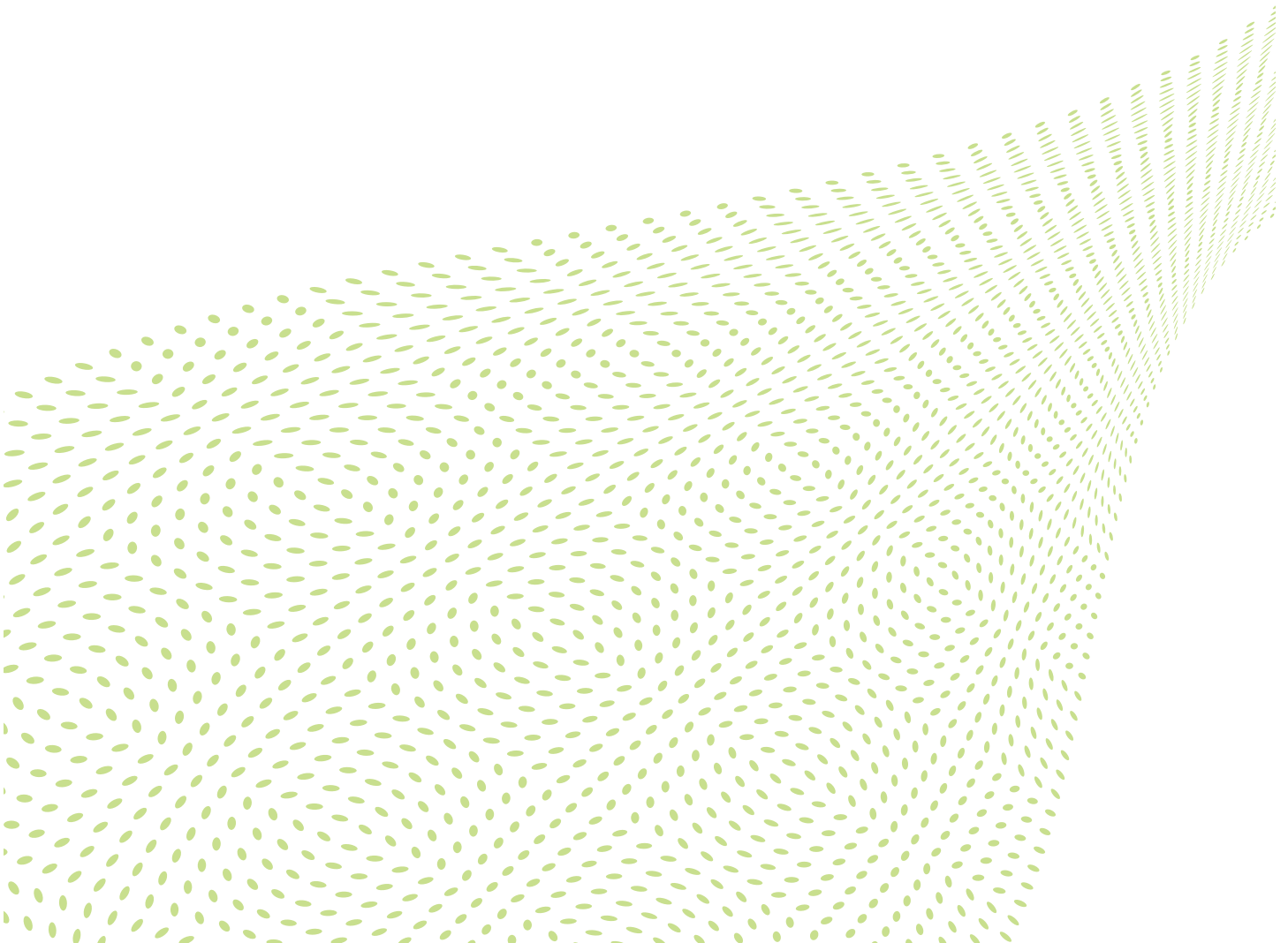


White Paper



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## Simplifying Development and Deployment of Highly-Scalable Spring Applications with Appistry EAF



## Overview

Appistry Enterprise Application Fabric (EAF) is a grid-based application platform that dramatically simplifies the development and deployment of highly scalable data- and CPU-intensive applications for extreme transaction processing (XTP), software-as-a-service (SaaS), cloud computing, and high-volume data processing.

Spring is a sophisticated framework designed to help developers build applications using plain-old java objects (POJOs), eliminating much of the design-time complexity of traditional EJB-based J2EE approaches. In addition, it offers a robust model for declarative application configuration (e.g. 'wiring') and a high degree of platform independence.

Together, Appistry EAF and Spring provide a simple yet comprehensive solution that maximizes productivity and flexibility across all phases of the develop/deploy/manage life cycle. Appistry EAF for Spring preserves the simplicity of the Spring development framework while transparently creating a highly scalable and reliable deployment environment atop commodity hardware.

