Mo.net
Operational Modelling Centre
Hardware and Software Requirements (On Premise)

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Purpose

The purpose of this document is to describe the hardware and software requirements for deploying and operating the Mo.net Operational Modelling Centre (OMC) in customer-managed on-premise environments.

This document applies only to on-premise deployments. Infrastructure requirements for Software Alliance hosted and cloud-based OMC deployments are described in separate cloud infrastructure documentation.

Background

The Mo.net Operational Modelling Centre (OMC) provides a scalable browser-based environment for managing, executing and monitoring operational financial modelling workloads. Built on the Mo.net Financial Modelling Platform, OMC enables secure, distributed model execution and operational management across enterprise environments.

The platform is designed to operate efficiently on standard enterprise infrastructure. Actual hardware requirements depend upon model complexity, execution workload, data volumes and the number of concurrent users.

Scope

This document applies to:

- Physical server deployments
- Customer-managed virtual machines
- Customer-managed on-premise environments

This document does not apply to:

- Software Alliance hosted environments

- Public cloud deployments
- Managed cloud services
- Platform-as-a-Service deployments

These deployment models are covered in separate cloud infrastructure documentation.

Platform Components

The following table summarises each component of the OMC platform:

Component	Purpose / Role
Mo.net Identity Service	Cross-platform user, role and permissions service optionally integrated with Active Directory. Also responsible for platform-wide user auditing. The Mo.net Identity Service is a mandatory component for using OMC.
OMC Application Service	The main OMC web application
OMC Utility Service	OMC housekeeping service
OMC System Datastore	Database used for holding all OMC related system artefacts
OMC Reporting Services Datastore	Instance of SQL Server Reporting Services used to provide system and user-developed reports
Mo.net Execution Service	Service responsible for actually performing modelling jobs, with or without Mo.net Worker Services
Mo.net Worker Services (Optional)	Allows jobs to be split across multiple machines, to reduce runtime or increase the number of jobs that can be run in parallel

Table 1 - OMC Platform Components

The interaction between each of these components is summarised in the figure below.

