Data Collection System (DCS) 3000

User Guide

Chapter 6

Software Version Numbers: MultiServer V 1.5J

Using the DCS MultiServer

The MultiServer performs many functions during electronic surveillance operations. Step-by-step procedures of the MultiServer are presented in the following sections:
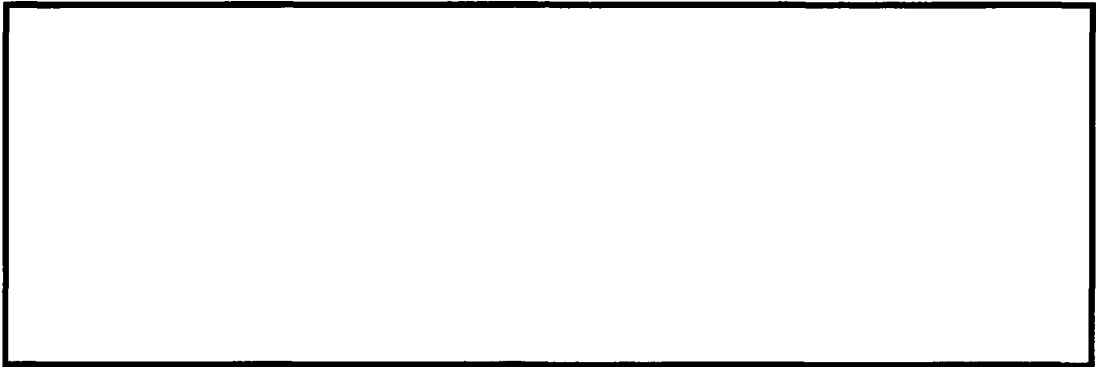
- Working in the MultiServer Window
- Setting up a Switch
- Monitoring Activity
- Storing Target Data Files
- Shutting Down the MultiServer
- Quick Steps

Once connected, the MultiServer receives all information on a target generated by the switch.
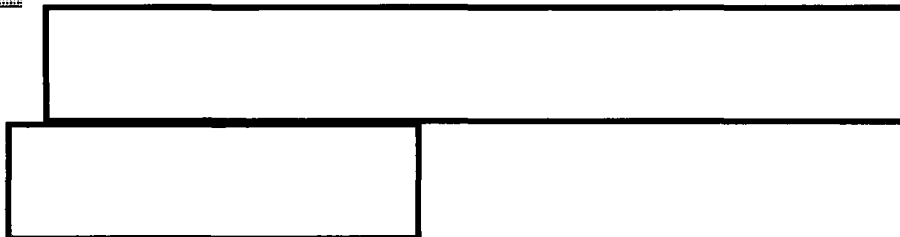
b2
b7E

Working in the MultiServer Window

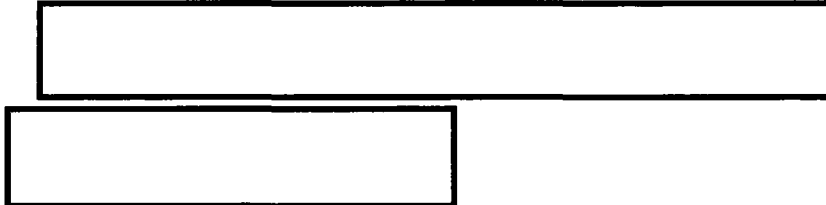**To clear detail messages from the MultiServer window:**
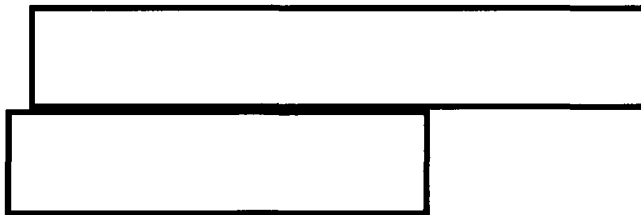
b2
b7E