## How it Works

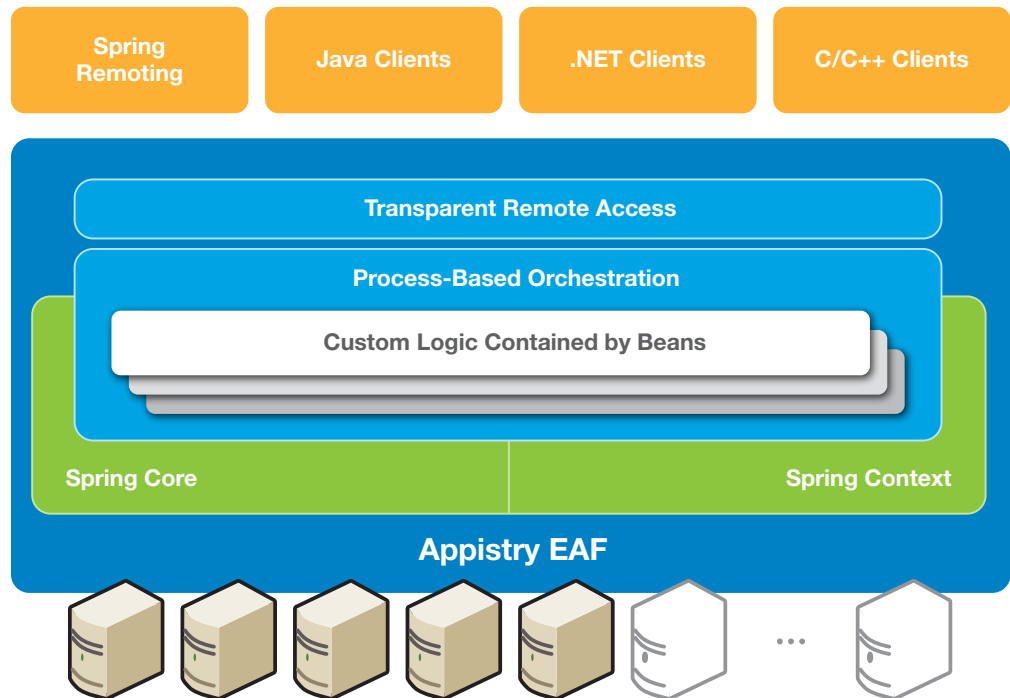
Appistry EAF is able to help scale Spring applications in two ways:

1. On the server side, Appistry EAF acts as a distributed container for Spring, allowing the deployment of Spring beans to an application fabric running on many servers without any code changes.
2. On the client side, Spring applications can act as clients to beans running in a fabric simply by 're-wiring' them, again without any changes to the original application source code.

To deploy a Spring application to Appistry EAF, a developer first creates an XML bean definition for their application context. Next, a simple Appistry component XML file is created which references the beans to be deployed to the fabric. Together, these are packaged with the Java code into a fabric application, which is deployed in a distributed manner to all the machines in the fabric. Appistry EAF then exposes the Spring beans as fabric components, applying any workload management policies specified at the component level.

On the client side, Appistry EAF utilizes dependency injection and Spring's lightweight remoting mechanism to allow the remote invocation of Spring beans deployed in the fabric with no change to the underlying POJO code. The combination of these client-side and server-side mechanisms enables the separation of the client and business-logic tiers following standard software architecture patterns, and subsequently enables the scale-out of the business-logic tier on the application fabric.

## Fabric-Based Deployment of Spring Beans



## Benefits

By placing Spring business logic in an application fabric:

- Appistry EAF makes it easy to scale your Spring applications across tens or hundreds of computers.
- Your applications can take advantage of Appistry EAF features such as automatic provisioning, software-based load balancing, workload management policies and transaction (or request) reliability, as well as interoperability with applications written in other languages.
- Your applications remain platform independent, facilitating easy application testing and ensuring vendor independence.

With Appistry EAF for Spring, you can focus on building business solutions rather than application infrastructure. As a result, your organization is empowered to deliver large-scale applications more quickly and easily. Because Appistry EAF virtualizes the application and transparently ensures high service levels, you are able to deploy your Spring-based applications more cost-effectively than ever before.

## Easy Adoption for Your Enterprise

Appistry EAF Community Edition is a free product based on Appistry EAF. With Community Edition, enterprises large and small can quickly and easily begin building highly scalable applications in Java, Spring, .NET or C/C++ for their data- and CPU-intensive applications.

Appistry EAF Community Edition may be downloaded for free at **[www.appistry.com/developers](http://www.appistry.com/developers)** and used on up to 5 servers or 10 CPU cores. Unlike trial software, the license to use EAF Community Edition does not expire and it can be used for production deployment of applications, as well as for development and testing purposes.

Getting started with Appistry EAF has never been easier. Members of Appistry's Peer2Peer Developer Community have free access to a number of resources including a developer portal, support forums, a documentation wiki, tutorials and code samples.

Visit the **[www.appistry.com/developers](http://www.appistry.com/developers)** to download the software and join the Peer2Peer Developer Community today.

## About Appistry

Appistry's flagship product, Appistry Enterprise Application Fabric, dramatically simplifies the process of developing, deploying and managing highly scalable and reliable applications. With Appistry EAF, data- and CPU-intensive software developed using technologies like Java, Spring, .NET or C/C++ can be easily scaled-out across a virtualized "grid" of inexpensive servers. As a result, Appistry customers such as FedEx, Northrop Grumman and GeoEye are able to quickly and inexpensively bring new capabilities to market with the agility, scale and reliability demanded by their businesses.

For more information, or to schedule a no-cost/no-commitment application fabric impact assessment, please call us at 888-APP-0111 (888-277-0111) or send an e-mail to [info@appistry.com](mailto:info@appistry.com).

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