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**AccessBuilder 6200**

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**Release Notes**

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**AccessBuilder 6200  
Broadband Access Multiplexer**

**Release 2.00.00**

## 1.0 Introduction

This release adds the Add/drop, T3 port capability and an alarm when a user logs on or off a AccessBuilder 6200. No further feature enhancements or bug fix's are in this release.

3Coms release of the AccessBuilder 6200 Broadband Access Multiplexer (Release 2.00.00) included the following features:

- Cost-effective T3 and fractional T3 multiplexers for broadband networks
- Wide range of data, voice and video interfaces for applications flexibility
- Fully compatible with the AccessBuilder 6100
- Full interpretability with existing T3 Fractional T3 networks
- Comprehensive diagnostics and native SNMP capabilities for easy local and remote management
- Full 10 Mbps Ethernet communications across the wide area
- Integral SNMP agent for seamless integration with enterprise management systems
- Optional HSSI, V.35 and RS-422/449 interfaces for applications flexibility
- Automatic Frequency Adjustment (AFA) for maximum network uptime
- Diagnostic tools such as alarm reporting, T1 performance monitoring, and loopback settings
- Port cards supported are:
  - ♥ Channelized High Speed Data card (HSDc) V.35, RS449, HSSI and integral Ethernet bridge
  - ♥ DSX 7 port DSX card
  - ♥ DSM 7 T1 DSUs per card
- Up to 4 redundant DS3 trunks and up to 4 DS3 ports
- Up to 84 DSX/DSM ports
- Up to 24 HSDC ports supporting up to 24 AccessBuilder 6100s

The User Information section includes important general information about the release which a user should become familiar with before installation.

This release also includes a list of the current known problems associated with Release 2.00.00 of the AccessBuilder 6200.

For operational details of the above features please refer to AccessBuilder 6200 Broadband Access Multiplexer User's Manual.

## 2.0 User Information

**The following information is to be used as guideline only:**

1. External fuses for the AccessBuilder chassis - when using 48V DC supplies the fuse should be rated at 20 amps and for 120V AC it should be rated at 7 amps
2. Cards should be disabled before unplugging.
3. After unplugging a card, wait 5 seconds before re-inserting it
4. 3Com recommends the use of approved T1 cables for use when terminating T1 networks. Any other cable that does not meet 3Com recommended cable types may produce adverse results and Alarm conditions.

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5. When using a terminal emulation package ensure that VT100 is used and that line wrap is disabled.
6. After changing an IP address reset the AMU (the apply IP command can cause a lockup condition)
7. RS 232 port parameters, e.g., baud, stop bits, etc., can only be adjusted via local VT 100 access to the unit.
8. When using T3s as ports there is important information and rules to follow. **See attachment A.**
9. When adding and removing power supplies or Fan assemblies, important procedures should be followed. **See attachment B.**
10. The menu associated with Circuit build has been enhanced. Now a complete circuit build can be completed in the same screen. In the old menu structure the ports were configured on one screen and network ports were added on another screen. They have now been consolidated into one screen. Another enhancement allows circuits to be built from network ports to network ports. This enhancement allows the Add/drop DACS capability to be used. The pages in the manual that change start on 3-77 and end on 3-82. For more detail **See attachment C.**
11. The AB6200 supports FTP loading and downloading of the operating software and configuration data base. For detailed instructions **See attachment D.**
12. For information regarding errors based on thresholds, please refer to Table 1 below

BER	Total errors in one second	Total errors in one minutes	Total errors in two minutes	Total errors in five minutes	Total errors in 15 minutes
10E-5	15	900	1800	4500	13500
10E-6	1.5	90	180	450	1350
10E-7	0.15	9	18	45	135
10E-8	0.015	1	2	5	13

## 3.0 Unresolved Issues

1. When a card is unplugged and plugged back in quickly in less than 5 seconds the AMU will sometimes not reinitialize the card. Problem: open  
Ref:TTPso
2. In the cards menu the AMU is listed as empty and the CIM is none Problem: open  
Ref:TTPso02818
3. In the cards menu the Jx card is listed as empty Problem: open  
Ref:TTPso02752
4. The CCV (CBIT Code Violation) field of the DS3 performance statistics does not increment with errors less that about 210. This prevents the CES (Cbit errored seconds) field from incrementing for CCV errors less that 44 per sec. Problem: open  
Ref: TTPso02938

