

APPENDIX K

MAIN PROCESSOR HARD DRIVE CONFIGURATION VERIFICATION PROCEDURES

K-1 Part A - Basic Check

This procedure is used to verify the hostname, HOSTS file, IP address, and date/time/time zone for the UNIX operating system on a new main processor (MP) hard drive (B440-1A9A8-0MP or 5MP) when it is received from the National Reconditioning Center (NRC) through the National Logistics Support Center (NLSC). The new hard drive has the UNIX operating system already installed. These procedures require that the new hard drive is installed in the processor, the processor is installed in the system, and the system turned on.

NOTE: *The CRS Application Software is not loaded on the new hard disk drive.*

NOTE: Use the IP addresses from your system to perform the following steps.

The IP Addresses are in the `/etc/hosts` file on both of the MPs and all of the Front End Processors (FEP). ***This file is the same on all computers in the CRS except for the Voice Improvement Processor (VIP).***

To print out or view the host file:

From the master MP CRS control interface screen, click the **Maintenance** menu and select **UNIX Shell** to access a UNIX shell.

To print:

Type `cat /etc/inet/hosts | lp` and press the <Enter> key. (This sends the host file to the printer in the Equipment Room. Only the MP that is running as the MASTER can send files to the printer.)

To view:

Type `pg /etc/inet/hosts` and press the <Enter> key. (This works from both the MPs and FEPs.)

From the CRS Login Screen enter the following:

1. Login ID: Type `root` and press the <Tab> key.
2. Password: Type `nws2000`.
3. Click **Login** or press the <Enter> key.

NOTE: The new hard drive from NLSC will have the Node Name set to OMP or 5MP.

4. Click the **KDE Desktop Application Starter** icon (the big **K Wheel** icon) in the lower left part of the *KDC Desktop panel*.
5. Click the **Utilities -> Terminal** pop-up menu selection.
6. At the `OMP{root}` prompt, type `hostname` and press the **<Enter>** key.
7. Verify the node name, **OMP** or **5MP**, is the correct workstation being used.
8. At the `OMP{root}` prompt, type `pg /etc/inet/hosts` and press the **<Enter>** key. (This command displays the file for verification.)

EXAMPLE of CRS /etc/inet/hosts file (2 types):

TYPE A

```
#ident "@(#)/etc/inet/hosts.s1 1.1 UW2.01 02/07/95 52758 NOVELL"
#ident "$Header: /sms/sinixV5.4es/rcs/s19-full/usr/src/cmd/cmd-
inet/etc/hosts,v1.1 91/02/28 16:30:32 ccs Exp $"
#
# Internet host table
#
#      Site Name                (Site name or ID)
127.0.0.1      localhost            (Do not remove, required in system)
165.92.XXX.111  OMP                    OMP      (Normal operation this is the Master MP)
165.92.XXX.112  5MP                    5MP      (Normal operation this is the Slave MP)
165.92.XXX.113  1FEP                   1FEP     (Front End Processor)
165.92.XXX.114  2FEP                   2FEP     (Front End Processor)
165.92.XXX.115  3FEP                   3FEP     (Front End Processor)
165.92.XXX.116  4BKUP                  4BKUP    (Backup Front End Processor)
165.92.XXX.117  ps8                    ps8      (LAN Server for AFOS, Printer, ROAMS)
165.92.XXX.121  vip                    VIP      (Voice Improvement Processor)
165.92.XXX.122  lb2                    LB2      (LAN Bridge)
165.92.XXX.1    as1                    as1      (AWIPS)
165.92.XXX.2    as2                    as2      (AWIPS)
```