To cut a text selection:
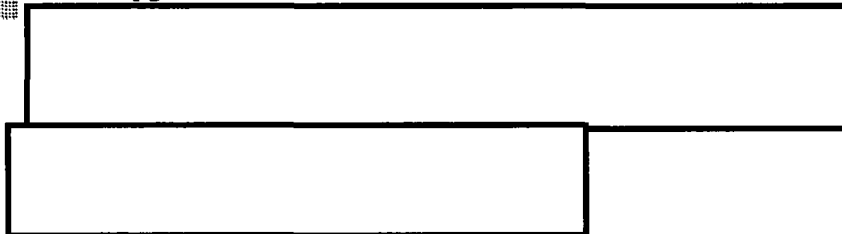
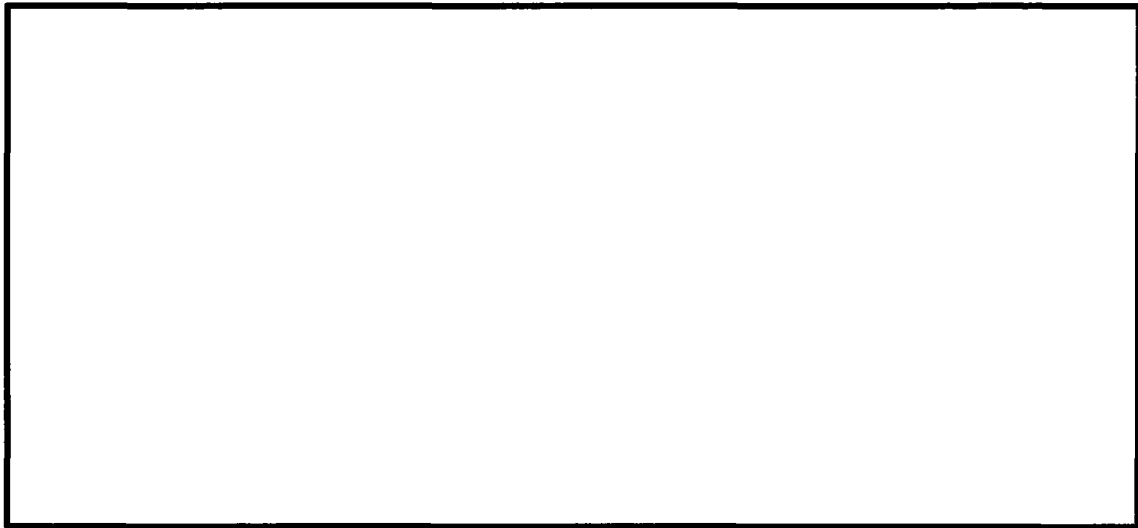**To copy a text selection:**

b2
b7E

To cut all text:

b2
b7E

To copy all text:
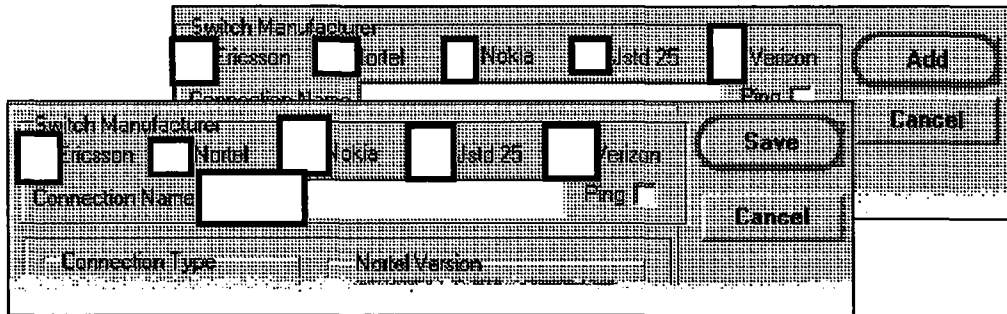
Setting up a Switch

b2
b7E

Figure 6-1: DCS MultiServer Configuration Window – Add and Edit Buttons Displayed

The steps for manually connecting the MultiServer are presented as follows:

- Adding a connection
- Editing a connection
- Deleting a connection
- Establishing a connection
- Configuring a connection

b2
b7E

To Add a Connection

To set up a connection in the MultiServer:

Password

Enter Configuration Password

| Ok | Cancel |

b2
b7E

Name	Switch	Con...	Version	IP Ad...	Rem...	Lo...	Com...

