

ReMetrica: Next generation capital modelling

Following Solvency II and equivalent regulation, insurers are demanding more value from their investment in capital models to explore wider financial strategies. To create a more sophisticated and robust platform that caters for these increased requirements, Aon Benfield has re-architected ReMetrica to prepare the tool for the next decade – ReMetrica Version 7. Discover extra functionality throughout 2016.

More efficient and scalable modelling

- Fully backwards compatible – migration tool to port models
- Updated user interface – to give it a more modern look and feel and to simplify building
- Model management – enhanced functionality for multiple users, models and analyses
- Enhanced reporting – data at your fingertips to design reports more easily in ReMetrica without having to open Excel
- Simulation speed – multi-threaded and written in .NET will drastically improve run-time
- Customisable models – more powerful python programming

We're here to empower results:

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Innovation: cutting-edge technology behind the platform

ReMetrica Version 7 is a ground-up reimplementation of the ReMetrica V6 application. Using 64 bit .NET 4.5 to bring a richer, slicker user experience, the new generation of the application maintains compatibility with the previous generation of ReMetrica components to ensure Version 6 models run in Version 7.

New Random Number Generator – Version 7 includes a new random number generator (Mersene Twister). As well improving model runtime performance, it ensures consistency of numbers regardless of the number of threads and the convergence optimisation settings used.

Enhanced Excel Integration – Version 7 includes its own excel compatible spread sheet editor, based upon **SpreadsheetGear**, so that minor changes to workbooks and viewing results can be done in a flash. The product also includes the ability to access results and edit workbooks in the full excel application too. You can also access results from R using the supplied R package.

Python Indirect Expression Language – Extending model functionality is more powerful than ever. The Version 7 indirect expression language uses Python and the entire python language is available to the modeller. Expressions are compiled into DLR (Dynamic Language Runtime) instructions making them speedy to execute too.

Multi-threaded Simulation Mode – Replacing Version 6’s DCOM distributed simulation mode, Version 7 includes a multi-threaded simulation mode. Multi-threading can automatically scale to use all of the available CPU cores on a workstation or server. On-the-fly merging of results ensures that your results are available for use as soon as the last trial completes.

Updated File Format – The RMSX (ReMetrica Study Xml) file format is completely new to Version 7. Models in RMSX format are smaller than RM2 and take significantly less time to load and save.

Seamless transition

For a seamless transition, Version 7 has a migration tool to import from models from ReMetrica 6.14. This process requires the same simple approach as if users were upgrading from 6.13 to 6.14 for example. We have achieved this by keeping the frame-working and business logic on separate levels. When your Version 6 model has been imported to Version 7, you will still be able to access the Version 6 component library. The ReMetrica team will support you through this process to help you evolve on to Version 7. Please note that VBA components, VBA macros and charts will not be converted into Version 7.

There will be no charge to upgrade to Version 7, this is available as part of your current license. You can also use Version 6 and Version 7 at the same time and run models in both versions. We will continue to support version 6 for the foreseeable future, at least three years at a minimum. We know that it takes time to upgrade models to new versions of the software. We will also support the current component library for the foreseeable future.

Timeframes for delivery

We are currently in the first phase of the ReMetrica V7 development with V7.0 due at end Q1 2016.

The development of ReMetrica V7 has been split into 2 phases:

Phase 1—ReMetrica Framework

Phase 2—ReMetrica Framework + new Component library

