**HUAWEI ROUTER BUILD GUIDE**

**Preliminaries:**

1. Telnet to the console port from AIP-TS
   1. Kitty/Putty : Hostname { aipweb.localnet } Port { 22 } “Enter”
   2. Login: j\_\*\*\*\*\*\*\* psw: P1Jp3D99
   3. telnet 172.17.2.62
   4. psw hello123
   5. **AIP-TS>** enable (en); psw: hello123
   6. **AIP-TS#** clear line *{port no.}*
   7. **Enter** n times
   8. 172.17.2.62 20{port no.}
2. Login: **admin**
3. Password: **Admin@huawei** or **admin**
   1. **Yes –** if you want to stop auto config from being run
4. Enter: ***system-view***
5. Enter: **display version**
6. Ensure the OS version is: AR200-V200R005C20SPC200
   1. If it isn’t, the one on AIPWEB will need copying across there is a guide for this at the end of this document
7. Enter: ***interface Vlanif 1 (int vlan1)***
8. Configure an IP address that it is not is use, e.g. ***ip address 172.17.2.71 255.255.255.0***
   1. Check that whatever address you choose is not in use i.e ping-able from AIPWEB
   2. If building more than one router, obviously use a different available IP for each
9. Enter: ***quit*** to exit out of the interface config
10. Enter: ***quit*** to exit out of system-view

**Applying the Config:**

1. The host prompt should now be **<Huawei>**
2. Copy the config file from AIPWEB via tftp
   1. E.g. enter: ***tftp 172.17.2.1 get customer-conf/***YHPSN/ROTHERHAM-MBC ***config.cfg***
      1. (change the source cfg file name as required)
   2. **Note: the source file path is limited to 6un 4 characters, so if the file won’t tftp across you will need to copy it to the “tftpboot” folder on AIPWEB. This can be done via the CLI or WINSCP. If this is the case the command will either time-out or claim a faulty data-link (just check layer 1&2 of the OSI model to rule it out – Physical & Data Link. Cable is working & Checking interface is UP etc)**
   3. **Via the CLI**
      1. **in AIPWEB enter: *cd/tftpboot***
      2. **then enter: *cp customer-conf/YO-Sushi/* NET17316-DSL-HARROGATE.CE1.cfg “Name of new file”**
         1. (change the cfg file name as required)
      3. Then back on the Huawei router enter: **tftp 172.17.2.1 get NET17316-DSL-HARROGATE.CE1.cfg config.cfg**
         1. (change the source cfg file name as required)
      4. **Most exceed the 64 character limit so the second option is usually the best to use. You can use a Microsoft Excel document to get an accurate character count using the “=LEN(A1)” formula**

**Set to “Startup” and the Reboot Process:**

1. Once the file has successfully copied it will need to be set to the startup config as follows:
   1. Enter: **startup saved-configuration flash:/NET18866-RC3517RMBC.CE1.cfg**
   2. Enter: **display startup** and ensure ***config.cfg*** is set as the “Next startup saved-configuration file”
   3. Enter: ***reboot***
   4. Enter: **N** on the following prompt:
      1. **Info: The system is comparing the configuration, please wait.**
      2. **Warning: All the configuration will be saved to the next start-up configuration. Continue? [Y/N]:**
   5. Enter: **Y** on the following message
      1. **System will reboot! Continue? [y/n]:**
2. The router will re-boot, when it comes up, enter: ***system-view*** and check the following:
   1. The hostname is correct. Example: “NET17316-HARROGATE.CE1”
   2. Connect a DSL line and Ping the configured routers LoopBack interface from AIP Web
   3. Using the **disp vlan brief** check the below VLANs are present
      1. 1                     enable  UT: Eth0/0/3(D)                                     
         250                   enable  UT: Eth0/0/1(D)                                     
         300                   enable  UT: Eth0/0/0(U)                                     
         301                   enable  UT: Eth0/0/2(D)

**Privilege mode password should be “hello123”. Configuration can then be wiped with a “reset saved-configuration” command.**

**Helpful commands for Apprentices and those unfamiliar with Huawei:**

Console Login details are:

**Bustr\*\*\*\*\*/Unr3l1able**

**Dir** - shows flash

**Reset saved-configuration** - wipes Config

**Delete flash:/config.cfg** – Deletes a specific file, in this instance located in the flash and named config.cfg

**Display interface brief** – Same function as the LINUX command “Show IP Interface Brief”

**Display interface vlanif 1** – Specific Interface details, what IP address it is using etc.

**Use this for OS upgrades:**

TFTP transfer seems to be excessively slow so this process uses FTP  
Commands in this section must be issued from the [...] prompt:

* Assign an IP address in order to ftp if not already done so:

**System-view**

**int vlanif1  
ip address 172.17.2.77 255.255.255.0**  
  
Commands in this section must be issued from the <...> prompt:   
**ftp 172.17.2.1**  
enter username: a\_apache (change to be relevant to your personal details  
password: password (^^^^^^)  
**get AR1220E-V200R009C00SPC500.cc**

(Must have the relevant Image saved to your personal AIP Web directory – see notes at the end)   
  
**quit**  
Commands in this section must be issued from the <...> prompt:   
**startup system-software flash:/AR1220E-V200R009C00SPC500.cc**

**Startup patch flash:/**  
  
**save  
reboot**

**Look out for the correct IOS loading during the Boot process**



Notes]

Log in using AIP Web credentials. Save IOS to your home directory on AIP Web

Cp /tftpboot/AR200-V200R005C20SPC200.cc AR200-V200R005C20SPC200.cc

Default Login Credentials admin/Admin@huawei (case sensitive)

**Scenario: If upon a reload the router appears to be blank again (despite having config.cfg as the “Next Startup-config file”):**

Once copied do a #more flash:/config.cfg

If config appears all construed with chevrons – the formatting is wrong

Therefore the config file needs dragging over to your local system, open with WINSCP editor (right click) and saved as an ANSI file rather than UTP-8. Check for obscure code “o:?” or similar or if the whole config appears to be written out on one line.

Once formatted correctly simply drag the correct file over to tftpboot again