



Team Name: Code Monkey

Project Name: Dominion RTMD (Real Time Marketing Data)

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Project Description:

Dominion RTMD is an application that integrates a PDA into various network applications that gather real time quote data from a database server. Each PDA will run a client application which uses HTTPS and XML to send queries to the database server. The database server will then return the queried data via HTTPS and XML for viewing on the client.

Existing within the infrastructure is a third party program called ProphetX which gathers real time stock and commodity quote information. The ProphetX information is made available to the database server via an Microsoft Excel spreadsheet. The Excel spreadsheet is linked to the ProphetX data via a DDE connection which is configured from within the ProphetX program. In addition to the DDE connection, the Excel spreadsheet is also linked to the database server via an ODBC connection.

A plethora of programs and languages have been used to integrate the application for instance:

- The proxy server runs Apache to authenticate the connection and transmit the HTTPS request to the database server.*
- The database server is running MySQL as a database management system.*
- Both the Proxy server and database server run PHP scripts to manage and direct HTTPS requests.*
- DDE is used to communicate between the ProphetX software and the Excel spreadsheet.*
- Embedded within a Visual Studio .NET C# application is a ODBC connection which is used to link the Excel spreadsheet to the database server.*
- Residing within the PDA is a Visual Studio .NET C# application which is running the Windows Mobile 5.0 operating system.*



# RTMID

Real

Time

Marketing

Data

*Dominion resources*

SQL Server

Server Application

ProphetX  
Real-Time  
Quote  
Application

Excel  
Spreadsheet  
(Data links via  
DDE & ODBC)

XML Response XML Request

Internet

HTTPS

