

## Daniel Wells – 02/09/2008 – MSc in Computer Science

### Progress Report:

#### --Masters Progress

- Squid Disengaged (for the moment)
  - Not required for the SCW deployment
    - Rhodes has an extensive cache
  - Will be required for Dwesa deployment
- PPPoE
  - Was working, briefly, then I broke the routing trying to fix it starting at boot
  - Access Concentrator
    - PPPoEd runs (“danppoe”)
    - Similar to dukat.dsl settings
    - Grand need to configure a routes.sh and /root/admin/Makefile to configure routes and subscribers automatically
    - Routing currently giving me headaches, trying to wrap head around many different IPs and how things actually work (getting there!)
  - Routers
    - PPP starts at boot (connecting to “danppoe”)
    - As far as I know, this seems to be working fine
- Blog
  - Wrote a quick post last night (simple and quick update on Masters progress)

#### --Next Up

- Silly brown outs; I hereby requisition a UPS
- Get PPPoE working
- PPPoE
  - Would be nice to have a web based user management app
  - Easy enough to modify the subscribers file and rest is updated automatically
  - User management with FreeRADIUS? (Look into)
  - Client side
    - PHP Web Based app to enter details for PPP once off, this then checks and configures PPP on the client.
- Cacti and Alvarion MIBS
  - Get Alvarion WiMAX MIBS, allowing monitoring and graphing of connection speeds, number of connected clients, etc.
- Vmware Studio
  - Sounds very interesting, must look into it
- Time Line for deployment in SCW

- How I will do it
- When things will be ready to be deployed
- Milestones for finished components
  - PPPoE
    - Routing properly working through PPP tunnels
    - Simple user management
  - Cacti
    - Start graphing
    - Alvarion Mibs
  - Deploy to separate machine
    - Whether that be a machine running Vmware or a full reinstall of FreeBSD and with my solution
    - Test intensively
  - Install WiMAX kit at my digs
  - Deploy machine in parallel with dukat.dsl.ru.ac.za
    - Dukat.dsl serving “scwpppoe”
    - My machine serving “danpppoe” and just my digs
    - Once initial testing with just my digs complete, start taking over connections from “scwpppoe”