supported
Windows 11 Windows 10, v1607 or later	Supported for testing and evaluation, not for production use or later		uction use	

3.2 SQL Server Express

Microsoft SQL Server Express may be used for evaluation purposes, and for small-scale production environments.

3.3 SQL Server VMs

For information on options for private cloud IaaS deployment on Azure and AWS virtual machines, see Section 8, *Granta MI Pro on cloud platforms*, on page 12.

4 Desktop client requirements

4.1 Client admin tools

The client applications for managing and configuring the Granta MI Pro system, for example, MI Server Manager, MI Admin (Data Updater), and the MI Service Layer Configuration tool, are supported on the following 64-bit Windows platforms.

Table 1. Supported Windows platforms for Granta MI Pro admin applications

Operating system	Certified/Supported
Windows 11	Supported
Windows 10, version 1607 or later	Supported
Windows Server 2022 with Desktop Experience	Supported
Windows Server 2019 with Desktop Experience	Certified
Windows Server 2016	Supported ¹

Note that Granta MI Pro 2023 R1 is the last release to support Windows Server 2016 as a desktop client platform. (Microsoft ended Mainstream Support for Windows Server 2016 on Jan 11, 2022.)

4.2 MI Materials Gateway clients

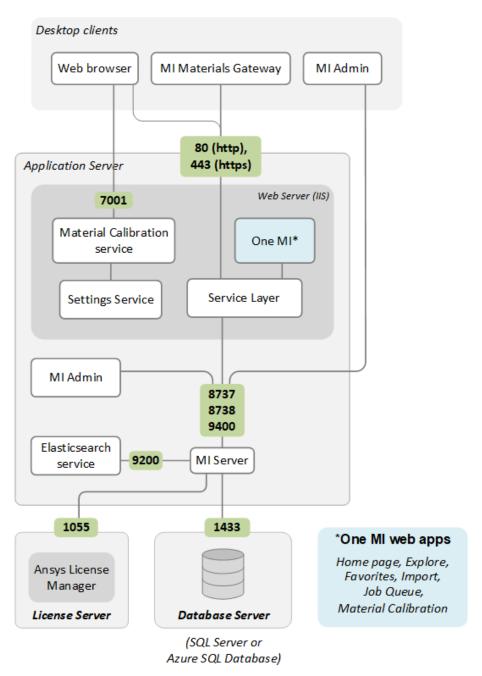
Granta MI Materials Gateway is a client application that enables materials data in Granta MI Pro to be accessed directly from within CAD and CAE applications running on a user's desktop machine. It is installed on the same machine as the CAD or CAE application, as an add-in to the software, and connects to the Granta MI Pro application server. For further details, see the *MI Materials Gateway Installation Guide for Granta MI Pro*.

On client machines, MI Materials Gateway for MI Pro is supported on the following operating systems:

Operating system	Certified/Supported	
Windows 10, 64-bit	Supported	

5 Port requirements

The following ports are required for Granta MI Pro communication in your network.



A port range must be allocated for use by the Material Calibration model fitter service, which is incorporated within the Ansys Material Calibration Service. A sufficient number of ports should be allocated to ensure multiple users can use multiple fitters simultaneously. The port range (for example, 50000-51000) is specified during installation, and stored as a configuration setting in the MI Settings Service.

6 Supported web browsers

We test Granta MI web applications against recently-released browser versions prior to releasing a given version of Granta MI. The following minimum browser versions have been tested and certified as compatible with Ansys Granta MI Pro 2023 R1.

Table 2. Compatible browser versions

Browser	Version
Microsoft Edge Chromium	99 or later
Mozilla Firefox®	99 or later
Google® Chrome	97 or later

You may still be able to run Granta MI Pro web applications without major issues on older versions of these supported browsers; however, we do not test Granta MI Pro against older versions. This means you may encounter unexpected user interface behavior and appearance, and some components may not function correctly. We will endeavor to provide technical assistance with the configuration of older browsers to mitigate compatibility issues, but some issues may only be resolved by upgrading your browser.

7 Supported virtualization environments

Ansys Granta MI Pro is supported on the following virtualization environments:

- VMware vSphere
- Citrix Hypervisor

The virtual environment must meet the operating system and hardware requirements described in the previous sections.

8 Granta MI Pro on cloud platforms

Granta MI Pro is certified or supported for private cloud IaaS deployment on the following platforms.

Our Technical Support team will provide best effort to support other private cloud deployments, but may be unable to reproduce cloud-specific issues.

8.1 Microsoft Azure

Azure SQL data platform	Status
Azure 'Infrastructure as a Service' (IaaS) with Microsoft SQL Server installed and licensed on your Azure cloud	Certified
Azure SQL Database	Supported ¹

¹ SQL authentication must be used for access management; Azure Active Directory Authentication is not supported.

8.2 Amazon Web Services (AWS)

Services	Status
Amazon Web Services (AWS) with Microsoft SQL Server installed and licensed on your AWS cloud	Supported
Amazon RDS PaaS	Not supported

9 Licensing requirements

Ansys License Manager is required to run your Ansys Granta MI software; Ansys License Manager is typically installed on dedicated license server machine. See the *Ansys, Inc. License Management Guide* for more information on installing and using Ansys License Manager.

Ansys License Manager version 2023 R1 or later is required for Granta MI Pro 2023 R1.

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