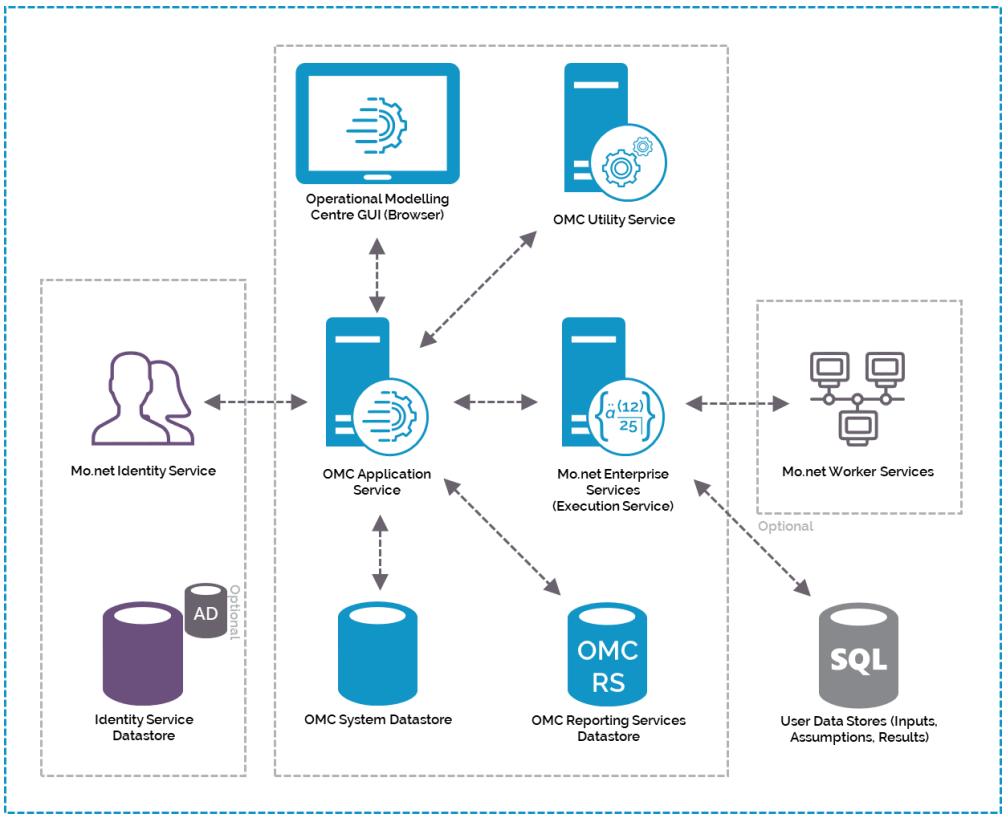

Figure 1 - OMC Component Architecture

Browser Support Levels for OMC

OMC supports most commonly used modern browsers:

Browser	Supported
Microsoft Edge (latest stable release)	✓
Google Chrome (latest stable release)	✓
Mozilla Firefox (latest stable release)	✓
Apple Safari	✓

Table 2 - OMC Browser Support

Mobile Browser Support

OMC supports the following tablet-based browsers:

- Latest Chrome on Android
- Latest Safari on iOS
- Latest Microsoft Edge mobile

Hardware and Software Requirements

The following requirements apply to all components of OMC:

Component	Description
Operating System	**Minimum**:

Component	Description
	Windows Server 2019 **Recommended**: Windows Server 2022
.NET Framework	.NET Framework 4.8
Display Resolution	**Recommended**: 1920x1080
Internet	Internet access required for licence activation and product updates

Processor, Memory and Additional Software Requirements

The following table describes the requirements of each component of the OMC platform:

Component	Element	Requirement
Mo.net Identity Service	Memory	**Minimum**: 8 GB **Recommended**: At least 16 GB and should be increased as database size increases to ensure optimal performance.
	Processor	Modern 64-bit Intel or AMD processor 4 cores recommended
	Hard Disk	Minimum of 250 MB of available hard-disk space.
OMC Application Service	Memory	**Minimum**: 8 GB **Recommended**: At least 16 GB and should be increased as database size increases to ensure optimal performance.
	Processor	Modern 64-bit server processor 8 cores recommended
	Web Server	Microsoft IIS 10 or later
	Hard Disk	Minimum of 1 GB of available hard-disk space.
OMC Utility Service	Memory	**Minimum**: 8 GB **Recommended**: At least 16 GB and should be increased as database size increases to ensure optimal performance.
	Processor	Modern 64-bit server processor 8 cores recommended
	Hard Disk	Minimum of 100 MB of available hard-disk space.
	Memory	**Minimum**: 8 GB **Recommended**: 16–32 GB

Component	Element	Requirement
OMC System Datastore (SQL Server)	Processor	Modern 64-bit server processor 8 cores recommended
	Hard Disk	Minimum of 4 GB of available hard-disk space, although this will grow over time as more operational activity is performed
	SQL Server	**Minimum** SQL Server 2019 Standard **Recommended** SQL Server 2022 Standard or Enterprise
OMC Reporting Services Datastore (SQL Server)	Memory	**Minimum**: 8 GB **Recommended**: 16–32 GB
	Processor	Modern 64-bit server processor 8 cores recommended
	Hard Disk	Minimum of 4 GB of available hard-disk space, although this will grow over time as more operational activity is performed
	SQL Server / SQL Server Reporting Services	**Minimum** SQL Server 2019 Standard **Recommended** SQL Server 2022 Standard or Enterprise
Mo.net Execution Service	Memory	**Minimum**: 8 GB **Recommended**: At least 16 GB and should be increased as database size increases to ensure optimal performance.
	Processor	Modern 64-bit server processor 8 cores recommended
	Hard Disk	Minimum of 10 GB of available hard-disk space, plus incremental growth.

Mo.net Worker Services

Mo.net Worker Services should be deployed on hardware that mirrors the main Mo.net Execution Service host. This is to ensure appropriate response levels are maintained between the master and the workers.

Virtualisation

All OMC services are supported on customer-managed virtual infrastructure, including Microsoft Hyper-V and VMware vSphere.

Software Alliance recommends deploying the OMC Application Service, Utility Service, Execution Service and SQL Server components on separate virtual machines for production environments where practical.

Further Information

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

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