

Mo.net

Platform Overview

January 2022
Revision 13

What is Mo.net?

Mo.net is an award-winning, service-oriented financial modelling platform which harnesses the latest technology to allow organisations to radically improve their actuarial and risk management modelling capabilities. It is comprehensive, powerful and cost-effective, designed to meet all current and emerging insurance modelling needs.

Mo.net offers unrivalled levels of speed, scalability, flexibility and enterprise integration due to its modern, open, loosely-coupled architecture. Mo.net allows users to develop their own bespoke models on top of a core set of extensible building blocks and components in order to reflect the features of their specific insurance products and business needs. Models can then be deployed for use by a multitude of business applications.

What Can You Do with Mo.net?

Mo.net is a robust, scalable financial modelling platform designed primarily for actuaries and risk managers to develop (using Visual Basic.NET) and run their own models to perform a variety of mission-critical modelling activities. For the first time, a single calculation kernel can support every stage of the insurance lifecycle. Typical modelling activities include:

- Product development & pricing
- New business illustrations & quotations
- Statutory valuation, embedded value & reserving calculations
- Capital management & aggregation
- Asset / liability management
- Business planning & forecasting

- Economic capital modelling
- Transfer values & annual statements
- Claims & surrender values

Platform Architecture

The foundation of Mo.net is the Microsoft .NET Framework, which offers many advantages over alternative solutions:

- Ease of understanding and promotion of code re-use
- Optimisation and portability across a wide variety of on and off-premise infrastructure options

The Mo.net kernel offers a huge library of predefined classes and functions appropriate to the needs of the most demanding model developer. Built-in capability can be further extended by the use of 3rd party libraries / components or by writing your own reusable functions. The model development process can be accelerated further by the use of standard model templates for a range of standard product types / applications.

How is Mo.net Different?

Mo.net differs from other financial modelling platforms in a number of fundamental ways; these include, but are not limited to.

- Very modest infrastructure requirements to deliver majority of use-cases
- 64-bit / multi-threaded as standard, offering enterprise performance / scalability out of the box
- Transparency / lineage of calculations means that any result can be viewed at any point
- Familiar / intuitive development language and environment
- Subscription-based licensing model – scale up / down as required (at licence renewal points)
- Connectors for range of data sources / targets
- Supports collaborative development / auditing / change management
- Modelling-as-a-Service – integrate with variety of enterprise hosts
- End-to-end performance across development, compilation, operation
- Legacy-free architecture / platform

Components of the Mo.net Platform

The Mo.net Financial Modelling Platform is currently comprised of the following components:

Mo.net Model Development Studio

Mo.net Model Development Studio provides a huge array of features and functionality to streamline the process of developing and testing new financial models.

Mo.net Model Development Studio is available in the following editions:

- **Standard Edition** – everything you need to develop, debug and run financial models in a controlled environment (using personal source code control)
- **Professional Edition** – includes all features of Standard Edition plus the ability to create models as EXEs / DLLs for use in other systems, and to distribute work using Worker Services. The Professional Edition also enables use of Identity Services as a way of controlling who can use the Mo.net platform and what functionality different users can access.
- **Enterprise Edition** – includes all the features of Professional Edition, plus the ability to use collaborative development tools such as source code control server, which enables continuous integration and testing. The Enterprise Edition also provides the functionality to publish models directly to the Quotations Service or Execution Service.
- **Runtime Edition** – includes all features of Standard Edition, but without the ability to change or extend model functionality.
- **Consultant Edition** - all the features of Standard Edition, but with no access to Worker Services.
- **Student Edition** – all the features of Standard Edition but with no access to Worker Services.

Mo.net Worker Service

Worker Services enable the distribution of large modelling workloads across multiple computers, either locally or in the cloud. Worker cluster visibility is provided by the Worker Service Manager which allows complete control of all Worker resources from a central location.

Mo.net Identity Service

Identity Services enables access to features of the Mo.net platform to be controlled and audited based on user ID and / or role. The Identity Service can be connected to Active Directory to provide complete management of the platform in line with other components of the corporate enterprise. Using the Identity Service also allows security events to be remotely captured using industry standard SIEM / operational management systems.

Mo.net Team Collaboration Service

The Mo.net Team Collaboration Service enhances the built-in personal source control functionality to provide collaborative model development features for teams. This also includes the ability to perform continuous builds and integration testing when used with the Execution Service.

Mo.net Quotations Service

The Mo.net Quotations Service allows any user-developed model to be consumed on demand / synchronously by a variety of client applications, such as web sites, mobile applications or other enterprise tools.

Mo.net Execution Service

The Mo.net Execution Service enables any model to be consumed asynchronously by any batch-oriented client application inside or outside the corporate enterprise.



Further Information

For more information regarding the Mo.net Financial Modelling Platform and to discuss your specific modelling requirements please get in touch.

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