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5. After performing a switch over on DDS3C trunk, one of the circuits went into AFA. Some causes for this are:
  - The node that has been powered up occasionally gets one ds1 channel in "afa" state; as seen on the channels screen for ds3 ports.
  - The far end of that channel sees "oof".Work around:
  - Go into the specific channel on the "afa" end; the one that was powered up.
  - Set the channel to "idle", and then to "busy".Problem: open  
Ref:TTPso02904
6. If one of the redundant trunk pairs (say slot 5) is put out of service, the redundant trunk card takes over (slot 6). When that card is put OOS, then slot 5 takes over. Both cards are declared as INACTIVE. This effects HDLC assignment. Problem: open  
Ref:TTPso02909
7. When changing test patterns to 2<sup>15</sup>, occasionally the 2<sup>15</sup> pattern will fail to show pattern sync "OK" even though it is. This is a problem with updating the screen; not with the test module. Problem: open  
Ref:TTPso02919  
Work Around:  
Provoke a redraw of the screen:
  - enter "x" and then the card slot of the slot currently in. (best)
  - enter ESC and then re-enter same screen. (easiest to remember).
8. LCV's are not valid and not detected in the AccessBuilder 6200, so therefore LES's will not be incremented. These two fields will be removed from the DSM performance screens. Problem: open  
Ref:TTPso02940
9. When an AMU is first inserted the DSX circuits may experience errors Problem: open  
Ref:TTPso02689
10. AccessBuilder 6200 HSSI interface doesn't have all CTS options as AccessBuilder 6100 Problem: open  
Ref:TTPso02936
11. The ACO switch may have to be pressed twice in order to release the relays Problem: open  
Ref:TTPso02791
  - The RELEASE of the button is what sets the bit for firmware to read.
  - The bit is reset whenever it is read and so may be cleared by other functions.

## 4.0 Resolved Issues release 1.00.02

1. When 2 DS3s are in the same chassis and the DS3 that is the timing source is removed and then re-installed. The chassis has 2 timing sources and will take several minutes to recover. Problem: fixed
2. Initiating a LB loopback from the AccessBuilder 6200 does not work. Problem: fixed
3. X-Modem download is not supplied. Problem: fixed
4. The AMU will sometimes reset under a very heavy load. Problem: fixed
5. Redundant AMU do not operate. Problem: fixed
6. Telnet from a PC does not work. Problem: fixed

## 5.0 Resolved Issues release 1.01.00

1. The performance monitor will sometimes count bogus errors on LCV Problem: fixed
2. Apply IP address will cause a reset or a lockup condition Problem: fixed

## 6.0 Resolved Issues release 1.01.01

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1. This release converts the BMX28 to AccessBuilder 6200 and 3Com colors, labels and Menus. No feature enhancements or bug fixes are in this release Problem: N/A

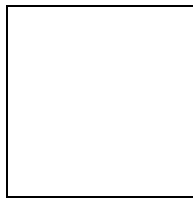
## 7.0 Resolved Issues release 2.00.00

1. This release adds the Add/drop and T3 port capability to AccessBuilder 6200. No further feature enhancements or bug fix's are in this release Problem: N/A

