Xstation 140/150 Setup Procedures

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Note: The information in this document has **not** been verified for AIX 4.1.

About This Document

This document describes setting up an Xstation 140/150. Provided below are 4 sample configuration scenarios which can used as a guide by System Administrators in setting up an Xstation.

NOTE: The examples use the Xstation 140 as a default, just substitute 150 where applicable.

Xstation Setup Procedure

Before starting the set up procedure, Check Your Inventory:

- Mouse
- Keyboard
- System unit (power cord)
- Display (cable and power cord)

Then perform the following:

1. Turn off the power switch.
2. Connect the keyboard and mouse.
3. Connect the network cables.
4. Turn off the display power switch and connect the display cables.
5. Connect the power cable to the system Unit.

6. Plug in the power cables into electrical outlets.
7. Turn On the power switch to the display and then the Xstation.
8. At the initial boot screen, determine the Xstation's Hardware Address and give this to your System Administrator.

Now the Xstation can be configured on the network.

AIX Boot Host, No Gateway, x_st_mgrd File Server

1. Add Xstation's IPaddress and name to /etc/hosts. Such as:

```
129.35.147.173    xstation1
129.35.147.93     boothost1
```

2. To Define the Xstation use the command

```
smitty x_config
```

```
*************************************************************
Define an Xstation Network Type
*************************************************************
Type or select values in entry fields.
Press Enter AFTER making all desired changes
[Entry Fields]
* Xstation Network TYPE Name     [x_st_mgr.network1]
* NETWORK Type                  [ethernet]
* SERVER PORT Number             [9000]
---> x_st_mgrd port number is in /etc/services.
9000 is smit default.
* HOME Directory                [/etc/x_st_mgr]
* BOOTFILE                      [X140serv]
* DOMAIN Name Server             [ ]
* GATEWAY                       [ ]
Subnet MASK                     [ ]
*************************************************************
Add an Xstation
*************************************************************
Add an Xstation 140
*************************************************************
Type or select value in entry fields.
Press Enter AFTER making all desired changes.
[Entry Fields]
* Xstation NAME                 [xstation1]
* Xstation Network TYPE          [x_st_mgr.network1]
* Hardware ADDRESS               [XXXXXXXXXXXX]
---> get from initial boot screen
*************************************************************
```

3. Verify the following on the boot host:

- Appropriate network is up.
- x_st_mgrd is running.
- inetd is running(tftpd, bootpd configured in /etc/inetd.conf)
- If /etc/tftpaccess.ctl is present (secure tftp) /etc/x_st_mgr,/usr/lib/X11 and /usr/lpp/x_st_mgr are set to "allow"
- Default fonts in place:

```
/usr/lib/X11/fonts
/usr/lib/X11/fonts/misc
/usr/lib/X11/fonts/75dpi
/usr/lib/X11/fonts/100dpi
```

4. Make sure the Xstation is at factory defaults.
   a. Go to Main Menu of Local Configuration (Do this by pressing ESC at the initial boot screen)
   b. Select "Restore Defaults", "Save Changes", and "Reboot".

AIX Boot Host, Gateway Passes Bootp Requests, x_st_mgrd File Server

1. Add Xstation's IPaddress and name to /etc/hosts. Such as:

```
129.35.147.173    xstation1
129.35.147.93     boothost1
129.35.147.100    gateway1
```

2. To configure with SMIT type:

```
smit x_config
```

```
*************************************************************
Define an Xstation Network Type
*************************************************************
Type or select values in entry fields.
Press Enter AFTER making all desired changes
[Entry Fields]
* Xstation Network TYPE Name      [x_st_mgr.network1]
* NETWORK Type                   [ethernet]
* SERVER PORT Number              [9000]
---> x_st_mgrd port number is in /etc/services.
9000 is smit default.
* HOME Directory                 [/etc/x_st_mgr]
* BOOTFILE                       [X140serv]
* DOMAIN Name Server             []
* GATEWAY                        [129.35.147.100]
Subnet MASK                     [255.255.240.0]
*************************************************************
Add an Xstation
*************************************************************
Add an Xstation 140
*************************************************************
Type or select value in entry fields.
Press Enter AFTER making all desired changes.
[Entry Fields]
* Xstation NAME                  [xstation1]
* Xstation Network TYPE          [x_st_mgr.network1]
* Hardware ADDRESS               [XXXXXXXXXXXX]
---> get from initial boot screen
*************************************************************
```

3. Verify the following on the boot host:
   - Appropriate network is up.
   - x_st_mgrd is running.
   - inetd is running(tftpd, bootpd configured in /etc/inetd.conf)
   - If /etc/tftpaccess.ctl is present (secure tftp) /etc/x_st_mgr,/usr/lib/X11 and /usr/lpp/x_st_mgr are set to "allow"
   - Default fonts in place:

```
/usr/lib/X11/fonts
/usr/lib/X11/fonts/misc
/usr/lib/X11/fonts/75dpi
/usr/lib/X11/fonts/100dpi
```

