

## Service application for sending / receiving short messages from personal computer connected to GSM device

Student: Vladislav Iliev, fn M-21557  
Scientific Supervisor: Boyan Bontchev  
Date: 17.10.2007

Keywords: GSM, SMS, RPC, Service, AT commands, modem, mobile phone, short message, programmatic sending, programmatic receiving

Software service application (smssvc.exe) is created as part of the present graduation work. It communicates with GSM modem via standard AT commands. At the other side it provides remote procedure call (RPC) interface. It provides procedures both for sending and receiving short messages. Thus the service represents a layer, exporting functionality to client applications and hiding details of the direct communication with modem. The graduation work is intended to be used majorly by developers of client applications.

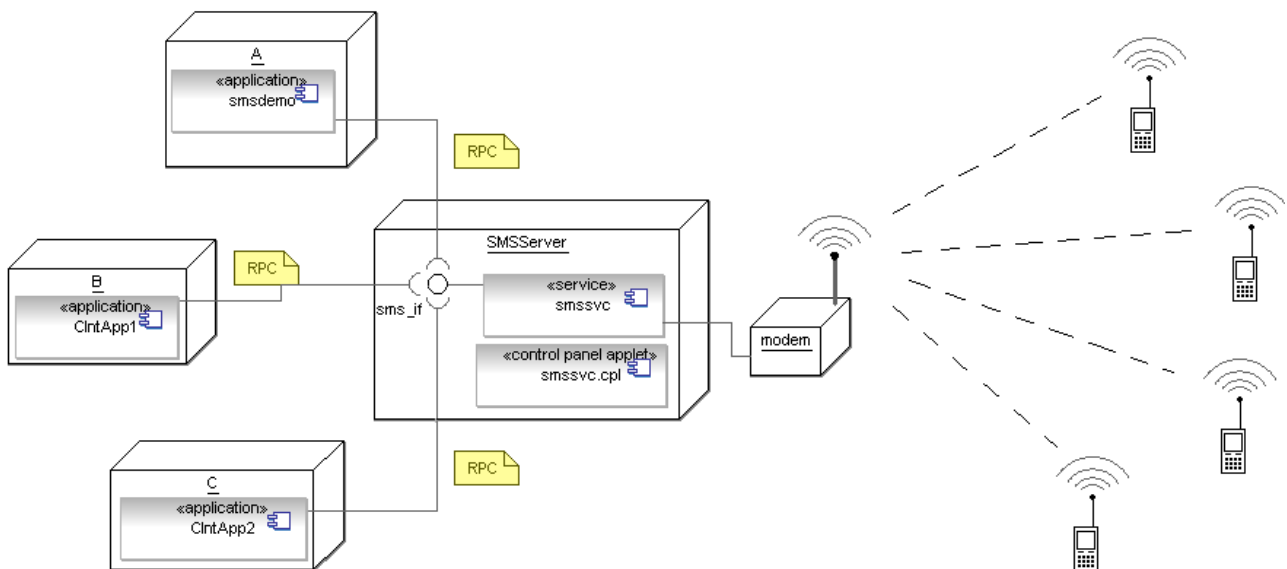
The demonstration application smsdemo can serve as a working example of a client.

The control panel applet smssvc.cpl can be used for setting service parameters.

A depolyment diagram is given below.

As separate parts from the present graduation work these are built:

- smssvc service (at the diagram – hosted by SMSServer), includes communication with modem and provides RPC interface
- smssvc.cpl control panel applet (at the diagram – hosted by SMSServer) for service parameters setting
- smsdemo demonstration client application (at the diagram – hosted by A)



A useful client application utilizing the service can be among others:

- remote monitoring and control, telemetrics
- security;
- modern “short messages voting”