## Attachment A

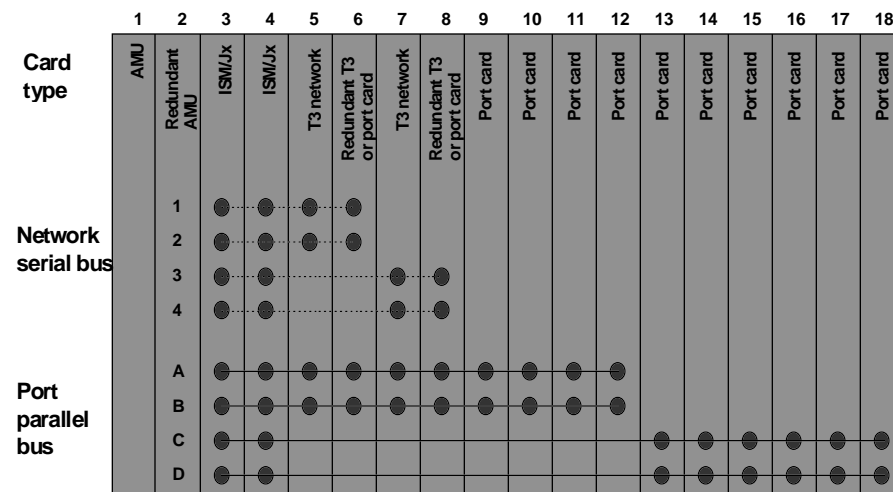
### *AB6200 Bus architecture*

The AB6200 models consists of fully enclosed, 19-inch, rack-mountable shelves with front and rear access and associated plug-in modules. Connectors are mounted on a mid-plane allowing modules to be installed from the rear (a CIM) of the shelf as well as from the front (a Module). (see figure below).



### AB6200 Module/Backplane Configuration

On the center plane there are 4 high speed parallel buses. Each parallel bus carries a full T3 of 28 T1s. Any of the trunk or port cards have access to these busses. In a AB6218 with a ISM installed 4 more busses are used. These busses are serial and are the basis for the switching matrix. The ISM is a Switching (DACSing) card. Only the ISMs and Network (T3) cards have access to the serial busses. Traffic is brought in over the Network T3 cards and then placed on the Serial bus. The ISM then picks up the T3s, performs the Switching (DACS) function and then places the rearranged T3s on the Parallel bus. With this arrangement the AB6218 plus ISM acts as a DACS. (see Figure below).



AB6218 bus architecture

### *T3 ports in an AB6218 with ISM*

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A T3 module can be used as a port card in the AB6218 with a ISM installed. When this is done there are important design considerations that must be taken into account. A T3 port that is not in slots 5 or 7 will use a whole parallel bus. Nothing else can be built on that bus once a T3 port is installed. This can waste bandwidth that could be used for port cards. Always first try to mix T3 ports in slots 5 or 7 with the network trunks. If this is not possible very specific rules must be followed when slots 5 or 7 are not used for network and port requirements. (See Figure above)

## ***Rules for using T3 ports in an AB6218 with ISM***

The rules of thumb are:

1. Slot 5 and 7 are always reserved for single or dual DS3 modules which can be used as port or network connections, this provides 4 total T3s
2. Slots 13-18 are always reserved first for HSDC, DSM and DSX
3. T3 network and ports connections should always first try to use slots 5 or 7
4. If 5 DS3s are needed a single DS3 should be placed in slot 9 and up to 28 DS1s can be used in slots 6, 8, 10 or 11 and 56 DS1s in the remaining slots by HSDc, DSM or DSX modules
5. If 6 DS3s are needed, a dual DS3 should be placed in slot 9 and slots 6, 8, 10 or 11 can not be used for HSDc, DSM or DSX modules, 56 DS1s may be used in the remaining slots by HSDc, DSM or DSX modules
6. If 7 DS3s are needed a dual DS3 should be placed in slot 9 and single DS3 should be placed in slot 17. Up to 28 DS1s can be used in slots 13, 14, 15 or 16 for HSDc, DSM or DSX modules and slots 6, 8, 10 or 11 can not be used for HSDc, DSM or DSX modules
7. If 8 DS3s are needed a dual DS3 should be placed in slot 9 and dual DS3 should be placed in slot 17. No slots can be used for HSDc, DSM or DSX modules (See Figure above).

## **Attachment B**

### **Fan Replacement in the AB6218**

If one of the three fans should fail, the front panel green FAN LED will go OUT and an alarm message will be displayed on the NMS. The fan panel should be replaced as soon as possible. While the remaining fans can provide sufficient cooling under most conditions, if a second fan should fail, the heat buildup may severely damage the electronics inside the shelf.

The fan panel is accessed from the front of the shelf. To replace a fan panel, proceed as follows:

1. Undo the four captive panel fasteners at the corners of the fan panel (lower front panel) and open the panel. Fasteners turn 1/4-turn counter-clockwise to undo.
2. Disconnect the fan cable harness from the connector on the Fan Status printed circuit board mounted on the left side of the shelf (see *Figure A*) and remove the fan panel.

