

## Grid Enhanced Energy Analytics

*Increased scalability for ZaiNet Value-At-Risk and Earnings-At-Risk*

### Faster Analysis for Better Decisions

As your business evolves, you may find that the ability to make better risk decisions goes hand-in-hand with increased business flexibility. Increased flexibility is difficult to achieve while holding down the cost and complexity of your computing infrastructure. SunGard's approach to solving this problem is to deploy Monte Carlo Value-at-Risk (VaR) and Earnings-at-Risk (EaR) analytics applications in a dynamic computing infrastructure that balances application demands across computing resources at runtime. This puts the decision-making tools for business flexibility in your hands while holding down costs.

### Grid Enhancement Value

Calculating Value-at-Risk or Earnings-at-Risk helps you to understand the impact of energy market changes on your company's financial position, but it can be a challenge to complete them as transaction volumes grow or portfolio complexity increases. If daily workloads and the need for market closing prices allow for only one clean pass at the analysis, an interruption or error can leave your risk managers without the information to support the next day's decision-making. To address these time constraints and the results they may impact, SunGard provides Grid enhanced Monte Carlo VaR and EaR solutions for ZaiNet.

SunGard's Grid Enabled Monte Carlo (GEMC) VaR and EaR optimize use of existing processing power to deliver performance gains of up to 10X over standard architectures. In addition to the obvious time savings, this translates into the following benefits:

- Catch errors like a missing or incorrect price curves in time to re-run the analysis
- Ability to run more simulations for more precise valuations
- Handle increased transaction volume or complexity with existing resources

In addition, the GEMC VaR and EaR solutions support migrations to lower-cost commodity architectures including blade servers. Together these two factors offer significant TCO advantages.

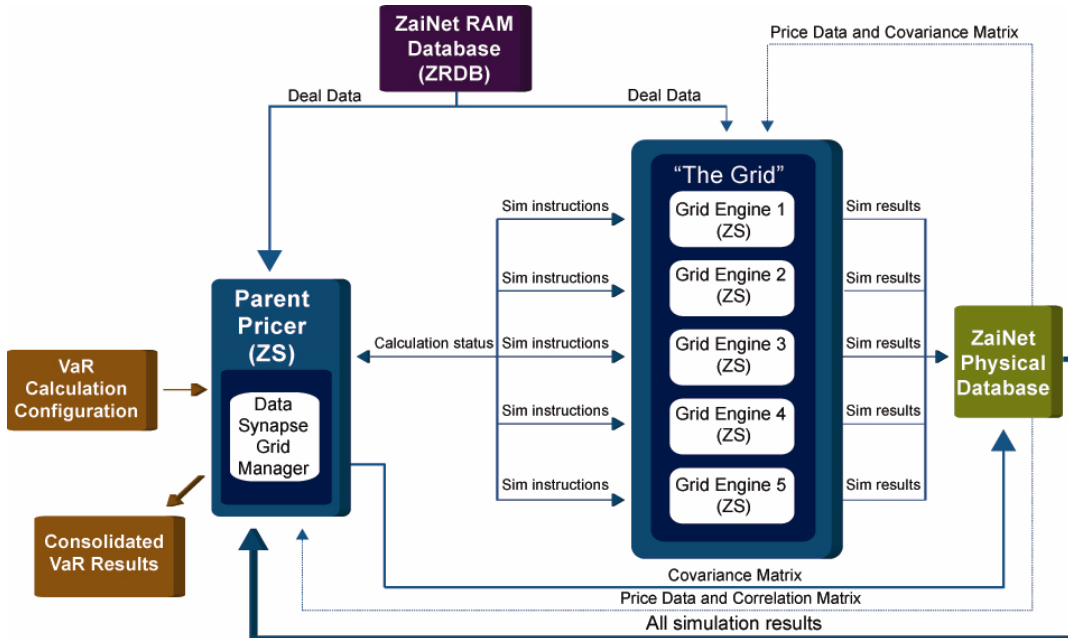
Grid enabling the Monte Carlo VaR and EaR modules of ZaiNet also provides you the ability to distribute the calculations across more resources or to use "spare" resources. This allows you to run the analyses during the day rather than being constrained to end-of-day batch processing.

### The GridServer Execution Platform

To achieve the performance needed to complete more iterations of risk analytics within an acceptable window of time, the ZaiNet Monte Carlo VaR and EaR solutions execute multiple simulations and calculations in parallel. This is enabled by GridServer software that provides a service execution platform for the applications.

The GridServer enables fully-functional "services" and the business logic of the VaR and EaR applications to be deployed to and execute on a grid. The GridServer service execution platform, transforms your "hardware platform" into a virtual grid of network, processing and data resources to optimize computing speed, efficiency, flexibility and resilience and streamline service lifecycle management. The following diagram illustrates how the VaR simulations are spread across grid

engines to speed the calculation process.



## SunGard — Solutions for Energy

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