Demo Requirement for WiFiRe testbed

Hardware Requirements

1. PC requirement
4 machine (512 RAM preferable) in TestBed
These will be configured as:
   • 1 BS
   • 2 STs
   • 1 proxy machine
All 4 machines in TestBed need minimum 2 NICs. Also make sure that NIC are detected by OS.
In case of any issue with NIC, check drivers. OR replace the card.
Machine's OS should be Linux-(Ubuntu or any Debian based Linux preferred).

Additionally,
Few clients (minimum 2) machines which connects to both STs.
This client can be any random Linux machine.
No specific configuration requirement for this.

2. For VoIP demo
One PSTN line with Telephone Handset
VOIP Gateway(ex:Analog Telephone Adapter from Linksys-cisco) to connect outside PSTN line (We will carry this with us)
Headphone for VoIP testing (min 2)

3. Ethernet cables and devices
We need 3-4 Ethernet switches, 10 (some long and some short) Ethernet cables and 4 cross-cables.

Software Requirement:

Proxy should have following software:
1. Squid Proxy server
2. maraDNS (cache DNS forwarder)
3. Asterisk VoIP server
4. Apache Web Server
5. Proxy should be connected to outside world and should able to access Internet.

Configuration of above packages is given in report.

Wire-shark / Ethereal for network sniffing and debugging
VoIP clients like SJ-Phone.