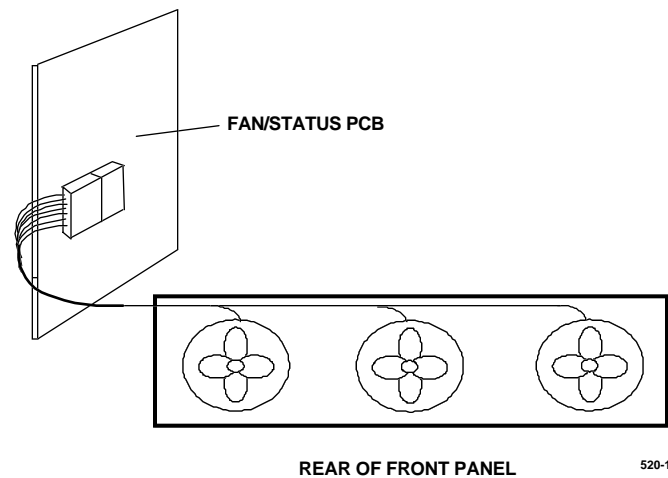


Figure A. Location of the AB6218 Fans and PCB

Fans are not replaced individually. Instead, the fan panel is replaced as one unit. A replacement fan panel (P/N 020-10097-0001) can be obtained by contacting 3Com.

3. Connect fan cable harness on the replacement fan panel to the Fan Status PCB. Route it so it will not get pinched between the fan panel and shelf during assembly.
4. Observe that all three fans are operating.
5. Attach the replacement fan panel to the shelf with the four panel fasteners.

#### Note

The direction of air flow is from the outside front of the shelf to the inside.

## AB6218 Power Supply Replacement

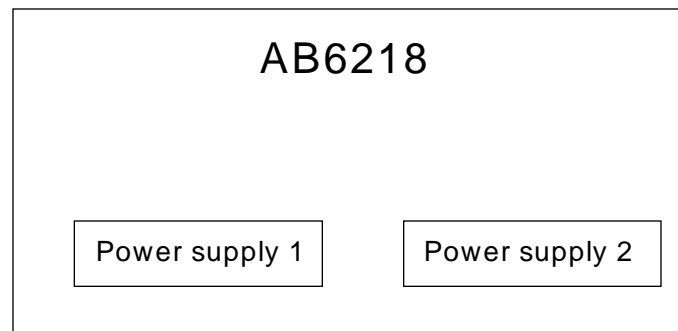
When one of the redundant power supplies fails, the corresponding POWER SUPPLY LED on the front of the AB6218 shelf goes out and an alarm message is displayed on the NMS. If this occurs, the failed power supply should be replaced immediately. The one power supply remaining can normally provide sufficient power for the AB6218 shelf; the second one is needed, however, for redundancy protection.

#### Note

Do not turn off primary power before proceeding or the purpose of having redundant power supplies will be defeated. This procedure can be performed safely with the power left on. However, caution should be used when working with metallic tools around live modules.

To replace a AB6218 power supply, proceed as follows:

1. The power supplies are accessed from the front of the shelf; refer to *Figure B* for the location of the failed power supply, PS1 or PS2. *Make sure the correct one is replaced!*
2. Remove the lower front fan panel.



Front view

**Figure B. Location of AB6218 Power Supplies**

3. Disconnect the 10-pin black connector for the fan/indicator harness and move the fan panel away from the shelf.
4. If AB6218 is -48 DC powered then turn OFF the switch for power supply which is to be swapped out. **Note:** on the rear of the chassis, switch labels are INPUT 1 and INPUT 2 which are for Power Supply 1 and Power Supply 2 respectively.

**NOTE:**

**If node is AC powered then procedure (4.) does not apply !**

5. Disconnect the white, 3-position, MATE 'N' LOK AC connector for the failed power supply by pressing on the side tabs and pulling the connector apart.
6. Disconnect the large blue wiring connector to the failed power supply tray.
7. Unscrew the two large thumbscrews in front of the failed power supply tray and slide the power supply tray straight out.
8. While checking that all cable harnesses are clear, slide the new power supply tray back into place and tighten the thumbscrews. Make sure that the 3 -pin brown connector on the power supply harness is NOT connected.

