

## Sun and ReadIMinds

ReadiONE Right-Time Response System ensures real-time online transaction security

With increasing demand for online financial services comes a corresponding increase in exposure to online financial frauds, resulting in potential losses exceeding billions of dollars for banks and financial institutions. These organizations are now realizing the need to apply stronger user authentication, fraud detection and risk-based transaction authorization to ensure multi-layered transaction security.

ReadIMinds' ReadiONE Right-Time Response System, powered by Sun technology, provides real-

channels in real-time. The system works by detecting scenarios of interest, scoring the detected scenario, and deciding the appropriate response action based on the incident's risk or opportunity score. The system then responds at the right time, either in real-time, near real-time, or predictively, to prevent losses, maximize opportunities or meet compliance guidelines.

### Multi-layered cross-channel solution

Unlike other security products that only offer single channel and single layer security, as a cross-channel multi-

## Highlights

- Ensures the security of online financial transactions in real-time
- Prevents cross-channel online fraud attacks
- Provides multi-layered security, fraud detection and prevention
- Provides real-time cross and up-selling functionality
- Supports data-loss fraud prevention
- Helps meet compliance and regulatory guidelines in real-time
- Built on a high performing, highly scalable Sun platform
- Directly addresses the security needs of the banking and financial services industry
- Fully configurable solution used by business analysts
- Enables instant protection from new frauds
- Easily scalable to meet future growth projections
- Quickly and easily integrates with existing systems

With its ability to provide real-time fraud prevention across multiple channels within a few milliseconds, the Sun and ReadIMinds partnership is delivering industry leading results.

time monitoring of online financial transactions with zero latency response to prevent losses and maximize opportunities. With its ability to provide real-time fraud prevention across multiple channels within a few milliseconds, the Sun and ReadIMinds partnership is delivering industry leading results.

### Real-time and right-time response to online financial frauds

Using the ReadiONE software platform enterprises can monitor transactions, users, business activities, performance and risk indicators, as well as devices across multiple systems and online

layered solution, ReadiONE monitors a variety of online channels including Internet, mobile and ATM transactions. The solution provides three layers of transaction security for financial institutions, all delivered within a few milliseconds.

The first layer provides user and site authentication in the form of 2FA, MFA and site or mutual authentication to prevent identity theft and phishing frauds. The second layer involves a two-stage process using an advanced correlation fraud scenario detection engine that detects and then scores the potential fraud.

Using the ReadiONE software platform enterprises can monitor transactions, users, business activities, performance and risk indicators, as well as devices across multiple systems and online channels in real-time.

This process reduces the occurrence of false-positives by over 90 percent, a figure far higher than achieved by traditional behavior scoring-based detection engines. In the third layer, risk-based transaction authorization and verification ensures security non-repudiation, data origin and data accuracy verification, and prevents Man-In-The-Middle (MITM) and Man-In-The-Browser (MITB) attacks.

Built using a unique combination of event-driven architecture, service-oriented architecture, process-driven architecture and metadata, BPEL and web services technologies, ReadiONE is fully configurable and can be used without the need for customized coding by the financial institution. New frauds targeted at single or multiple channels can be easily modeled and hot-deployed in ReadiONE to provide instant protection for banks.

The ReadiONE Workbench is designed specifically for business analysts, who can use it to model, edit, deploy and manage scenarios of interest based on current and emerging business needs. Tasks are completed without impacting user experience, or requiring assistance from IT staff.

**Real-time cross and up-selling potential**

ReadiONE supports real-time cross and up-selling while providing transaction security and fraud prevention, thereby enabling revenue generation while mitigating losses.

**Powered by Sun technology**

To deliver the high performance and scalability needed by its customers, ReadiMinds chose to power its ReadiONE Right-Time Response System with Sun servers running the Solaris™ 10 Operating System (OS): the solution is deployed on the Sun SPARC® Enterprise