Add   Edit   Delete   Connect   Disconnect

b2
b7E

b2
b7E

🐢 **Note:**

Attention   ✕

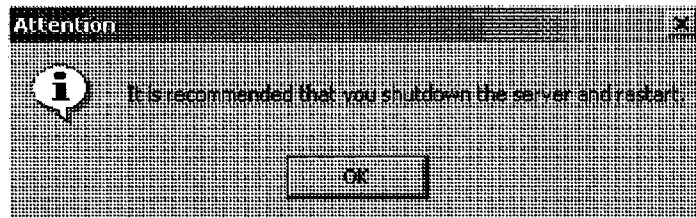ⓘ   It is recommended that you shutdown the server and restart.

OK

b2
b7E

Note:

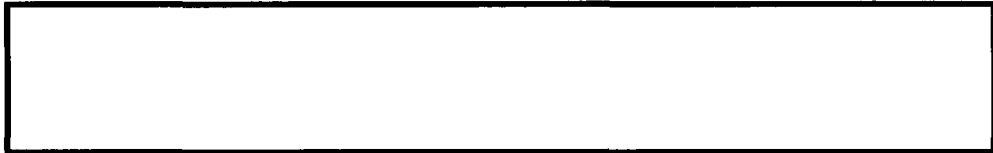## To Edit a Connection

b2
b7E

To modify an existing connection:

Password

Enter Configuration Password

[Ok]   [Cancel]

b2
b7E

Attention

(?) Are you sure you wish to Disconnect from all switches?

[Yes]   [No]

b2
b7E

Name	Switch	Con...	Version	IPAd...	Rem...	Ln...	Conn...

Add   Edit   Delete   Connect   Disconnect

b2
b7E

b2
b7E

Note:

Attention

ⓘ It is recommended that you shutdown the server and restart.

OK
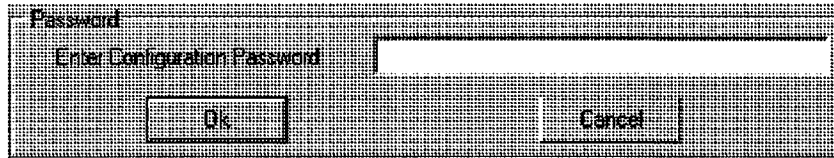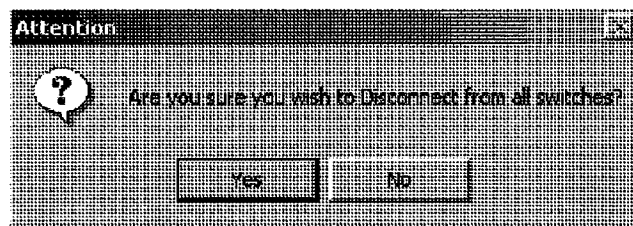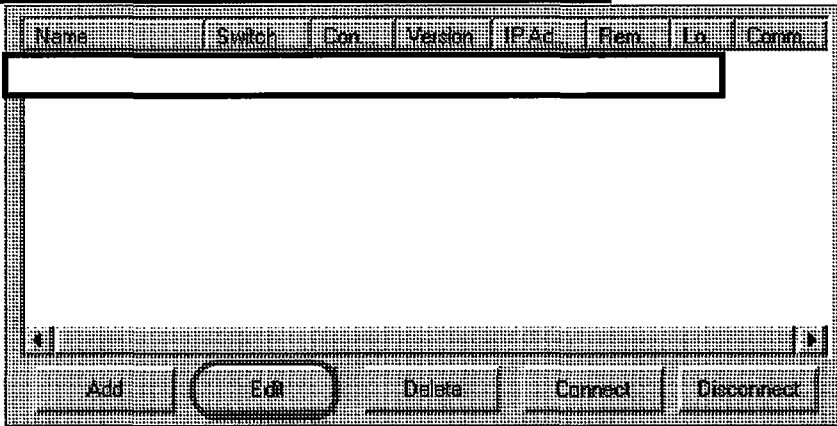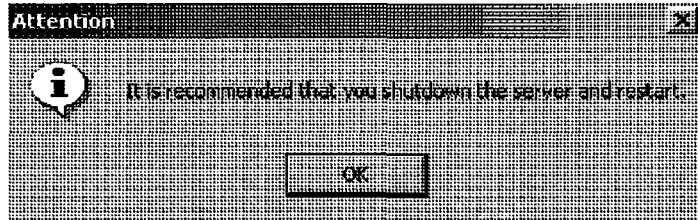
Note:

