

Equinox partnered with Weume to route information intelligently and securely to, from and between various wired and wireless information devices

Project Overview

The share markets all over the world generate new prices and related information every second which interest quite a large percent of the general public. This interest can be exploited by providing the populous with the key information in the form of data that can be interpreted by any probable onlooker. To put it the simplest way, the data originates from the exchanges and terminates at the users' machine. The data volume traverses through a complicated path involving a number of data vendors, the data providers being the primary one. The data providers provide the data in a form specific to each one. Their services are purchased by the next level of data vendors and further distributed to the end user who avail the service provided by them.

Equinox

Equinox is an intermediate level data vendor whose core business is to provide real-time data to the end user. Equinox approached Weume Infosys Pvt. Ltd. for the development of software for extracting data from data providers and providing it to end-users.

Requirements in a nutshell

The requirements of Equinox included the extraction of data from various data providers and their delivery to the end users in the form they desire. Third party data providers provide the summation of the required data.

The desired data from the data feed (from data providers' remote server) is to be routed from the data providers through to the clients. The ultimate data procurer body would consist of desktop devices (PC) as well as wireless devices (pagers, cell phones etc.). The data, being extremely time sensitive, should reach its destination within its life span.

Constraints

The data feed from data providers is obtained as per the protocol put forward by the respective bodies. A series of analysis was conducted over the functioning of the various feeds, which yielded crucial details.

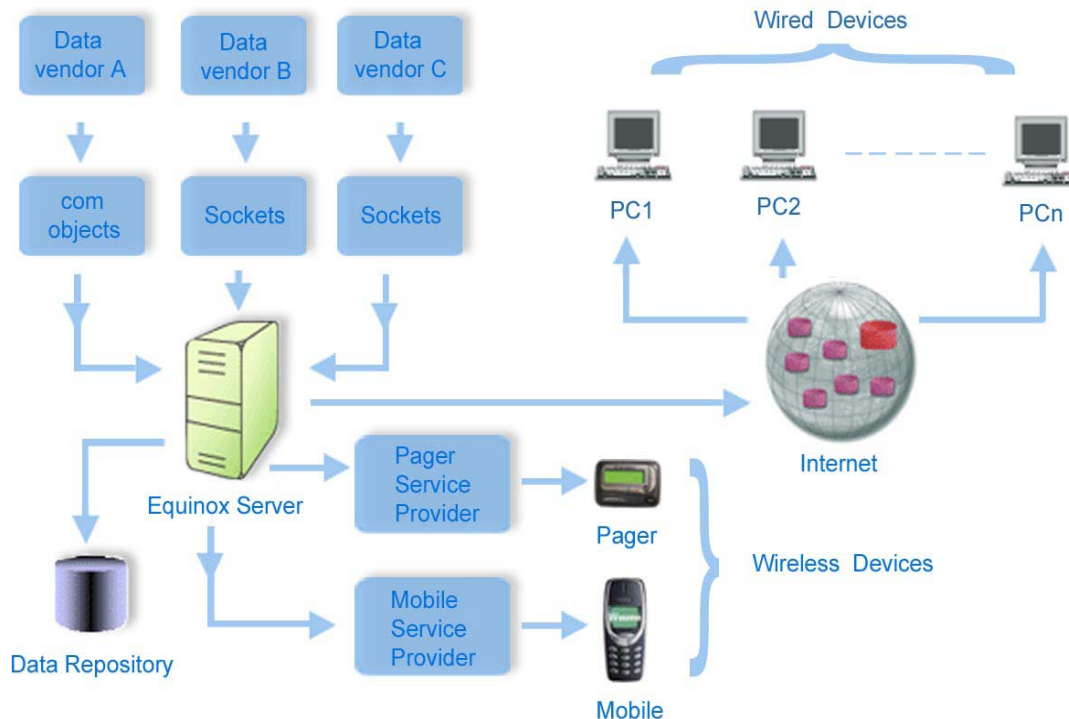
- The data secured from different data providers are in mutually incompatible form owing to the different standards being adopted.
- The data obtained are in their very raw form, which would attribute no use to the end user.
- The software was to be delivered at the earliest within a maximum time limit of 4 months. The time limit called for the development of the software using COM objects and Visual Basic, though Java or C++ proved to be the best suited.

Concluding the analysis and detailed studies, Weume Infosys put forth a proposed system, on whose acceptance the development commenced.

Challenges

- Visual Basic's limitations in thread manipulation made the multi-process handling extremely difficult and debugging almost impossible.
- The COM objects' erroneous and faltering functioning at times, beckoned the need for extra work for handling system crashes and unwarranted hang ups. This also prolonged the development time and effort, which narrowed down the cost of the software quoted to a break-even point.

The furnished software bearing a size of 1.3MB was delivered in a time span of 4 months. The end product comes as a package of a set of application catering to the different needs. The package includes server-client applications as well as standalone applications. The server client applications are designed keeping in mind the wireless devices and the standalone applications, the desktop devices. Internally, the technologies applied are the best suited to bring in unison the divergent forms of data. The procured data is reworked and reshaped to be compatible with all the possible final output devices. The feed is cached if demanded by the system criteria. Databases as well as XML are used for data caching in a pattern termed by Weume as "Merged Caching" for optimizing storage and performance. Finally the data is pushed to the end-user complying with their rules.





The system serves the data in a real-time pattern, which forms the crux of the software. The time for data serving is minimized, by means of exploiting minimal data traversal techniques internally, to attain real-time data delivery pattern. The user is provided with a friendly environment to work with, rendering him unaware of the internal complexities.

Research on the product is on for the development of further versions with added features and further reduction in serving time.

Technologies Used

- Microsoft Visual Basic 6.0
- Microsoft Access 2000
- OLE (Object Linking and Embedding)
- COM (Common Object Module)
- Microsoft ActiveX Dll's, Exes
- IIS
- Socket programming
- MSXML 4.0

About Weume

Weume Infosys Pvt Ltd, pronounced as **We-U-Me**, provides leading edge technology solutions to enable interactive mobile messaging, mobile communication and mobile Internet services. We offer wired to wireless technology platforms, applications and integration services to global enterprises and mobile network operators/service providers. Weume is focused on developing mobile data applications for operators, which are dedicated to contributing to the growth of ARPU by adding value on top of the existing network infrastructure.

Founded in 2000, Weume is a privately held company based in Chennai, India with marketing offices in Europe and USA.

For more Information on Weume, please visit www.weume.com

Weume Infosys Private Limited,

#4, Aswani Swathi Apartment,

57/1, Thirumalai Pillai Road,

Chennai-600017, Tamilnadu, India.

Phone: +914428341610, +914428341611

Fax: +914428340488

Url: <http://www.weume.com>,
<http://www.weyoume.com>