**CAUTION**

The following two steps must be taken in the order shown. Connecting the AC/DC connector before the DC connector can cause a loss of DC power to the shelf and take the node out of the network.

9. Reconnect the large blue DC connector with even pressure on both corners. **DO NOT ROCK OR ROLL THE TWO CONNECTORS TOGETHER; CONNECT THEM SQUARELY.**
10. Reconnect the 3-pin AC/DC connector.
11. **CONNECT BROWN 3-PIN** connector on harness.
12. Reconnect and re-install the front fan panel.
13. Observe that both front-panel POWER SUPPLY LEDs are on.

## Attachment C

In software revision 2.00.00 circuit build menus have been enhanced to allow a complete circuit build to be done from one menu. The old method used one menu to build the ports part of the circuit and another to connect the network to the port. This has been greatly simplified in this new release. The following outlines these changes.

### *Circuit - Sample Configuration*

```
+-- AccessBuilder 6218-ISM 3Com Corporation < 152.67.251.123 : 255 : 2.00.00 >
--+
| circuits, x) circuit num = 33
|
| 1) name
| 2) circuit          [-] -> [-]
| 3) status           (A) bad slot, (B) bad slot
| 4) activate
| 5) delete
| 6) A slot           -
| 7) A port           1
| 8) A goto port
| 9) B slot           -
| 10) B port          1
| 11) B goto port
|
|     bandwidth       0xDS1 = 0.000Mb
|     time activated  00:00:00 1/0/00
|
|
| ESC) exit screen  t) top
|
| enter:
```

-----  
--+  
This screen allows the user to view and configure several parameters including circuit name, circuit mapping (read-only), status, user slot, user port, type, bandwidth, network port, and activation/deletion of the circuit.

Selecting 1) name allows the user to enter a descriptive name for the circuit.

Selecting 2) circuit displays (read-only) the port/slot mapping for the circuit, and number of DS3 channels assigned (Bandwidth).

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Selecting 3) status displays (read-only) the current status of the circuit.

Selecting 4) activates or deactivates the circuit

Selecting 5) deletes the circuit

Selecting 6) the A slot connection allows the user to define the slot for the A side of the circuit.

Selecting 7) the A port allows the user to define the user port for the A side of the circuit.

Selecting 8) the A goto port allows the user to access port information about the selected port A.

Selecting 9) the B slot connection allows the user to define the slot for the B side of the circuit.

Selecting 10) the B port allows the user to define the port for the B side of the circuit.

Selecting 11) the B goto port allows the user to access port information about the selected port B.

Selections 8 and 11 are used in inverse multiplexing and DS3 to DS3 applications where more than one network port is used.

Depending on whether adding or viewing an existing circuit, further options exist for activation, deactivating, or deleting the circuit.

## ***DSX/DSM Circuit - Sample Configuration***

The DSX Module is used to transmit framed or unframed DSX signals originating from a PBX, T1 DSU/CSU, channel bank, T1 MUX, or similar device. The DSM Module is the same as the DSX except it integrates an T1 DSU/CSU on each port. Both modules support B8ZS or AMI coding and can only be used as a "user" card (vs. trunk). Below is a sample configuration session for setting up a point-to-point DSX and DSM circuit over a DS3C trunk:

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## *DSX Sample*

+ AccessBuilder 6218-ISM 3Com Corporation < 152.67.251.123 : 255 : 2.00.00 >

-+

circuits, x) circuit num = 19

1) name

2) circuit 11.1 -> 5.2 (1)

3) status active

4) deactivate

5) delete

A slot 11

A port 1

6) A goto port

B slot 5

B port 2

B busy channels 1-7 22-28

7) B channels 1

8) B goto port

bandwidth DSX = 1536Kb

9) B add port

ESC) exit screen t) top d) page down

enter:

-+

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## *DSM Sample*

```
+ AccessBuilder 6218-ISM 3Com Corporation < 152.67.251.123 : 255 : 2.00.00 >
-+
| circuits, x) circuit num = 5
|
| 1) name
| 2) circuit          9.1 -> 5.1 (1)
| 3) status           active
| 4) deactivate
| 5) delete
|   A slot            9
|   A port            1
| 6) A goto port
|   B slot            5
|   B port            1
|   B busy channels  1-14
| 7) B channels       1
| 8) B goto port
|   bandwidth        24x64Kb = 1536Kb
| 9) B add port
|
| ESC) exit screen  t) top  d) page down
|
| enter:
```