To Delete a Connection

b2
b7E

To delete a connection:

Password
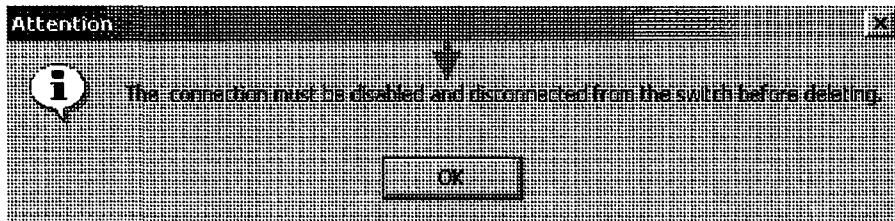
Enter Configuration Password

OK   Cancel

b2
b7E

b2
b7E

Attention

? Are you sure you wish to Disconnect from all switches?

[Yes]   [No]

b2
b7E

🔖 **Note:**

Attention

ⓘ The connection must be disabled and disconnected from the switch before deleting.

[OK]

Attention

? Are you sure you wish to delete the [   ] connection?

[Yes]   [No]

b2
b7E
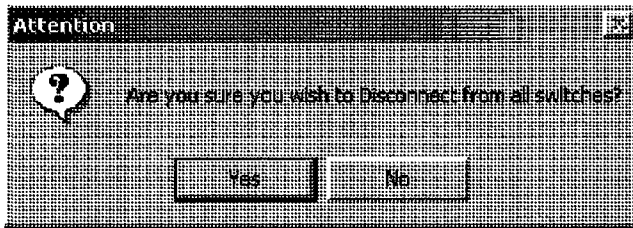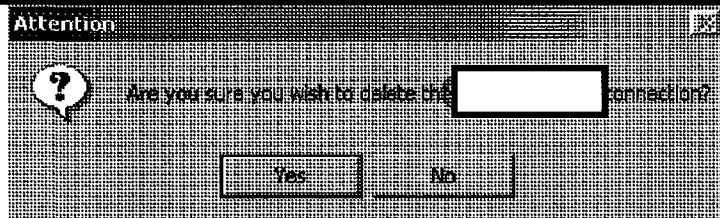
Note:

To Establish a Connection

b2
b7E

To request a connection to a switch:

