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Survey on Silent Software Installation and LAN control using Android App

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Abstract:

This paper demonstrates the silent software installation and LAN control from our wireless handheld device i.e. mobile Phone. The software Installation can be performed without interaction of user and does not display any message or GUI during its progress of installation is called as Silent Unattended Installation.Silent unattended installation plays aimportant role when installing software over networks andtime is of immense importance because it does not require user interaction/interventionduring the process and usually skips the non important steps which are usually part ofinstaller wizards.In concern the computers are grouped together to form a network to manageand control activities of network while in office is an easy task,but while you are outstation/away from office to monitor andcontrolling of network instead of depending on third party information you can always have your cell phone serve thepurpose login anytime to application and see who is busy with what in the office. This paper is to provide the maximumdetails about the network to the administrator on their mobile phone, when administrator is away from office/goes out station.

Keywords: - ***Autonomous installation, Silent unattended installation, Android, Wireless Media, Remote Monitoring & Control, Android based Mobile phone***
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I. INTRODUCTION

Now a day use of mobile phone is increased.By using mobile phone we can control any activity.The aim of our project is tocontrol and monitor the network from our wirelesshandheld device i.e.mobile from anywhereirrespective of distance.Using the mobile phone the administrator monitor and control the activities of the clients in a LAN;such as using mobile phone android app a small text file residing any of the client or server machine can be opened.It is a cost effective solution that will provide control monitoring of LAN network remotely and enable networksecurity against intrusion in theabsence of administrator in office.Silent software installation can be used to deploy requested software's by the clients on their PC from the server without even interrupting the client after processing their request. An administrator can even thousands of clients can

handle at one time, and do so from a remote location.Administrator sends the requested software's by the clients on their machine by forcing the installation to take place during image copy without requiring the client to click on the next and finish buttons or selecting the necessary

check boxes in the dialogues. It basically outlines the steps necessary to install and configure any software.

By using remote LAN Controlling we can handle Remote processes and remote operation of client machines.

II. RELATED WORK

We have studied following papers.Those paper various concept and techniques are provided related to software installation and LAN controlling.

A. *Remote Engineering and Virtual Instrumentation (REV), 2012 9th International Conference on: Leveraging iLab to serve client-less online laboratories for electronics*

This paper describes the study of creating clientless online interfaces for laboratories served through the iLab publishing system. Given the increased usage of the iLab Shared Architecture, for example the launch of the new iLab Europe website (http://ilab-europe.net/) it seems like a good opportunity to study the potential of the iLab software. At present, iLab interfaces are being built

using various third party plug-ins, however, because it is really a web application these

shortcomings can be eliminated by using standard front-end programming techniques. By client-less interfaces we mean any web interface that is served on the web which does not require any installation for the end-user other than a modern web browser.

B. Electronics and Applications (ICIEA), 2012 7th IEEE Conference on : A novel platform for internet-based mobile robot systems

In this paper, we introduce a software and hardware structure for on-line mobile robotic systems. The hardware mainly consists of a Multi-Sensor Smart Robot connected to the Internet through 3G mobile network. The system employs a client-server software architecture in which the exchanged data between the client and the server is transmitted through different transport protocols. Autonomous mechanisms such as obstacle avoidance and safe point achievement are implemented to ensure the robot safety.

C. Computer Science and Service System (CSSS), 2011 International Conference on: A TCP/IP-based remote control system for embedded devices

With the advance of technology, embedded devices have been widely used in our lives, such as mp3, repeater, mobile phone, PDA, smart television, smart refrigerator, set-top box and robot. At the same time, people hope embedded devices can be more manageable and maintainable. This paper designs a TCP/IP-Based remote control system for embedded devices to meet people's needs. The remote control system adopts client/server mode. The server is based on S3C6410 hardware platform and embedded Linux software platform. The client is developed by Java, which can be run anywhere.

## III. METHODOLOGY

C. Problem statement

It's not so hard to do if one needs to install the software on 5 or less computers so, one should have enough patience to perform the same actions on each computer. And if one needs to install 30 or 40 programs on 10, 20, 50 or more computers, it is

very time consuming. And it is very hectic to controlling remote activity of clients. For this

purpose we develop silent software installation and controlling clients remotely.

E.System Architecture

The main purpose of this project is to handle remote machine process and control remote machine through single PC. Also aim of this project is to install required software to client machine remotely without disturbing client.In the above system architecture number of client in same LAN network connected to the centralize server that is main server of our system. And also storage server connected to the main server. The basic purpose of use storage server is to store required software zip files on that server. LAN is a common network which is used to connect all machines in a same network for communication purpose.
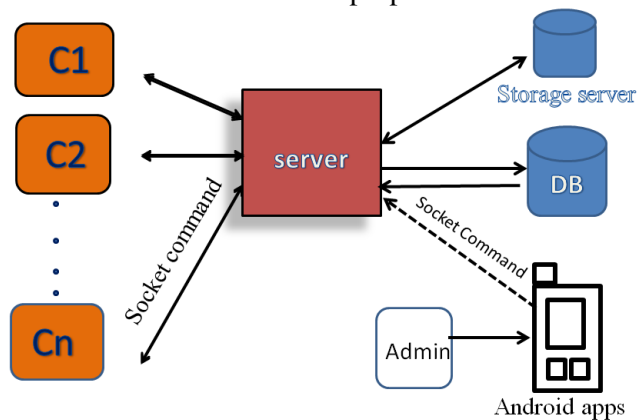
1) **Product function:**

- Server Side Design
- Client Side Design-GUI Interface for sending request to admin.
- Request for Software Installation-Send request to administrator.
- Admin-can View Remote Process Hardware Configuration and Software Configuration.
- GUI Interface-for administrator for viewing Remote process,hardware configuration and software configuration of client.
- Remote Software Installation (Oracle , SQL Server, etc)
- Admin can Freeze Client Screen
- Support for WiFi / LAN Technology.

2) **Administrator:**

- Maintains the database which contains software information, user information and information about requests of clients.
- Administration area secured with user name and password defined.
- Selects the request for installation and gives response to him.
- Handle client PC remotely.
- View process of client
- View Hardware configuration
- View Software Configuration
- Kill Remote process

1)Client:

- All clients store their information by registering themselves at server side.
- Requests for the installation of available software.
- View status of requested software.

3) General Constraints:

Client should be connected in network and power must be on during installation, the computer initiates a network service request to get connect to the server.

Authentication ids necessary for both Clients &administrator. The server responds to the request and responds to the client for authentication.

The Administrator will view the client request and accordingly schedules and initiate the required software installation on the client machine. Till the administrator doesn't initiate the process, the installation will not start at the client side.

IV. APPLICATIONS OF PROPOSED SYSTEM

LAN monitoring at the University/college level can be used android app for monitoring, logging and retention of network packets that traverse university networks. The goal of this project is to maintain confidentiality, integrity availability of the university network infrastructure and information assets.

LAN monitoring at the office level can be used to monitor the office LAN by the administrator at any time if at a particular point he/she cannot be present there by using the mobile phone.

We can Handle the machines remotely and remotely installation of software without interaction of clients.

V. CONCLUSIONS

The recommended approach is to implement Mobile Based LAN Monitoring and Control Software Installation which will easily interact with the LAN for monitoring and controlling via android app.

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