

GlobeinvestorGOLD

INFORMATION

Location: Toronto, ON

Web site: www.gold.globeinvestor.com

Industry: Media

CHALLENGE

Develop a subscription-based, fault-tolerant and scalable product that can stream stock quotes, news and video.

SOLUTION

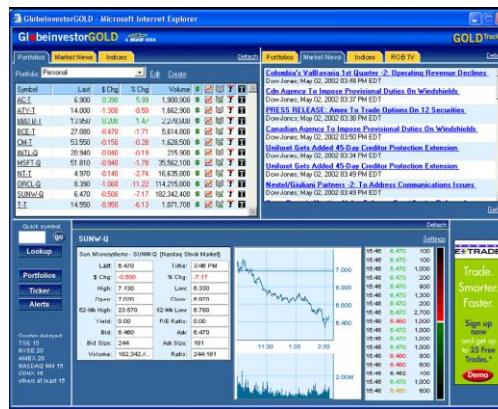
Affinity Systems designed and implemented a high-performance client-server configuration with fault tolerant components that are scalable to tens of thousands of users.

TECHNOLOGIES

- C++
- STL
- MFC
- Oracle
- PL/SQL
- JSP
- Java
- JavaScript
- Java Applets
- Windows Server

GlobeinvestorGOLD provides users with real-time feeds for all their investment needs

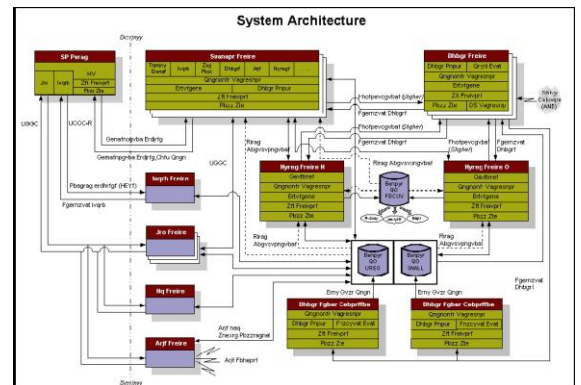
Bell Globemedia Interactive (BGMI) operates all media initiatives across the divisions of Bell Globemedia. BGMI is responsible for notable Internet properties such as globeinvestor.com, Sympatico-Lycos, workopolis.com, robtv.com, ctvnews.com, and toronto.com.



BGMI approached Affinity Systems to help develop GlobeinvestorGOLD, a subscription-based product providing financial information and services for predominantly Canadian investors. The goals of the product were to demonstrate convergence of technologies within the BCE family of companies, while offering the customer value-added content and providing streaming stock quotes, news and video.

OUR SOLUTION

Affinity Systems designed and implemented both the server and client components of the GlobeinvestorGOLD product. Our communications and server architecture provided the basis for a general client-server configuration that supports high-performance "push" architecture. All components were designed to be fault tolerant and scalable to tens of thousands of users.



We split the server workload over a primary and a set of secondary servers. One class of server supports all transactions between the client and the server including client software download, cache establishment and data publish/subscribe. Another class of server handles requests from other servers for quote information (Level I and II) and delays quotes based on customer subscription levels. An alert server watches quote and news feeds, and triggers alerts when conditions are met. A dedicated processor receives real-time feeds from the quote server and writes them to the database in real-time and delayed forms.


The client component is a Java applet, running within the secure JVM browser

CASE STUDY



BENEFITS

- Client-server configuration supports high-performance “push” architecture.
- Designed components are fault tolerant and scalable to tens of thousands of users.
- Investor information is available to subscribers in real-time 24 hours a day, seven days a week.
- Real-time feeds from the quote server are written to the database in real-time and delayed forms based on customer subscription levels.



Time	HSent	MPS	Size	Bid	Ask	Size	MPS	HSent	Time
1:00:17	3,650	REDD	1	60.890	60.900	19	INCA	4,554	1:00:17
1:00:16	5,440	ISLD	20	60.960	60.900	10	BRUT	785	1:00:17
1:00:17	4,368	INCA	10	60.960	60.910	5	APCA	1,107	1:00:09
12:59:47	288	MSD	10	60.850	60.890	5	BRID	3,595	1:00:16
1:00:08	788	APCA	1	60.950	60.920	10	PRD	42	1:00:02
1:00:13	590	SCHR	1	60.940	61.000	1	COWN	43	12:59:13
12:45:00	3	GGET	1	60.830	61.010	10	MONI	266	12:59:21
12:56:19	1	GKMC	1	60.830	61.020	10	PRUS	88	12:58:53
12:59:12	162	HRSG	1	60.830	61.000	2	SCPH	271	1:00:13
12:59:33	58	NFSC	10	60.820	61.070	11	LEHM	71	12:59:29
12:59:13	41	COWN	10	60.820	61.100	6	NFSC	49	12:59:33
12:45:25	0	WELS	1	60.900	61.100	1	REDD	3,030	1:00:17
12:59:40	24	SLIC	1	60.690	61.120	1	CASC	0	12:59:39
1:00:04	85	DSAB	1	60.720	61.150	1	JWHV	2	12:59:22
12:56:13	34	BEST	1	60.770	61.160	1	HRDG	186	12:59:12
12:59:28	0	ABNA	1	60.770	61.160	10	BEST	46	12:56:13
12:59:29	213	LEHM	1	60.770	61.160	1	DOAB	56	1:00:04
12:59:41	153	IMSH	50	60.720	61.200	4	IMPS	95	12:59:24
12:59:32	103	NDRC	10	60.760	61.200	12	SESH	10	12:59:34
12:56:05	16	MADF	1	60.760	61.200	1	NITE	128	12:56:29

sandbox and supporting the following functions: portfolio display, market news and indices, streaming video and stock quotes, Level II display, alerts, stock news, and time series charting. The software is designed for branding, and is currently being offered by a number of financial institutions under their own banner.

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