b2
b7E
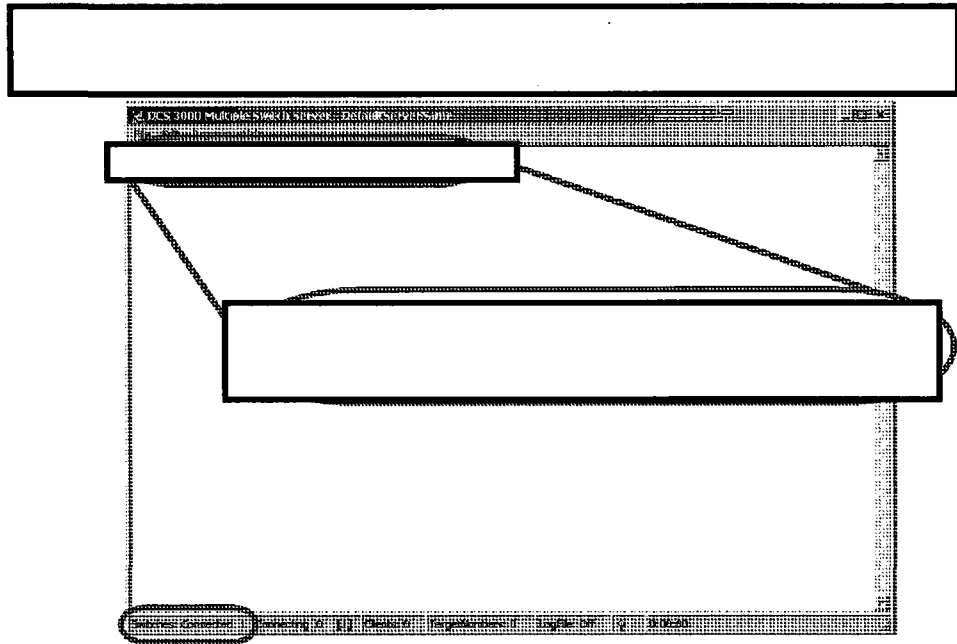
- OR -

Password

Enter Configuration Password
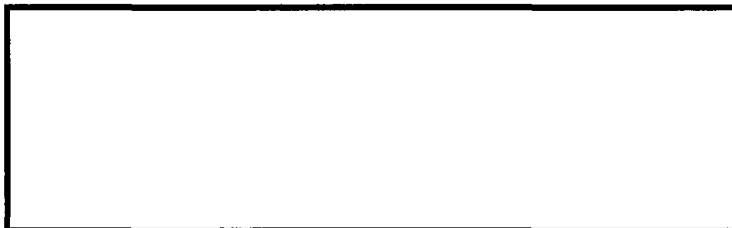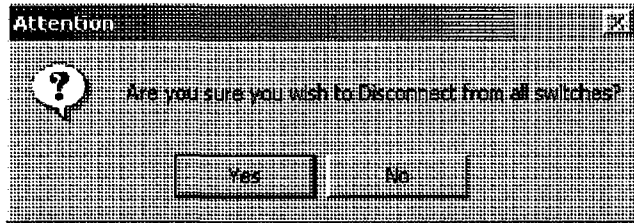
Ok   Cancel

b2
b7E
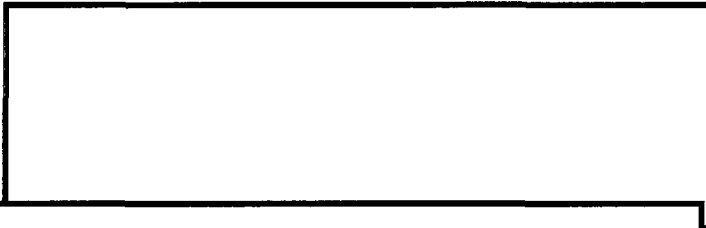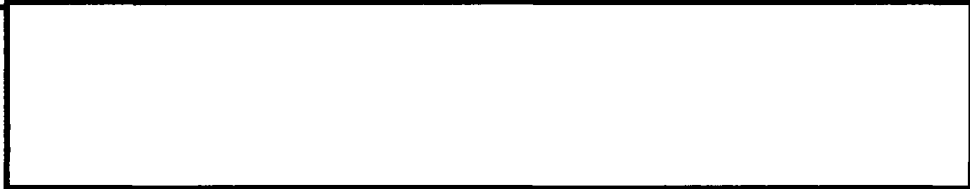
🔍 Note:

To disconnect all switches:

Password

Enter Configuration Password

Ok   Cancel

b2
b7E

Attention

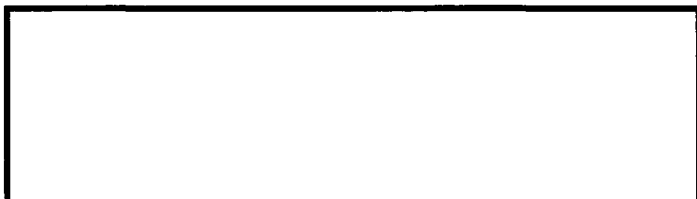(?) Are you sure you wish to Disconnect from all switches?