TYPE B

```
#ident "@(#) /etc/inet/hosts.s1 1.1 UW2.01 02/07/95 52758 NOVELL"
#ident "$Header: /sms/sinixV5.4es/rcs/s19-full/usr/src/cmd/cmd-
inet/etc/hosts,v1.1 91/02/28 16:30:32 ccs Exp $"
#
# Internet host table
#
#      Site Name                (Site name or ID)
127.0.0.1      localhost            (Do not remove required in system)
165.92.XXX.241  OMP                OMP      (Normal operation this is the Master MP)
165.92.XXX.242  5MP                5MP      (Normal operation this is the Slave MP)
165.92.XXX.243  1FEP               1FEP     (Front End Processor)
165.92.XXX.244  2FEP               2FEP     (Front End Processor)
165.92.XXX.245  3FEP               3FEP     (Front End Processor)
165.92.XXX.246  4BKUP              4BKUP    (Backup Front End Processor)
165.92.XXX.247  ps8                ps8      (LAN Server for AFOS, Printer, ROAMS)
165.92.XXX.251  vip                VIP      (Voice Improvement Processor)
165.92.XXX.252  lb2                LB2      (LAN Bridge)
165.92.XXX.1    as1                as1      (AWIPS)
165.92.XXX.2    as2                as2      (AWIPS)
```

NOTE: Only the following sites will use TYPE B: BOU, BYZ, EYW, FSD, GGW, ILM, LBF, SJU, TFX, TOP, UNR.

9. If the file contents are correct, proceed to step 11.
10. If incorrect, go to Part B (section K-1.2).
11. At the OMP{root} prompt, type **date** and press the <Enter> key.
12. Verify time, time zone, and date are correct.
 - a. If correct, proceed to step 13.
 - b. If incorrect, go to Part C.
13. At the OMP{root} prompt, type **exit** and press the <Enter> key. (This closes the terminal window.)
14. Click the **SCO admin** icon (the **Swiss Army Knife** icon) in the lower right part of the *KDC Desktop panel*.
15. Double click on **Networking**.
16. Double click on **Network Configuration Manager**.
17. Select **TCP/IP**.

18. Select **Protocol**.
19. Select **View Protocol Configuration**.
20. Verify Host name. (*OMP* or *5MP*).
21. Verify IP address.

NOTE: OMP is 165.92.XXX.111 (TYPE A) or 165.92.XXX.241 (TYPE B).
5MP is 165.92.XXX.112 (TYPE A) or 165.92.XXX.242 (TYPE B).

22. Verify netmask is **255.255.0.0**.
23. Verify Broadcast Address is **165.92.255.255**.
24. Select **OK** to exit.
25. Select **Hardware**.
26. Select **Exit**.
27. Select **File**.
28. Select **Exit**.
29. If the hostname, IP address, and netmask values are correct, proceed to step 31.
30. If incorrect, go to Part D.
31. Click the **KDE Desktop Application Starter** icon (the big **K Wheel** icon) in the lower left part of the *KDC Desktop panel*.
32. Click the **Utilities -> Terminal** pop-up menu selection.
33. At the `OMP{root}` prompt, type **ping 5MP**. The reply on the next line will be: *5MP is alive*.

NOTE: If the reply to the ping command is not returned, stop this procedure, and identify and correct the LAN problem (i.e., LAN cables, connections).

34. Repeat step 33 for all remaining FEPs and 4BKUP, VIP, Port Server (PS8), and AWIPS lines (as1, as2).
35. Right-click mouse on **blank area** of desktop.
36. Select **logout**.
37. Session prepared for logout, select **logout**. The main login screen displays (finished check.)

K-2 Part B - HOSTS File Correction

This procedure is used to correct the HOSTS file for the UNIX operating system on a new hard drive when it is received from NRC thru NLSC. The new hard drive will have the UNIX operating system already installed. These procedures require that the new hard drive is installed in the processor, the processor is installed in the system, and the system turned on.

NOTE: *The CRS Application Software is not loaded on the new hard disk drive.*

NOTE: Use the IP addresses from your system to perform the following steps.

The IP addresses are in the `/etc/hosts` file on the both of the MPs and all the FEPs. ***This file is the same on all the computers in the CRS except for the VIP.***

To print out or view the host file:

From the master MP CRS Control Interface Screen, click the **Maintenance** menu and select **UNIX Shell** to access a UNIX shell.

