

Mo.net

Hardware & Software Requirements for Mo.net Enterprise Services

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Revision 1

Purpose

The purpose of this document is to describe the hardware and software requirements required for running Mo.net Enterprise Services – including, but not limited to the Mo.net Quotations Service, the Mo.net Execution Service, the Mo.net Identity Service, and the Mo.net Team Collaboration Service.

Background

Models developed using the Mo.net Model Development Studio can be deployed to support on-demand / synchronous calculations using the Quotations Service, and / or to enable batch-oriented asynchronous calculations using the Execution Service.

Furthermore, model development / operational features of Mo.net platform components can be controlled via permissions exposed using the Mo.net Identity Service.

Finally, models can be developed in a collaborative (team) environment using the Mo.net Team Collaboration Service.

This document describes the suggested minimum infrastructure requirements for running these Services. The precise requirements will be wholly dependent on the number of concurrent services, data volumes, model complexity / data caching, and required performance / response times.



Processor, Memory, and Operating System Requirements

Component	Requirement
Memory*	<p>Minimum: 2 GB</p> <p>Recommended: 4 GB</p> <p>The memory requirement will largely be dependent on the volume of data being cached by an individual model during operation. Data caching is not essential for model operation but will increase performance due to reduced disk / network IO. The number of concurrent Quotations and / or Execution Services will also have an impact on the memory requirements.</p>
Processor Speed	<p>Minimum: x64 Processor: 1.4 GHz</p> <p>Recommended: 2.0 GHz or faster</p> <p>The processor speed will directly impact the performance of any model.</p>
Processor Type	x64 Processor: AMD Opteron, AMD Athlon 64, Intel Xeon with Intel EM64T support, Intel Pentium IV with EM64T support
Cores	<p>Minimum: 2</p> <p>Recommended: 8</p>
Network Adapter	Gigabit Ethernet adapter (10/100/1000baseT PHY/MAC)
Hard Disk Requirements	<p>The installation of Quotations and Execution Services together requires a minimum of 70MB of available hard-disk space.</p> <p>Additional space will be required to store model binaries and associated data. Typically, no more than 100MB will be required to store all components required to run a given model within the Quotations or Execution Service, assuming input and output data is held on a separate machine.</p>

Software Requirements

Component	Requirement
Operating System	<p>Minimum</p> <p>Windows Server 2008 R2 for server-based installations Windows 7 SP1 for workstation-based installations</p> <p>Recommended</p> <p>Windows Server 2019 or later for server-based installations We don't recommend running mission-critical services on workstation-based installations</p>
.NET Framework	The Quotations Service and Execution Service all require .NET Framework Version 4.5.2 or later.
Web Server	IIS Version 7 or later

Further Information

For more information regarding the infrastructure requirements of the Mo.net Financial Modelling Platform, please contact us:

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