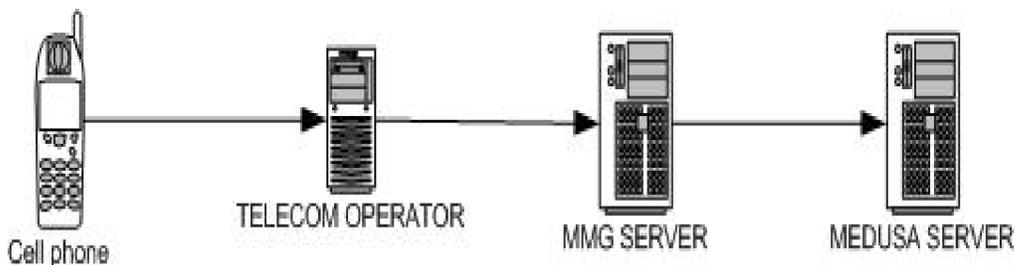# AG Technologies

Development of Medusa

The Summary

The current system has a Command Management System which allows the user to add, delete, and modify commands the client required necessary enhancements in thw application. AG Technologies developed Medusa, which was used primarily for info-on-demand SMS services, and works together with the MMG.

The Client

The Client is a pioneer in the Wireless Messaging Server and is also the leading provider of scalable wireless- enablement infrastructure software for Enterprises and Service Providers.

The Business Requirement

The current system at PSL has a Command Management System which allows the user to add, delete, and modify commands. The user logs in and with the help of menus and he gets listing of all the commands already available. By clicking on one of the fields, user is able to modify any of the fields in a form. This application is taken as the base to make the necessary enhancements. The application runs on a Web Server with a JSP/Servlet engine. The application uses MVC (Model View Controller) architecture involving struts. The interface is web based and is developed using JSP/Servlets, Struts. Refer to the figure below to get an overall description of the existing infrastructure.

Project Summary

Industry: Telecom

Client Profile: Leading provider of scalable wireless-enablement infrastructure software.

Business Requirements:

Client wanted to enhance the current Command Management System which allows the user to add, delete, and modify commands

Solution:

AG Technologies developed Medusa, which was used primarily for info-on-demand SMS services, and works together with the MMG

Solution Benefits

- User can include tariff code in command & default command.

- Tariff code is included when a message is sent by using script

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The Solution

Medusa is used primarily for info-on-demand SMS services, and works together with the MMG in the following way:

1. Mobile user sends an SMS request (SMS-MO)

2. MMG receives SMS-MO from the mobile operator

3. MMG forwards the SMS-MO to Medusa

4. Medusa checks the request and either generates a reply immediately; or

5. forwards the request to an external script

6. Medusa forwards each part of the reply as a Send Message (SMS-MT) request to the MMG

7. MMG sends each SMS-MT request to the mobile operator

The reply generated by Medusa is something that can be configured by the Medusa account user. The reply can be very long i.e. more than one SMS. Different mobile operators have difference tariffing requirements, assuming that you are connected to their SMSC or SMS-gateway. Usually, mobile operators will require you to specify a 'Tariff Code' when you send them an SMS-MT request, to indicate how much you want to charge the mobile user for that particular SMS (it will appear on the user's mobile phone bill).

Below is the flow of messages for Medusa Software from the Mobile User.

```
┌──────────────┐      ┌──────────────┐      ┌──────────────┐      ┌──────────────┐
│ MOBILE USER  │ ───▶ │   TELECOM    │ ───▶ │ MMG SERVER   │ ───▶ │   MEDUSA     │
│              │      │  OPERATOR    │      │              │      │              │
└──────────────┘      └──────────────┘      └──────────────┘      └──────────────┘
```

A user logs in to the Medusa site, he has access to the Command Management section wherein he is allowed to add, modify and delete Commands. The scope of this project is to include another field called 'tariff code' and 'tariff option' to one or all of the messages displayed in the form.

The application has the following steps.

1. Include the above mentioned widgets with appropriate validations

2. Post the values inputted and selected to the database.

3. Execute the URL mentioned in the message by passing the tariff code entered in addition to the mobile number.

4. Forward the final message to the MMG server

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The Solution Benefit

- User can include tariff code in command & default command.
- Tariff code is included when a message is sent by using script