To print:

Type `cat /etc/inet/hosts | lp` and press the <Enter> key. (This sends your host file to the printer in the equipment room—only the MP running as the MASTER can send files to the printer.)

To view:

Type `pg /etc/inet/hosts` and press the <Enter> key. (This works from both the MPs and FEPs.)

From the CRS Login Screen enter the following:

1. Login ID: Type `root` and press the <Tab> key.
2. Password: Type `nws2000`.
3. Click **Login** or press the <Enter> key.

NOTE: The new hard drive from NLSC will have the Node Name set to 0MP or 5MP.

4. Click the **KDE Desktop Application Starter** icon (the big **K Wheel** icon) in the lower left part of the *KDC Desktop panel*.
5. Click the **Applications -> Text Editor** pop-up menu selection.
6. Click **File**.

7. Click **Open**.
8. Double-click **etc**.
9. Double-click **inet**.
10. Double-click **hosts**.

NOTE: Make sure this file matches all the other CRS processor's `/etc/inet/hosts` files.

11. Edit file.

EXAMPLE of CRS `/etc/inet/hosts` file (2 types):

TYPE A

```
#ident "@(#) /etc/inet/hosts.sl 1.1 UW2.01 02/07/95 52758 NOVELL"
#ident "$Header: /sms/sinixV5.4es/rcs/s19-full/usr/src/cmd/cmd-
inet/etc/hosts,v1.1 91/02/28 16:30:32 ccs Exp $"
#
# Internet host table
#
#           Site Name                (site name or ID)
127.0.0.1   localhost                (do not remove required in system)
165.92.XXX.111 0MP                  0MP      (normal operation this is the Master MP)
165.92.XXX.112 5MP                  5MP      (normal operation this is the Slave MP)
165.92.XXX.113 1FEP                  1FEP     (Front End Processor)
165.92.XXX.114 2FEP                  2FEP     (Front End Processor)
165.92.XXX.115 3FEP                  3FEP     (Front End Processor)
165.92.XXX.116 4BKUP                 4BKUP    (backup Front End Processor)
165.92.XXX.117 ps8                    ps8      (LAN Server for AFOS, Printer, ROAMS)
165.92.XXX.121 vip                    VIP      (Voice Improvement Processor)
165.92.XXX.122 lb2                    LB2      (LAN Bridge)
165.92.XXX.1  as1                    as1      (AWIPS)
165.92.XXX.2  as2                    as2      (AWIPS)
```

TYPE B

```
#ident "@(#) /etc/inet/hosts.s1 1.1 UW2.01 02/07/95 52758 NOVELL"
#ident "$Header: /sms/sinixV5.4es/rcs/s19-full/usr/src/cmd/cmd-
inet/etc/hosts,v1.1 91/02/28 16:30:32 ccs Exp $"
#
# Internet host table
#
#      Site Name                (site name or ID)
127.0.0.1      localhost              (do not remove required in system)
165.92.XXX.241  OMP                OMP      (normal operation this is the Master MP)
165.92.XXX.242  5MP                5MP      (normal operation this is the Slave MP)
165.92.XXX.243  1FEP               1FEP     (Front End Processor)
165.92.XXX.244  2FEP               2FEP     (Front End Processor)
165.92.XXX.245  3FEP               3FEP     (Front End Processor)
165.92.XXX.246  4BKUP              4BKUP    (backup Front End Processor)
165.92.XXX.247  ps8                ps8      (LAN Server for AFOS, Printer, ROAMS)
165.92.XXX.251  vip                VIP      (Voice Improvement Processor)
165.92.XXX.252  lb2                LB2      (LAN Bridge)
165.92.XXX.1    as1                as1      (AWIPS)
165.92.XXX.2    as2                as2      (AWIPS)
```

NOTE: Only the following sites will use TYPE B: BOU, BYZ, EYW, FSD, GGW, ILM, LBF, SJU, TFX, TOP, UNR.