-----  
-+

## *DSM/DSX Sample*

1. From the main menu select 4) ports (or use #8, goto port) - network and insure a DS3C trunk port is available and is "online".
2. Returning to the main menu, select 6) ports - dsx/dsm and choose a DSX/DSM port to configure.
3. Insure the DSX/DSM port being configured is properly defined. In the DSX case set the port state to IS, the local loopback should be disabled, line code is set, and LBO is set to their proper states. In the DSM case insure that the proper line encoding and port speeds are set.
4. From the main menu select option 3) (t-> 3) circuits to build a circuit from the selected user slot/port to a DS3C slot/port/channel.
5. Enter "a" add to add a circuit. Here, give a descriptive name for the circuit, define a user slot and port (must be a DSX/DSM module in this case).
6. Select 6 and 7) to map the selected DSX slot/port input to a network DS3C slot/port/channel. Select 9 and 10 for the desired trunk port while ensuring the trunk is online and available.

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Next select the number of channels required (1 channel = 1.536 MHz) to transport the DSX signal to the network or remote node. Only 1 channel is allowed for a DSX. In this case select "11" or the first DS3C channel available. Note that you are defining on the network side the channels #s (DS3C) which are being used to transport the user payload. As you add additional DSX or HSD circuits, you will need to add DS3C channels. For example, if you were placing a second DSX port in service you would select another channel number in the DS3C port configuration menu, meaning you would be using 2 x 1.536 MHz of the available bandwidth on the DS3C link.

7. To view your current configuration, return to the main circuits menu (t-> 3). You will see a mapping of the circuits, corresponding DS3C channel numbers, status, and the type of user payload.
8. To activate the circuit select 4).

## ***T3 add/drop Sample***

```
+-- AccessBuilder 6218-ISM 3Com Corporation < 152.67.251.126 : 255 : 2.00.00 >
--+
| circuits, x) circuit num = 4
|
| 1) name          T3 add/drop circuit 5.1 to 5.2
| 2) circuit       5.1 (1-10) -> 5.2 (11-20)
| 3) status        inactive
| 4) activate
| 5) delete
| 6) A slot        5
| 7) A port        1
|   A busy channels
| 8) A channels    1-10
| 9) A goto port
| 10) B slot       5
| 11) B port       2
|   B busy channels
| 12) B channels   11-20
| 13) B goto port
|
| ESC) exit screen  t) top  d) page down
|
| enter:
+-----+
--+
```

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1. From the main menu select 4) (t -> 4) ports - network and insure both DS3C trunk port are available and is "online"
2. Select 6, 7, and 8) to select the A side T3 slot/port/ and channels to be used.
3. Select 10, 11, and 12) to select the B side T3 slot/port/ and channels to be used.
4. To activate the circuit select 4).

## ***HSDC Circuits - Sample Configuration***

```
+-- AccessBuilder 6218-ISM 3Com Corporation < 152.67.251.123 : 255 : 2.00.00 >
--+
```

```
circuits, x) circuit num = 1

1) name
2) circuit          12.1 -> 7.1 (1-7)
3) status           active
4) deactivate
5) delete
   A slot           12
   A port            1
6) A goto port
   B slot            7
   B port            1
   B busy channels  1-14
7) B channels       1-7
8) B goto port
   bandwidth        7xHSD64 = 10.304Mb
9) B add port

ESC) exit screen  t) top  d) page down

enter:
```

```
+-----+
--+
```

1. From the main menu select 4) (t -> 4) ports - network and insure a DS3C trunk port is available and is "online"
2. Returning to the main menu, select 7) (t -> 5) ports - hsd and choose an HSD port to configure.
3. Insure the HSD port being configured is properly defined. In this case ensure the port state is, set the DSX channel mode, select 8) as desired (64k or 56k), set clock as desired, select 10) (internal or loop), and insure the loopbacks are disabled, select 3-5.

