



Case Study

Aquilonis Sync Framework for Lotto Gambling

About Sync Framework

This framework helps companies reduce time to market with fast, accurate and efficient data synchronization between any two devices viz PDA, Desktop, Mobile handset and the remote database server.

Biggest challenge for the Organizations whose folks are on the move is to synchronize the data on their handhelds with the main remote server either REAL time or in BATCH mode.

Our Sync Framework ensures that, the WHOLE Organization sees the same data at ANY POINT IN TIME.

Our framework helps you build an exclusive data funnel which supports transaction of multiple records of SAME or DIFFERENT tables and field.

Transactions are synchronous with multiple mobile handheld clients ensuring:

- Data Integrity
- Utmost Speed
- Highest Accuracy
- Efficiency and
- No Data Corruption

Background

A leading gambling house of Caribbean Islands providing diverse ways to gamble to their customers across the geography. The existing products were separate 3rd party applications which were not integrated with each other and developed with obsolete technology.

Limitations

- Poor integration between multiple applications
- Developed in obsolete technology with database as MS-Access
- Technical limitations to integrate web application with Tablet PC and PDAs
- Looking for faster, accurate and efficient data synchronization
- Critical flaws in the existing software leading to huge operational losses to the company

Challenges

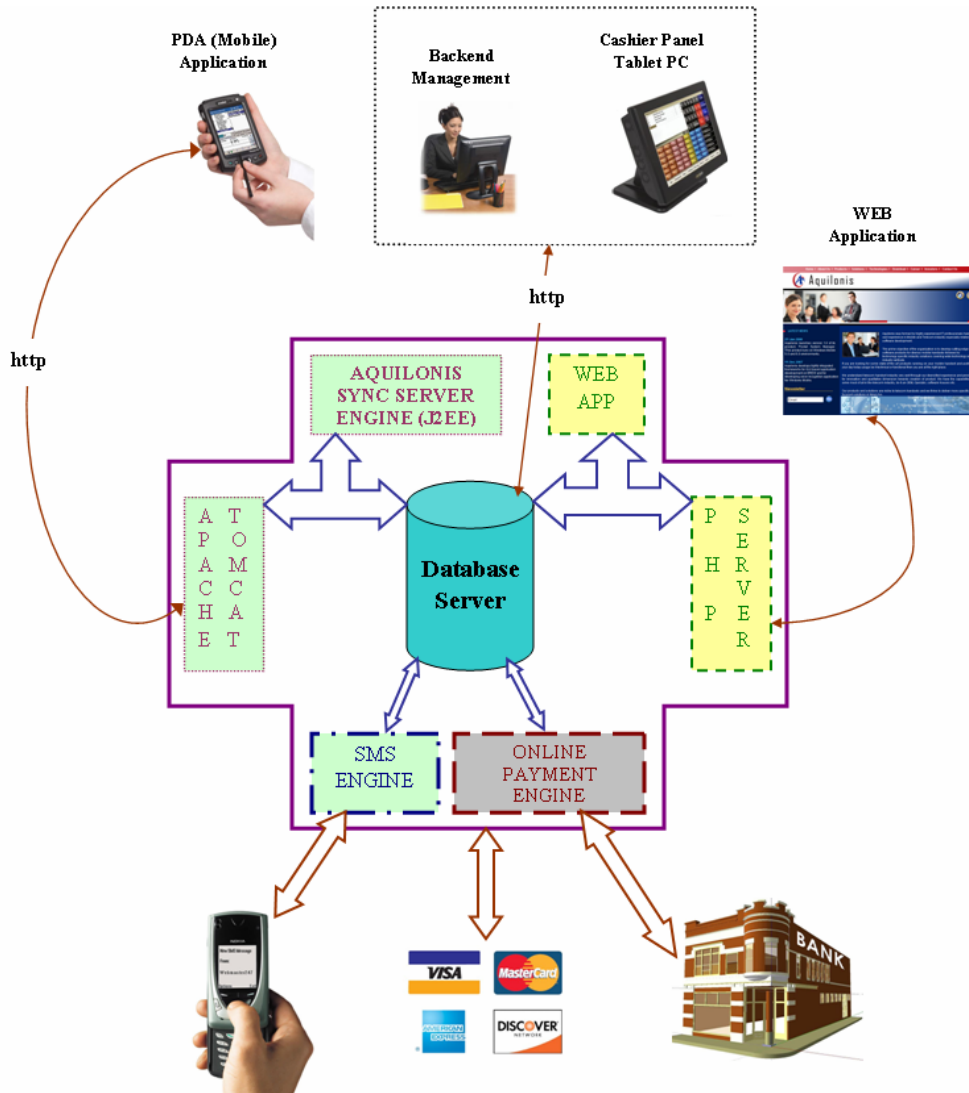
- Huge amount of data entry, approximately 10 MB per day from multiple clients and majority of them sitting remotely.
- Extremely complex functionality due to multiple clients associated with real time access of data remotely.
- Implementation of Real time validations based on specific time of the day for remote devices
- Implementation of SMS and Credit Card features without using generic SMS and Payment Gateways.
- Managing multiple gambling games at the same time with backend configuration tool.
- Customization and integration of our Synchronization framework to achieve highest Data Integrity, Utmost Accuracy, Efficiency and No Data Corruption.

Data Synchronization

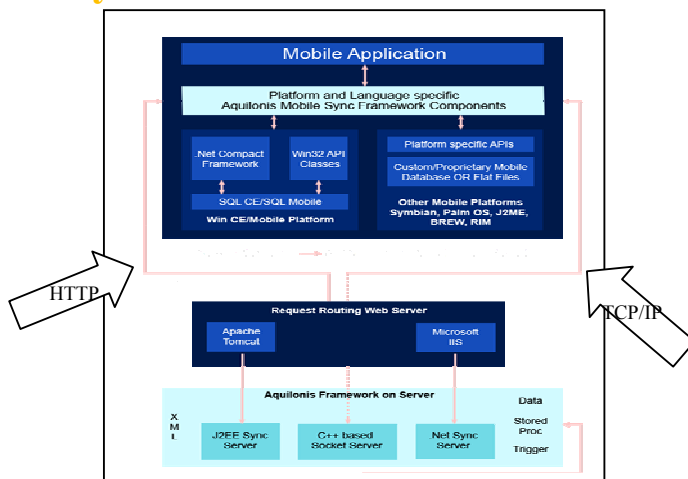
- HTTP based communication through Apache Tomcat Web Server was adopted.

Data accuracy and speed are of utmost important parameters for the end users when it comes to data synchronization between handheld and the server. **We achieved a rate of less than 1 minute for one synchronization cycle consisting of more than 1 MB of data remotely.**

Lotto Online, Teller and Remote Gambling: Block Diagram



Sync Framework Architecture



Technology

This product was developed on
 Microsoft Tablet PC
 Windows Mobile 5.0/6.0 PDA
 Visual Studio .Net 2005 IDE (C#)
 J2EE Server
 C++ based engine components

The server consists of database** as MS-SQL Server 2000.

**Product is designed to support any RDBMS

This case study is for information purpose only. All brand names and trademarks used here are the property of their respective owners and companies. For any further information please write an email to info@aquilonis.com.