12. Click **File**.
13. Click **Save**.
14. Click **File**.
15. Click **Exit**.
16. Right-click the mouse on a **blank area** of the desktop.
17. Select **logout**.
18. Session prepared for logout, select **logout**. The main login screen displays (finished).

K-3 Part C - Date/time/time Zone Correction

This procedure is used to correct the date/time/time zone for the UNIX operating system on a new hard drive when it is received from NRC thru NLSC. The new hard drive will have the UNIX operating system already installed. These procedures require that the new hard drive is installed in the processor, the processor is installed in the system, and the system turned on.

NOTE: *The CRS Application Software is not loaded on the new hard disk drive.*

NOTE: Use the IP addresses from your system to perform the following steps.

The IP addresses are in the `/etc/hosts` file on the both of the MPs and all the FEPs. ***This file is the same on all the computers in the CRS except for the VIP.***

To print out or view the host file:

From the master MP CRS Control Interface Screen, click the **Maintenance** menu and select **UNIX Shell** to access a UNIX shell.

To print:

Type `cat /etc/inet/hosts | lp` and press the <Enter> key. (This sends the host file to the printer in the equipment room—only the MP that is running as the MASTER can send files to the printer.)

To view:

Type `pg /etc/inet/hosts` and press the <Enter> key. (This works from both the MPs and FEPs.)

From the CRS Login Screen enter the following:

1. Login ID: Type `root` and press the <Tab> key.
2. Password: Type `nws2000`.
3. Click **Login** or press the <Enter> key.

NOTE: The new hard drive from NLSC will have the Node Name set to 0MP or 5MP.

4. Click the **SCO admin** icon (the **Swiss Army Knife** icon) in the lower right part of the *KDE Desktop panel*.
5. Double-click **System**.
6. Double-click **System Time Manager**.

7. Select **Host**.
8. Select **Change Time zone**.
9. Select the proper time zone.
10. Select **OK** to exit.
11. Select **OK** to accept changes.
12. Select **Host**.
13. Select **Exit**.
14. Select **File**.
15. Select **Exit**.
16. Click the **KDE Desktop Application Starter** icon (the big **K Wheel** icon) in the lower left part of the *KDE Desktop panel*.
17. Click the **Utilities -> Terminal** pop-up menu selection.
18. At the `OMP{root}` prompt, type `/sbin/shutdown -y -g0 -i0` and press the **<Enter>** key.

NOTE: Reboot the processor when the time zone is changed.

From the CRS Login Screen enter the following:

19. Login ID: Type `root` and press the **<Tab>** key
20. Password: Type `nws2000`.
21. Click **Login** or press the **<Enter>** key

NOTE: The new hard drive from NLSC will have the Node Name set to OMP or 5MP.

22. Click the **SCO admin** icon (the **Swiss Army Knife** icon) in the lower right part of the *KDC Desktop panel*.
23. Double-click **System**.
24. Double-click **System Time Manager**.
25. Select **Host**.
26. Select **Set Time**.
27. Select proper time in hours and minutes and proper date in year, month, day.
28. Select **OK** to exit.

29. Select **OK** to accept changes.
30. Select **Host**.
31. Select **Exit**.
32. Select **File**.
33. Select **Exit**.
34. Right-click the mouse on a **blank area** of the desktop.
35. Select **logout**.
36. Session prepared for logout, select **logout**. The main login screen displays (finished).

K-4 Part D - Hostname, IP Address, and Netmask Correction

This procedure is used to verify the hostname, IP address, and netmask for the UNIX operating system on a new hard drive when it is received from NRC thru NLSC. The new hard drive will have the UNIX operating system already installed. These procedures require that the new hard drive is installed in the processor, the processor is installed in the system, and the system turned on.

