INTRINSYC

ProofSpace

ProofSpace chose Intrinsyc's J-Integra Solution to seamlessly bridge the worlds of Java and COM.

Company Background

ProofSpace™, Inc. provides its customers with a solution to perfect the documentation of their electronic business records. Founded in 1999, the Chicago-based company delivers its solution through its flagship product, ProofMark™.

ProofMark uses patent-pending transient key technology to create irrefutable and durable evidence of the details of any electronic data, event or transaction, and is a Java-based server that issues secure digital timestamps against data submitted to it via its XML/HTTP interface.

ProofSpace specializes in the Healthcare and Financial sectors. With the high level of liability in these sectors, ProofMark is the practical solution given its TimeStamp feature, which allows clients to legally prove after the fact that data existed in a certain form at a certain time.

Problem

With a diversity of clients, all running on different platforms, ProofSpace was finding it increasingly difficult to integrate and access information from a variety of sources. The Company had two client application programmer interfaces (APIs) that hid the details involved in establishing the HTTP connection and formatting and parsing the XML. One of these client APIs was for Java programmers, and the other was for COM developers. In order to create a reliable, robust product, ProofSpace required a communication bridge that would allow the COM client API to utilize existing Java code in the Java client API.

Intrinsyc Solution

ProofSpace came to Intrinsyc for a solution and chose J-Integra based on its ability to use the standard Sun JDK. Incorporating J-Integra into the ProofMark product immediately provided a homogeneous communication link between the Java and COM technologies that ProofSpace needed to bridge.

"J-Integra proved to be an ideal solution for exposing our product's Java-based functionality to COM clients. With other technologies based on the Microsoft JVM, compatibility quickly becomes an issue since Microsoft only supports JDK 1.1. We were delighted by the performance of the J-Integra solution — and the overhead was negligible. J-Integra saved us weeks of development time that would have otherwise been spent porting client API code to Visual Basic or Visual C++," said Marc Perrone, Director of Product Development at ProofSpace.

QUICK TAKE

Problem
ProofSpace required a reliable, robust communication method to allow a COM client API to utilize Java-coded data in the Java client API.

Solution
Intrinsyc's J-Integra solution solved ProofSpace's challenge of reliable communication between the Java and COM realms.

Benefits
With no code modifications needed, the incorporation of J-Integra into ProofMark resulted in a functionally-enriched product and overall cost savings.

Benefits

Incorporating J-Integra into ProofMark eliminated the development of non-Java code and ensured ProofSpace could use the JDK of their choice. In addition, ProofSpace discovered that their product works well with COM client applications written in Perl, Visual Basic, and Microsoft Word/VB.

Although ProofMark is still in Beta, ProofSpace would like to incorporate J-Integra as a plug-in to the Microsoft Word application. The function would allow a user to request and obtain a ProofMark of their Word document simply by pressing a toolbar button. The ProofMark could then be "verified" by pressing another toolbar button, allowing anyone in possession of the document to prove it had not been altered since the time contained within the ProofMark.

According to Damian Mehers, Chief Architect at Intrinsyc, "ProofSpace should be commended for envisioning a product that targets such sensitive markets as the medical and financial verticals. J-Integra will ensure ProofMark is enriched with a dynamic communications bridge between Java-based code in the Java client API and any choice of COM client applications."

INTRINSYC