



PyxisSMSGateway

Pyxis Technology Solutions Limited
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www.pyxistechsol.com



Wireless Technologies **@ PYXIS**

Short Message Service (SMS) is an effective and proven messaging mechanism for wireless communication.

Pyxis SMS Gateway is a fully functional two-way messaging system for access to online information using wireless devices that support SMS via GSM digital cellular telephone networks. Users interact with online applications by sending and receiving SMS messages.

The Pyxis SMS Gateway is developed using the latest JAVA classes, which makes it Platform independent and maintenance free. It is designed to enable out-of-the-box deployment of SMS messaging channel to existing IT and Non-IT infrastructure for cellular command, control and communication.

Additionally, this service also allows customers to return messages to the Gateway Customer via the SMSC and SMS Gateway by extending the support to the SMPP Protocol. Essentially, making the customer a virtual network component.



Product Features

1. Cross Platform compatibility and easy Installation.

As Java extends its magic to Wireless Devices the component adopts Platform Independence. The product has been effectively tested on Windows, Sun Solaris, Unix and Linux environments. The component comes as a package that is very simple to install and administer.

2. Send and Receive both 7-bit and 8-bit text data.

The component has the capability to talk to different types of SMS centers in the GSM network. It supports both 7-bit and 8-bit text data.

3. Support PDU format.

The component has the capability to understand 16-bit binary and PDU (Protocol Data Unit) format making it more efficient and quick.

4. Support for Ringtones, Picture Messaging, Operator Logos.

The support of PDU format enables the component to send Ringing Tones, Picture Messaging, Operator Logos as simple SMS messages to the devices that support them.

5. Support for 2-way messaging based on Message Keyword.

It is very easy to create Mobile Interactive Services based on incoming message keyword with the component. The component extends very effective methods in which these services can be deployed. The component can also retrieve information from web pages and send it as SMS messages.

6. Http Administration.

The Package has built in Server and Clients, the number of clients active at a given moment depends on the number of jobs running in the server, the Package offers very simple and effective methods of administration including strong security features.

8. Message Logging Facility.

The component offers Logging facility of all the messages as well as errors in different log files for reference and maintenance.



Gateway Architecture

The gateway will divide the processing load on several hosts.

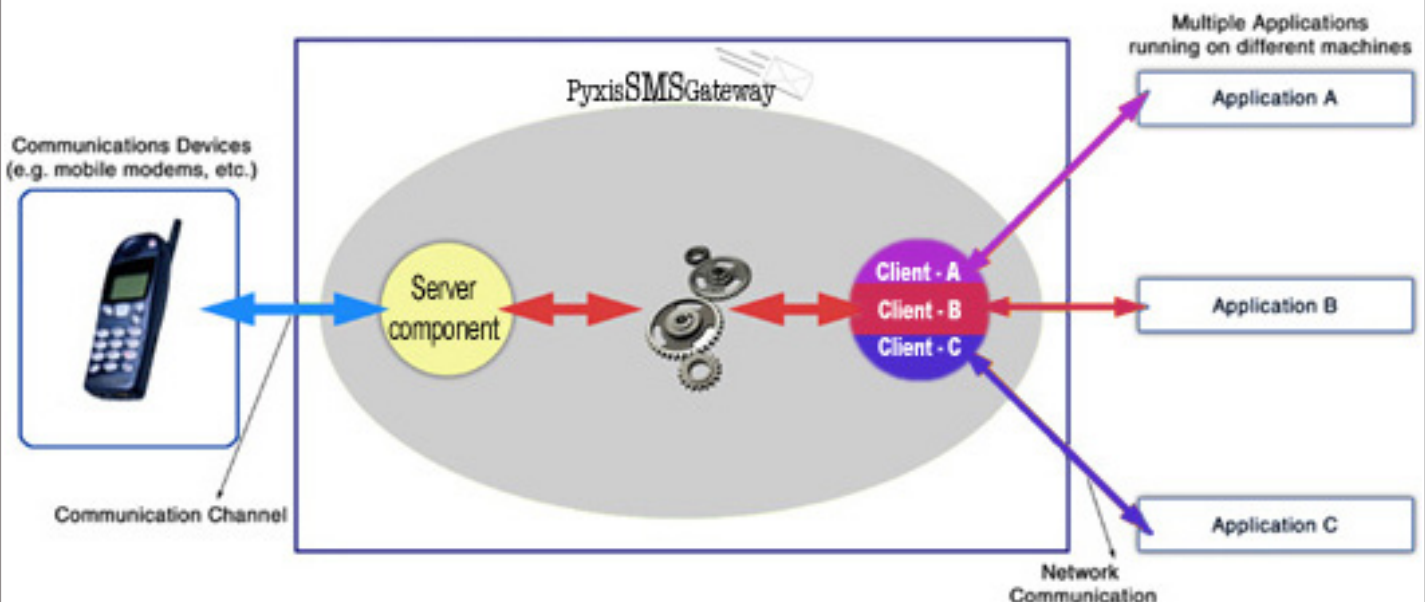
Gateway Server Component

This host connects to the SMS centers and GSM Modems/phones, and provides a unified interface to them for the other components.

Gateway Client Component

These hosts run the SMS gateway. They can't connect directly to the SMS centers. There can, in this design, only be one Server component, but any number of client components. The Server Component receives SMS messages from SMS centers, inspects them to see whether they are plain SMS messages, and then routes them to the respective clients.

It keeps track of the clients that are currently running, and routes all messages from a particular terminal to the same client. The bearer box also sends the SMS messages .





Applications

Current and Potential Applications of the SMS Gateway include but are not limited to:

- 1.Sales and customer support enquiries.
- 2.Fleet control for logistic agencies.
- 3.Manage teams for Corporate users.
- 4.Telemetric and control applications.
- 5.Corporate information access.
- 6.Remote Diagnostic.
- 7.Stock and E-mail alert services.
- 8.Schedule and appointment reminder services.
- 9.Headline and News services.
- 10.Weather and traffic condition.
- 11.Commercial promotion services.
- 12.Railway and Airline alert and enquiry services.

The Pyxis SMS Gateway is the most advanced, reliable and easy to use SMS (Short Messaging Service) solution available.

It is perfectly suited to both large and small corporate information systems.



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