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4. From the main menu select option 3) (t-> 3) circuits to build a circuit from the selected user slot/port to a DS3C slot/port/channel.
5. Enter 9) add to establish a circuit. Here give a descriptive name to the circuit, define a (A) user slot and port (must be a HSD module in this case).
6. Select option 7) to map the selected HSD input to a network DS3C slot/port/channel(s). Select the desired trunk port making sure the trunk is online and available. Next, select option 7) the number of channels required (1 channel = 1.536 MHz) to transport the HSD signal to the network or remote node. For example, in order to transport Ethernet (using an Ethernet CIM) at line rate, the user would need to utilize 7 channels (7 x 1.472 = 10.304 MHz). Select the number of channels required by using the syntax "channel - (channel)" example. In the previous example, we set up a DSX circuit utilizing channel #1, in this case we could use the syntax "2-8" the select channels, 2,3,4,5,6,7,8 on the DS3C trunk selected. In this example we have utilized 10.304 MHz of the available DS3C bandwidth.
7. To activate the circuit select 4).

## Note

The channels selected must match the channels on the far end AccessBuilder 6200 (or LX10) to complete the circuits.

1. To view your current configuration, return to the main circuits menu. You will see a mapping of the circuits, corresponding DS3C channel numbers, status, and the type of user payload.
2. To complete the end-to-end configuration, repeat this process at the far-end AccessBuilder using insuring that the proper DS3C channel/ports are mapped to the desired user slot/ports. Test connectivity.

## Attachment D

### AB6200 database downloading procedure

Downloading the configuration database is very simple and uses FTP utility to accomplish this task. The following is a step by step download procedure. All *italic* characters are entered by the operator and non-italic characters are responses from the AB6200

1. FTP to the desired unit. In this case the IP address is 198.93.66.170

```
C:\>ftp 198.93.66.170
```

```
Connected to 198.93.66.170.
```

```
220 AccessBuilder FTP Server Ready
```

2. Now the PC and the AB6200 are connected and ready for the user name to be entered. The user name for the AB6200 is "*ab6200*". If the username is incorrectly entered then type "*user*" and you will be prompted for a user name again.

```
User (198.93.66.170:(none)): ab6200
```

3. The AB6200 has accepted the user name and is ready for the Password to be enter. The default password is "*password*". If the password is incorrectly entered the procedure must be restarted from step 2

```
331 Password is required.
```

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Password: *password*

231 User logged in (RW)

4. The AB6200 must now be configured to transfer files in binary mode. This is accomplished by entering "*bin*"

```
ftp> bin
```

200 PORT command successful.

5. The configuration can now be downloaded from the AB6200. Use the command "*get*" and the filename is *oid\_db*"

```
ftp> get oid_db
```

200 PORT command successful.

150 sending file ...

226 Transfer complete.

8 bytes received in 0.00 seconds (8000.00 Kbytes/sec)

6. You have now successfully downloaded the AB6200 configuration and it has been saved as "*oid\_db*". Next you must disconnect the FTP session and this is accomplished by entering "*quit*"

```
ftp> quit
```

221 Goodbye.

This completes the procedure to download the AB6200 database.

## Restoring AB6200 database procedure

Restoring a configuration database in a AB6200 is accomplished by using a FTP utility. The following is a step by step procedure to do this. All italic characters are entered by the operator and non-italic characters are responses from the AB6200

1. FTP to the desired unit. In this case the IP address is 198.93.66.170

```
C:\>ftp 198.93.66.170
```

Connected to 198.93.66.170.

220 AccessBuilder FTP Server Ready

2. Now the PC and the AB6200 are connected and ready for the user name to be entered. The user name for the AB6200 is "*ab6200*". If the username is incorrectly entered then type "*user*" and you will be prompted for a user name again.

```
User (198.93.66.170:(none)): ab6200
```

3. The AB6200 has accepted the user name and is ready for the Password to be enter. The default password is "*password*". If the password is incorrectly entered the procedure must be restarted from step 2.

331 Password is required.

```
Password: password
```

231 User logged in (RW)

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4. The AB6200 must now be configured to transfer files in binary mode. This is accomplished by entering “*bin*”

```
ftp> bin
```

200 PORT command successful.

5. The configuration can now be restored to the AB6200. Use the command “*put*” and the filename is “*oid\_db*”

```
ftp> put oid_db
```

200 PORT command successful.

150 receiving file ...