4. Make sure the Xstation is at factory defaults.
   a. Go to Main Menu of Local Configuration (Do this by pressing ESC at the initial boot screen)

b. Select "Restore Defaults" and then "Save Changes".

c. Modify Local Configuration

1) Basic Configuration

2) Change Bootp to Direct

3) Add Terminal Internet Address

4) Add Host Internet Address

5) Add Gateway Internet Address

6) Add Subnet Mask

d. Save Changes and Reboot

AIX Boot Host, Gateway Does Not Pass Bootp Requests,x_st_mgrd File Server

1. Add Xstation's IPaddress and name to /etc/hosts. Such as:

```
129.35.147.173    xstation1
129.35.147.93     boothost1
129.35.147.100    gateway1
```

2. To configure useing SMIT type:

```
smit x_config
```

```
*************************************************************
Define an Xstation Network Type
*************************************************************
Type or select values in entry fields.
Press Enter AFTER making all desired changes
[Entry Fields]
* Xstation Network TYPE Name      [x_st_mgr.network1]
* NETWORK Type                   [ethernet]
* SERVER PORT Number              [9000]
---> x_st_mgrd port number is in /etc/services.
9000 is smit default.
* HOME Directory                 [/etc/x_st_mgr]
* BOOTFILE                       [X140serv]
* DOMAIN Name Server             []
* GATEWAY                        [129.35.147.100]
Subnet MASK                     [255.255.240.0]
*************************************************************
Add an Xstation
*************************************************************
Add an Xstation 140
*************************************************************
Type or select value in entry fields.
Press Enter AFTER making all desired changes.
[Entry Fields]
* Xstation NAME                  [xstation1]
* Xstation Network TYPE          [x_st_mgr.network1]
* Hardware ADDRESS               [XXXXXXXXXXXX]
---> get from initial boot screen
*************************************************************
```

3. Verify the following on the boot host:
   - Appropriate network is up.
   - x_st_mgrd is running.
   - inetd is running(tftpd, bootpd configured in /etc/inetd.conf)
   - If /etc/tftpaccess.ctl is present (secure tftp) /etc/x_st_mgr,/usr/lib/X11 and /usr/lpp/x_st_mgr are set to "allow"
   - Default fonts in place:

```
/usr/lib/X11/fonts
/usr/lib/X11/fonts/misc
/usr/lib/X11/fonts/75dpi
/usr/lib/X11/fonts/100dpi
```

4. Make sure the Xstation is at factory defaults.
   a. Go to Main Menu of Local Configuration (Do this by pressing ESC at the initial boot screen)

b. Select "Restore Defaults" and then "Save Changes".

c. Modify Local Configuration

1) Basic Configuration

2) Change Bootp to Disable

3) Add Terminal Internet Address

4) Add Host Internet Address

5) Add Gateway Internet Address

6) Add Subnet Mask

d. Save Changes and Reboot

Non-AIX Boot Host, No Bootp, Gateway, XDM, NFS & TFTP File Servers

1. Add Xstation 's IPaddress and name to /etc/hosts. Such as:

```
129.35.147.173    xstation1
129.35.147.93     boothost1
129.35.147.100    gateway1
129.35.147.101    xdmhost1
```

2. Verify the following on the boot host:

   - Appropriate network is up.
   - tftpd running(font paths & /etc/x_st_mgr are accessible if in secure tftp mode.)
   - nfsd is running(/etc/x_st_mgr,/usr/lib/X11 in /etc/exports)
   - xdm is running on appropriate host
   - Default fonts in place:

```
/usr/lib/X11/fonts/misc
/usr/lib/X11/fonts/75dpi
/usr/lib/X11/fonts/100dpi
```

   All fonts.alias have following first line:

```
FILE_NAMES_ALIASES
```

3. Any manual editing to IPaddress File is correct. (See ip.template in /etc/x_st_mgr/xs140/cfg)

4. Make sure the Xstation is at factory defaults.

   a. Go to Main Menu of Local Configuration (Do this by pressing ESC at the initial boot screen)

   b. Select "Restore Defaults" and then "Save Changes".

   c. Modify Local Configuration

1) Advance Configuration

2) Network Parameters

```
Change Bootp to Disable
Add Terminal Internet Address
Add Host Internet Address
Add Gateway Internet Address
Add Subnet Mask
Change XDMCP to Direct
Add XDMCP Host Internet Address
```

3) File Servers

```
Change Primary to NFS
Add Host Internet Address
Change path if necessary
Change Secondary to TFTP
Add Host Internet Address
Change path if necessary
```

4) Save Changes and Reboot

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