NOTE: *The CRS Application Software is not loaded on the new hard disk drive.*

NOTE: Use the IP addresses from your system to perform the following steps.

The IP addresses are in the `/etc/hosts` file on both of the MPs and all the FEPs. ***This file is the same on all the computers in the CRS except for the VIP.***

To print out or view the host file:

From the master MP CRS Control Interface Screen, click the **Maintenance** menu and select **UNIX Shell** to access a UNIX shell.

To print:

Type `cat /etc/inet/hosts | lp` and press the **<Enter>** key. (This sends the host file to the printer in the equipment room—only the MP that is running as the MASTER can send files to the printer.)

To view:

Type `pg /etc/inet/hosts` and press the **<Enter>** key. (This works from both the MPs and FEPs.)

From CRS Login Screen enter the following:

1. Login ID: Type **root** and press the <Tab> key
2. Password: Type: **nws2000**.
3. Click **Login** or press the <Enter> key.

NOTE: The new hard drive from NLSC will have the Node Name set to OMP or 5MP.

4. Click the **SCO admin** icon (the **Swiss Army Knife** icon) in the lower right part of the *KDC Desktop panel*.
5. Double-click **Networking**.
6. Double-click **Network Configuration Manager**.
7. Select **TCP/IP**.
8. Select **Protocol**.
9. Select **Modify Protocol Configuration**.
10. Correct Host name if needed. (OMP or 5MP).
11. Correct IP address if needed.

NOTE: OMP is 165.92.XXX.111 (TYPE A) or 165.92.XXX.241 (TYPE B).
5MP is 165.92.XXX.112 (TYPE A) or 165.92.XXX.242 (TYPE B).

12. Correct Netmask if needed. (**255.255.0.0**).
13. Correct Broadcast Address if needed. (**165.92.255.255**).
14. Select **OK** to exit.
15. Select **OK** to exit.
16. Select **Hardware**.
17. Select **Exit**.
18. Select **File**.
19. Select **Exit**.
20. Click the **KDE Desktop Application Starter** icon (the big **K Wheel** icon) in the lower left part of the *KDC Desktop panel*.
21. Click the **Utilities -> Terminal** pop-up menu selection.
22. At the OMP{root} prompt, type **/sbin/shutdown -y -g0 -i0** and press the <Enter> key.

NOTE: Reboot the processor when anything in the Network Configuration Manager is changed.

From the CRS Login Screen enter the following:

23. Login ID: Type **root** and press the <Tab> key.
24. Password: Type **nws2000**.
25. Click **Login** or press the <Enter> key.

NOTE: The new hard drive from NLSC will have the Node Name set to OMP or 5MP.

26. Click the **KDE Desktop Application Starter** icon (the big **K Wheel** icon) in the lower left part of the *KDE Desktop panel*.
27. Click the **Utilities -> Terminal** pop-up menu selection.
28. At the prompt, type **ifconfig -a** and press the <Enter> key.

The following is an example from a WSH session:

```
OMP{root} ifconfig -a <---- User types this.
lo0: flags=4049<UP,LOOPBACK,RUNNING,MULTICAST> mtu 16384
inet 127.0.0.1 netmask ff000000
inet/perf: rcv size: 4096; send size: 8192; full-size frames: 1
inet/options: rfc1323
net0: flags=4043<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 165.92.20.111 netmask ffff0000 broadcast 165.92.255.255
inet/perf: rcv size: 24576; send size: 24576; full-size frames: 1
inet/options: rfc1323
ether 00:d0:b7:65:58:f5
OMP{root}
```

NOTE: The net0 netmask and broadcast addresses, underlined in the above example, should be ffff0000 and 165.92.255.255, respectively. These values are true for ALL sites.

29. At the OMP{root} prompt, type **exit** and press the <Enter> key. (This closes the terminal window.)
30. Right-click the mouse on a **blank area** of the desktop.
31. Select **logout**.
32. Session prepared for logout, select **logout**. The main login screen displays (finished).