226 Transfer complete.

8 bytes sent in 0.00 seconds (8000.00 Kbytes/sec)

6. You have now successfully completed and restored the AB6200 configuration. Next you must disconnect the FTP session and this is accomplished by entering “*quit*”

```
ftp> quit
```

221 Goodbye.

This completes the procedure to restore a AB6200 database.

## **AB6200 Firmware downloading procedure from Standby flash**

Downloading the Firmware is very simple and uses FTP utility to accomplish this task. The following is a step by step download procedure. All *italic* characters are entered by the operator and non-italic characters are responses from the AB6200

1. FTP to the desired unit. In this case the IP address is 198.93.66.170

```
C:\>ftp 198.93.66.170
```

Connected to 198.93.66.170.

220 AccessBuilder FTP Server Ready

2. Now the PC and the AB6200 are connected and ready for the user name to be entered. The user name for the AB6200 is “*ab6200*”. If the username is incorrectly entered then type “*user*” and you will be prompted for a user name again.

```
User (198.93.66.170:(none)): ab6200
```

3. The AB6200 has accepted the user name and is ready for the Password to be enter. The default password is “*password*”. If the password is incorrectly entered the procedure must be restarted from step 2

```
331 Password is required.
```

```
Password: password
```

```
231 User logged in (RW)
```

4. The AB6200 must now be configured to transfer files in binary mode. This is accomplished by entering “*bin*”

```
ftp> bin
```

200 PORT command successful.

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---

4.1 You must move to the proper directory to get the Firmware.

```
ftp> cd /flashDev/standby  
257 command successful
```

5. The firmware can now be downloaded from the AB6200. Use the command “*get*” and the filename is

```
“image”  
ftp> get image  
200 PORT command successful.  
150 sending file ...  
226 Transfer complete.  
local: image remote: image  
1443444 bytes received in 3.62 seconds (398.74 Kbytes/sec)
```

6. You have now successfully downloaded the AB6200 Firmware and it has been saved as “*image*”. Next you must disconnect the FTP session and this is accomplished by entering “*quit*”

```
ftp> quit  
221 Goodbye.
```

This completes the procedure to download the AB6200 Firmware.

## Restoring AB6200 Firmware to Standby flash

Restoring the Firmware in a AB6200 is accomplished by using a FTP utility. The following is a step by step procedure to do this. All italic characters are entered by the operator and non-italic characters are responses from the AB6200

1. FTP to the desired unit. In this case the IP address is 198.93.66.170. The directory you FTP from must contain the file “*image*” which is your desired firmware.

```
C:\>ftp 198.93.66.170  
Connected to 198.93.66.170.  
220 AccessBuilder FTP Server Ready
```

2. Now the PC and the AB6200 are connected and ready for the user name to be entered. The user name for the AB6200 is “*ab6200*”. If the username is incorrectly entered then type “*user*” and you will be prompted for a user name again.

```
User (198.93.66.170:(none)): ab6200
```

3. The AB6200 has accepted the user name and is ready for the Password to be enter. The default password is “*password*”. If the password is incorrectly entered the procedure must be restarted from step 2.

```
331 Password is required.  
Password: password  
231 User logged in (RW)
```

# 3Com Corporation

---

4. The AB6200 must now be configured to transfer files in binary mode. This is accomplished by entering “*bin*”

```
ftp> bin
```

200 PORT command successful.

4.1 You must move to the proper directory to put the Firmware.

```
ftp> cd /flashDev/standby
```

257 command successful

5. The Firmware can now be put into the AB6200. Use the command “*put*” and the filename is “*image*”

```
ftp> put image
```

200 PORT command successful.

150 receiving file ...

226 Transfer complete.

1443444 bytes sent in 3.62 seconds (398.74 Kbytes/sec)

6. You have now successfully put Firmware into the backup flash on the AB6200. Next you must disconnect the FTP session and this is accomplished by entering “*quit*”

```
ftp> quit
```

221 Goodbye.

This completes the procedure to restore a AB6200 Firmware to the standby flash. If you want to run on this flash, Telnet to the AB6200 and switch to standby flash.