Console Interface

ConsoleStructure

- Console access via ssh
- Console accessviacommportserial
- Shell Commands via WebUI – Command Execution
- Gateway CLI Commands via WebUI – Command Execution
- Operating systemisLinux based. Therefore Linux expertise is mandatory.

> Working in shell is very powerful and flexible, but also dangerous
> A system can be corrupted, formatted, erased if user makes a mistake.

Connect via SSH

Use default SSH clients on any desktop

- Windows – putty
- Linux – native ssh

On login prompt

- Username: root
- Password: < your custom password >

Connect via USB Serial

- USB to Serial cable
  - Use supplied usbtoserial cable
- Configure Terminal Client on Laptop
  - Windows HyperTerminal
  - Linux –mincomm
- Serial Settings
  - 115200, N, 8, 1 vt100
- Press enter a few times until a login prompt appears.
  - Loginvia: username: root, password:sangoma

Bash Shell

Once successfully logged into the system, either via sshorusb serial, user will be offered a bash prompt.

- SBC system is based on Linux
- The initial console after login will be a bash shell

System Commands

System commands are based on Linux operating systems.
Listed here aresomemost useful debugging commands.

- tcpdump
  - Provides network capture to a pcap file

    - Can be analyzed usingwiresharkon Desktop or Laptop.
- ethtool
    - Provides detail network interface information, like Ethernet link status.
    - Run:ethtool for all the options
    - Eg: ethtool eth0 – show Ethernet status
- Ifconfig
    - Network interface statistics tool
    - Shows error counters on Ethernet and TDM interfaces.
    - Notice the error and overrun counters onwanpipew1g1 interfaces.
- nsc_cli
- Provides SBC CLI

Refer to the appendix for all System Commands

SBC CLI – nsc_cli

- First log into the System Console (bash)
- Once on bash prompt: run
    - nsc_cli

> The SBC gateway must be running and started in Control Panel.

Command Description

status	Shows SBC Status
showchannels	List all active calls
log[debug, error,crit]	Set log level to debugloglevelcritical