Yes   No

b2
b7E

Note:

To disconnect one switch:

b2
b7E

Password

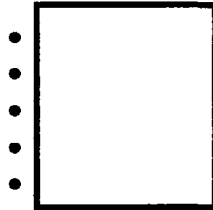Enter Configuration Password

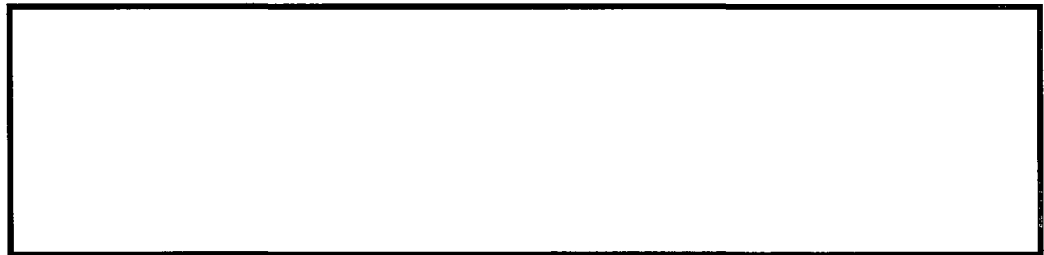Ok   Cancel

b2
b7E
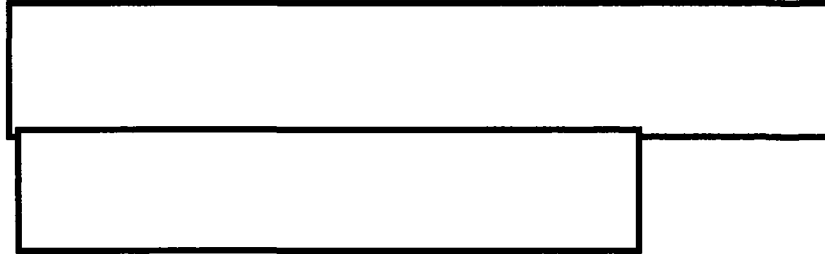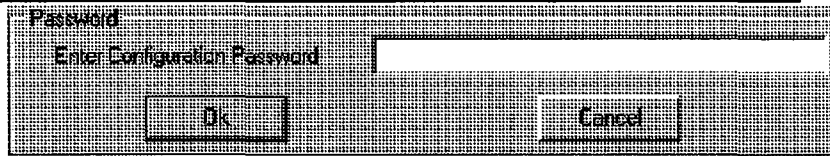
⊗ **Note:**

To Configure a Connection

b2
b7E

The switches supported by the MultiServer are presented as follows:

