HARRIER INFORMATION SYSTEMS PVT. LTD.

THINKING LONG TERM

Harrier literally means a cross-country runner and in more ways than one symbolizes the young software solutions company that it represents. It is a combination of stamina and speed that defines success for the long distance runner. It is a combination of split second turnaround time of an agile youngster coupled with the long-term commitment to our customers, employees, stakeholders and associates that is the guiding force at Harrier. Harrier is also the name of a bird of the Falcon family, symbolizing our aggressive but systematic approach.

Harrier Information Systems is a rapidly growing and emerging software services company focused on developing software solutions for the financial services and logistics industries.

Infrastructure

Harrier is investing substantially in cutting-edge infrastructure for its state-of-the-art development centre at Nagpur, India. Apart from the very latest hardware and software, it has 512 kbps of Internet bandwidth that can be immediately upgraded to 2 mbps whenever required. It understands your concern for security and non-disclosure of your project-specific information. The development centre has latest access control mechanism in place in order to ensure restricted access to client's sensitive information, data and code.

People

It is the team at Harrier that is its biggest asset and its pride. This highly qualified and experienced team of developers is at par with the best in the global software industry. Great emphasis is laid on certification of its software development skills. The certification culture has been successfully inculcated in order to ensure that there are no gaps left in the basic knowledge of the technologies it has mastered.

Processes

In addition to the infrastructure and people, it is a firm belief at Harrier that following best practices of software development processes is the third important pillar for any successful software services company in the long run. Harrier is a process centric organization and has committed itself to achieve SEI CMM level IV in the near future. This will ensure predictability and reliability of the software it develops and will reduce the negative impact of the human factor on the quality of its software.

Values

Harrier is a value driven company and believes strongly in the human potential, with focus on continuous learning and performance to achieve highest customer satisfaction. Following are the core values driving Harrier.

- **Openness**
- **Integrity**
- **Commitment**
- **Knowledge is God**
- **Think Win-Win**
- **Attitude is Everything**

Strengths

- **Domain Expertise and Focus:**
  Strong understanding of financial services domain in general and equities market in particular
- **Technical Competence:**
  Strong understanding of technologies like J2EE & MS.Net, FIX protocol and trading system technologies
- **Training:**
  Emphasis on constant learning and being updated with latest cutting edge technologies with focus on certification of skills
- **Focus on Process:**
  Strong commitment to quality process and best practices in software engineering, based on the industry standard Unified Modelling Language (UML). Harrier is targeting SEI CMM Level 4 certification for its software processes in near future.
- **Agility of a start-up with maturity of a grown organization**
- **Culture:**
  Open, transparent, challenging and rewarding work culture capable of attracting the best talent available in the industry
- **Location:**
  Advantage of being based at a city like Nagpur that offers a good quality of life while providing all the facilities of a metro.

Application domains

- Financial services
- Global straight through processing (GSTP)
- Index computation
- Systems integration services (Integration with Reuters, Oasys Global)
- Order Management, Trading Systems
- Risk Management Systems to help banks achieve compliance with the Basel 2 requirements

Competencies

Team Harrier has several years of experience in developing software for financial services industry. From front office trading system to integration of back office system of a broker dealer with Oasys global, we have been there and done that. From market data to index computation, we understand the nitty-gritty's and offer a solution for a specific challenge. From Xetra to FIXML, the team knows what it involves. Following are the specific strengths at Harrier.

Technology expertise

Languages	C#, C++, C, Java, Pro *C, VC++
Frameworks	J2EE, MS .Net
RDBMS	Oracle, Sybase, PostgreSQL, MS SQL Server
Operating Systems	All flavors of Windows, Solaris & LINUX
Financial Protocols	Xetra VALUES API, Reuters SSL, FIX, SWIFT, Omgeo Oasys Global
Application Servers	BEA Weblogic, JBoss
Tools	Rational Rose, CA Erwin, CVS
APIs	Windows Sockets, X.25, Reuters SSL
Communication Protocols	IGMP, TCP/IP, UDP, HTTP, FTP, TELNET, X.25
MOM	JMS, MSMQ

In addition to MS .Net Harrier has developed strong competencies on open software technologies like J2EE, Jakarta Tomcat, PostgreSQL, JBoss and LINUX

FIX Protocol & FIXML, ISO15022

Financial Information Exchange (FIX) protocol has evolved as a de facto standard for communication between counterparties for exchange of post trade messages. We have developed extensive expertise on FIXML, an XML schema based version of FIX protocol. Especially, for conversion of existing FIX implementation from FIX protocol 4.2 tagvalue format, or from DTD format to XML schema based FIXML 4.4

Reuters SSL

As part of its experience with handling market data feed, Harrier has developed expertise on Reuters Source Sink library (SSL) that can be used to integrate Reuters market feed with internal system of an organization.

Omgeo Oasys Global

Harrier understands the pain involved in post trade pre settlement activities of a sell side broker dealer firm in communicating trade confirmations to the client, getting allocations and settling the trade. It also appreciates the value in automating this process by integrating the back office system of a broker dealer with that of the client using tools like Omgeo Oasys Global. It has a team that has integrated back office system of an equity brokerage outfit of an international bank with Oasys Global. It can leverage expertise of these team members to clients' advantage.

Xetra

Harrier understands the architecture of the Xetra trading platform offered by Deutsche Börse and VALUES API and can offer trading system integration services for the same.

Services

Harrier is confident of delivering solutions to your satisfaction in the following areas.

Software solutions for financial services

Harrier has a strong understanding of the challenges faced by organizations in the financial services industry. Some examples are implementation of Straight Through Processing (STP) for achieving T+1 settlement cycle and digitization of stock exchange feed. It has developed competencies on FIX protocol, FIXML, ISO15022 messaging standard to offer solutions for the above challenges.

Consulting services on niche areas

People at Harrier possess know-how on integration of internal systems used by financial services firms with external systems like Omgeo Oasys Global for automation of post trade pre settlement activities, or with Reuters feed server using Reuters Source Sink Library (Reuters SSL 4) for accepting market price feed. It offers consulting services in these areas.

Software maintenance services (product companies)

Harrier offers services for development and maintenance of software products on behalf of its clients, leveraging its strong capabilities in technologies like J2EE, MS .Net and focus on process centric approach for software development.

ODC for overseas software companies

Harrier has invested heavily in infrastructure and real estate that it can leverage to offer and maintain dedicated offshore development center for clients.

Testing services

Harrier also offers third party software testing services for clients to avail independent testing of software developed internally or by another vendor. It has a dedicated testing group to ensure independent testing of the software it develops.

Documentation services

Harrier has a dedicated separate group of expert technical writers and editors for technical documentation of software systems and generating user manuals, installation guides, write-ups, marketing literature and other related documents used with software systems.

Products for financial securities industry

Harrier is developing a real time, multi exchange, multi-currency, multi methodology, multi instrument, index computation system (STOCKPILE™) with support for applying corporate actions on the constituent stocks and adjustments. It is developing this as a productized solution for potential clients across the world.

The product can support various methodologies for index computation like market capitalization, adjusted market capitalization considering the market float of a stock. It supports market prices in multiple currencies and real time computation and dissemination of index values. Harrier has a thorough understanding of the index computation methodologies and other issues in the domain. It has the experience and expertise required for developing such a system.

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An eye on solutions

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