Application Remote Control Using Bluetooth
(ARC)

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Abstract—This paper describes an ingenious way of using Bluetooth-Enabled Mobile Phones to control the PC applications with the help of a Software Application, which is based on Client Server architecture. The application "Application Remote Control using Bluetooth" or (ARC) along with the Mobile Phone posses the ability to control various Software Applications such as Windows Media Player and Microsoft PowerPoint Slideshows. It can also control electrical devices such as LEDs, fans using parallel (LPT) port of the PC, and PC monitor.

Keywords- Bluetooth; remote control; home networking; PAN; home appliances; wireless networks; J2ME; Java; handheld devices; Nokia 6600

I. INTRODUCTION

Wireless technologies are bringing future to present. Bluetooth is a one such wireless technology which is reshaping the way we live and work. It is an implementation of a protocol defined by the IEEE 802.15 standard. The protocol operates in the unlicensed industrial, scientific and medical (ISM) band at 2.4 to 2.485 GHz, using a spread spectrum, frequency hopping, full-duplex signal at a nominal rate of 1600 hops/sec. The 2.4 GHz ISM band is available and unlicensed in most countries [1].

About 13 percent of Mobile Phones shipped in the United States in 2004 had Bluetooth, according to IDC research. The number will grow to about 53 percent globally and 65 percent in the United States alone by 2008 [2].

The current work envisages the utilization of these Mobile Phones as remote controls to Personal Computers.

II. PRIMARY OBJECTIVE

The primary objective of the application ARC is to manage the computer applications executing in the Personal Computer or Laptop using a Mobile Phone. This Mobile Phone should be Bluetooth enabled and the Personal Computer or Laptop* should have the Bluetooth Dongle or any other Bluetooth hardware installed.

Once the basic hardware setup is done a client side application is deployed over the Mobile Phone and server side application is deployed over Personal Computer.

The Client application searches for the Personal Computer and after the Connection establishment and Authorization, application on Mobile Phone starts controlling the applications on the Personal Computer.

III. PROBLEM AND SOLUTION

While developing the solution for the application we divided the problem at hand into two parts:
1. Connection between Personal Computer and Mobile Phone.
2. Operations in the Personal Computer once a connection is established.

A. Problem one: Connection between Personal Computer and Mobile Phone

This problem can be solved in two ways

1) COM based solution: The COM-based solution is based on virtual COM ports created by both communicating devices. From the programmer's point of view, using a virtual COM port is similar to using a normal COM port [3].

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