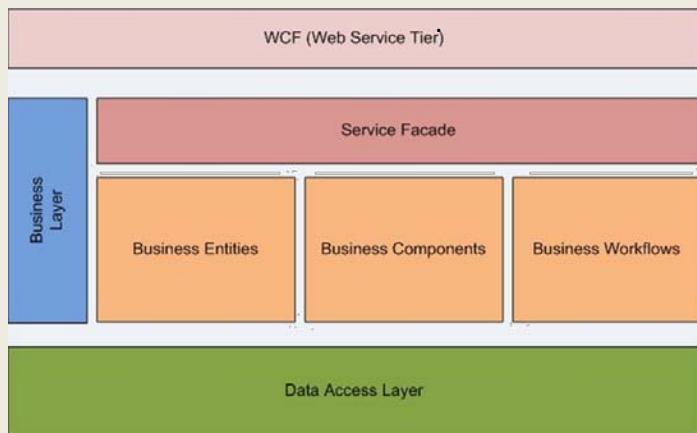


## Technical Architecture Summary

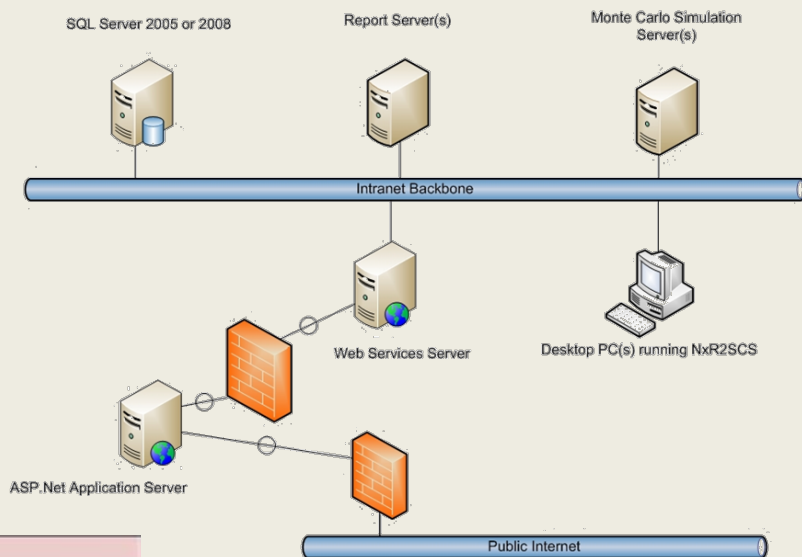
NxR<sup>2</sup> is based on a service-oriented architecture that is 100% Microsoft .NET (Version 3.5) compliant. The .NET Framework provides an abstraction layer on top of the Microsoft Windows family of operating systems that ensures maximum portability to future releases and versions. Moreover, we are able to take advantage of the wide variety of reusable and tested .NET technologies available, allowing us to concentrate on delivering outstanding business functionality to our customers.



All major components of the architecture are accessible through **configurable web services**. Interactions between web services are managed through IIS 7. The architecture allows for distributing of reports and analysis to users outside of the client network through an optional web service.

### Database

All data is stored in a single, shared database. Data persistence is provided by SQL Server, Microsoft's industry leading relational database product. Pricing is accomplished through multi-threaded core pricers that can take advantage of multi-core and multi-socket machines.



## Distributed Computing

We utilize WCF (Windows Communication Foundation) to enable secure, reliable distributed computing. Database- and computation-intensive tasks are offloaded to one of two dedicated servers, the Monte-Carlo Server for WMC analysis, or the Report Server for a variety of reports. The latter is available to users who prefer not to run reports on their desktop computer.

### Compute Server Configuration

The following applies to the Report, Monte-Carlo and Web Service servers.

- Windows Server 2008
- .NET 3.5
- IIS 7
- NumeriX .NET 8.X

### User Interface

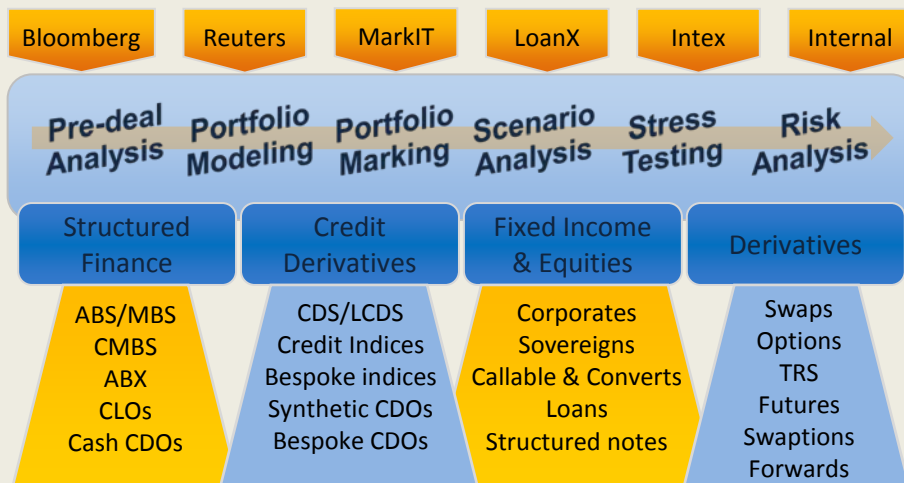
The user interface is Windows forms-based, with recently developed components, such as the Scenarios Studio—as well as all future components—built in WPF (Windows Presentation Foundation), Microsoft's next generation framework for building stunning high-fidelity user interfaces.

# NxR<sup>2</sup>

## Credit Done Right

NxR<sup>2</sup> is a real-time risk management application that helps hedge funds, banks, structurers and regulators independently price and risk profile complex credit portfolios.

NxR<sup>2</sup> combines advanced pricing models, sophisticated portfolio construction capabilities and powerful simulation and optimization capabilities into a single platform designed and engineered to help you make more informed investment decisions.



NxR<sup>2</sup> provides all the information you need to:

- Mark books in a consistent and accurate manner
- Measure and control market and credit risks
- Measure performance and attribute it to the right market or risk factor movements
- Identify suitable investment strategies and hedging vehicles

### Informed Risk Taking

NxR<sup>2</sup> promotes a culture of informed risk taking by providing factual, real-time information that helps you make more intelligent business decisions. With its sophisticated analytics seamlessly embedded in an intuitive, easy-to-use, windows application, NxR<sup>2</sup> can be customized to your specific needs, whether you are a portfolio manager, trader, head of a trading unit, senior manager, business analyst, structurer, or regulator.

### Flexibility to Suit Your Needs

NxR<sup>2</sup> is a modularized, extendible, web service-enabled risk management platform. It can either be used through its intuitive user interface, or called programmatically and integrated into your own systems. This allows you to access the platform's powerful analytics in the way that best suits your needs.

### Comprehensive Instrument and Data Coverage

NxR<sup>2</sup> covers all credit products, including:

- Credit derivatives (CDS, LCDS, Credit Indices and Tranches)
- Bespoke synthetic CDOs
- Structured finance assets (ABS, MBS, CDO, CLOs)
- Equities
- Loans
- IR, FX and Equity Derivatives

NxR<sup>2</sup> integrates a large number of complementary data sources including Bloomberg, MarkIT, LoanX, and Intex, as well as any internal data sources you rely on. Its sophisticated data management and reconciliation tools help you normalize your data and alleviate ID matching problems.