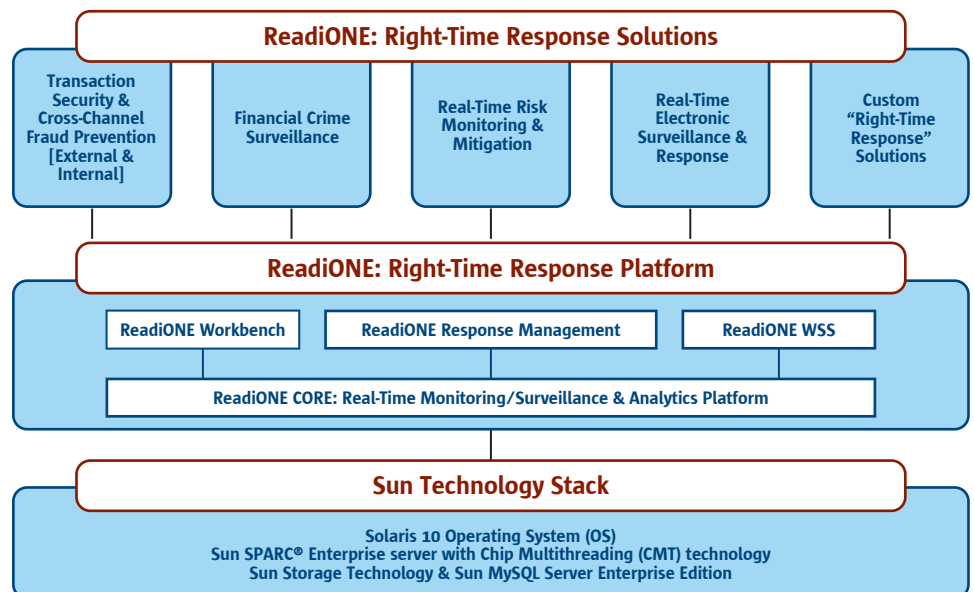


Figure 1. ReadiONE: Right-Time Response System powered by Sun technology

server with Chip Multithreading (CMT) technology that provides record breaking enterprise-class performance as well as significant infrastructure and management cost savings.

#### Delivers zero latency response

During performance and sizing benchmark tests conducted by ReadiMinds and Sun on ReadiONE Sun SPARC Enterprise T5240 servers, user load was scaled from 2,000 to 8,000 concurrent users, the range common for most banks. When scaling users and undertaking real-time online banking transaction monitoring, fraud detection and prevention, ReadiONE recorded response times between 5.5 ms to 16.5 ms for throughput of over 1100 transactions per second, while using only 29 CPU threads out of 128 available, providing zero latency response, which is practically unheard of within the banking industry.

#### Superior price performance and lower total cost of ownership

As well as delivering high performance to ReadiMinds' customers, Sun provides a price performance ratio that is 10-20 percent better than other providers. Sun SPARC Enterprise T5240 server is the first SMP server to increase performance by scaling with increased compute threads, rather than a higher frequency, which minimizes power and space consumption. Logical Domains (LDoms) and Solaris™ Containers provide built-in virtualization technology at no cost, which means ReadiMinds can run ReadiONE on up to 128 virtual machines on a single server without paying for costly

proprietary virtualization technologies. Furthermore, ReadiONE's ability to scale its user load with negligible effect on performance or user experience means a lower total cost of ownership (TCO) for ReadiMinds' customers, who can scale quickly and seamlessly as their user numbers grow, without any impact on user experience, or the need to upgrade or purchase additional solutions.

As a result of the strong performance delivered by ReadiONE Right-Time Response System to support applications requiring real-time monitoring, detection, analysis and decision, followed by suitable zero-latency response at the right-time, ReadiMinds has begun to apply the solution to applications with a similar need including Real-Time Enterprise Risk Monitoring and Mitigation. Outside of the banking and financial services industry, ReadiMinds has recently developed Real-Time Operations Centres for the healthcare, telecommunications infrastructure, retail and homeland security industries.

The best is yet to come, according to Alex Vieux, Red Herring publisher and CEO: "ReadiMinds has proven to be a company excelling in their industry and its ripples have turned into waves...We look forward to the changes it makes to its industry in the future."

#### Sun and ReadiMinds

ReadiMinds was named a Red Herring Global 100 winner in 2009 and is headquartered in Singapore with an

extensive research and development facility in Bangalore, India. The company employs approximately 85 people in its two locations with clients located throughout Asia and the Middle East. Sun provides the financial services industry with flexible, scalable, innovative, and cost-effective solution infrastructures. Incorporating the latest technologies, next generation processors, and improved reliability, manageability, and serviceability, Sun solutions facilitate the adoption of leading edge, high-bandwidth infrastructures, service-oriented architectures, and services. Together, Sun and ReadiMinds provide customers with real-time online banking transaction security delivered with zero latency response.

#### The next step

To learn more about partnering with Sun and deploying software solutions on powerful, highly scalable Sun CMT servers, contact your local Sun sales representative.