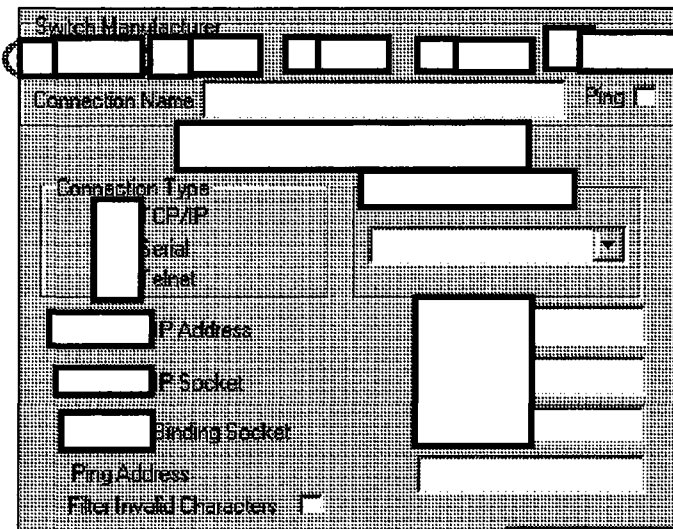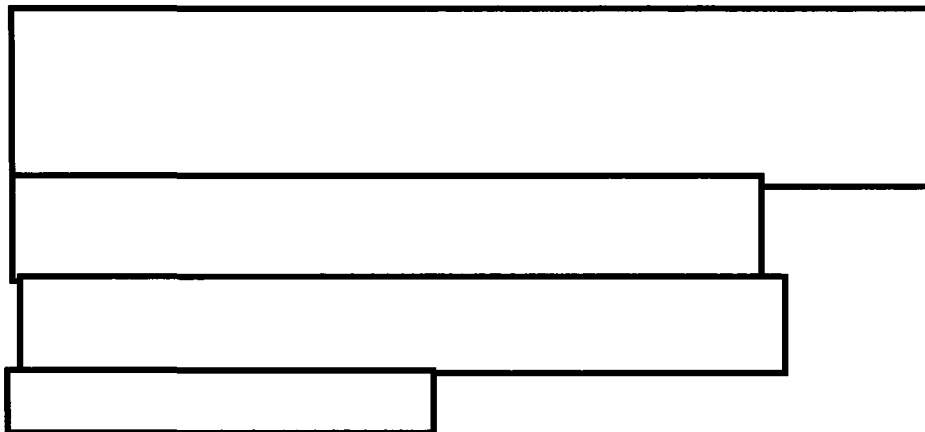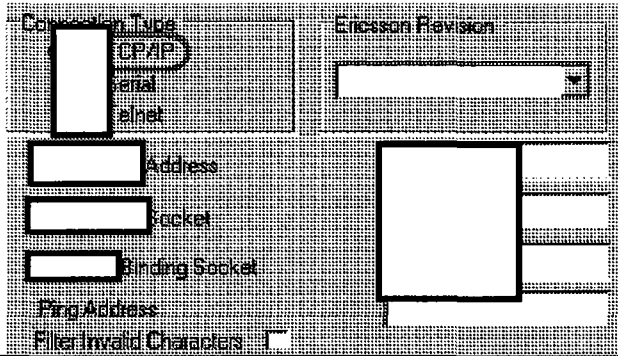- •
- •
- •
- •
- •

b2
b7E

b2
b7E

b2
b7E

Figure 6-2: DCS MultiServer Configuration Window

To configure the MultiServer for [   ] with a TCP/IP connection:
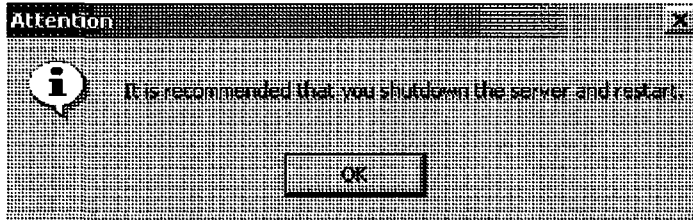
b2
b7E

b2
b7E

Connection Type
CP/IP
Serial
Other

Ericsson Revision

Address

Socket

Binding Socket

Ping Address

Filter Invalid Characters

b2
b7E

b2
b7E

Note:

Attention   ✕

ⓘ   It is recommended that you shutdown the server and restart.

OK

b2
b7E

Note:

To configure the MultiServer for [ ] **with a Serial connection:**

b2
b7E

b2
b7E

Connection Type
TCP/IP
Serial
Telnet

Ericsson Revision

Number To Dial

Password

Wait to Connect for   Seconds   Modem

b2
b7E
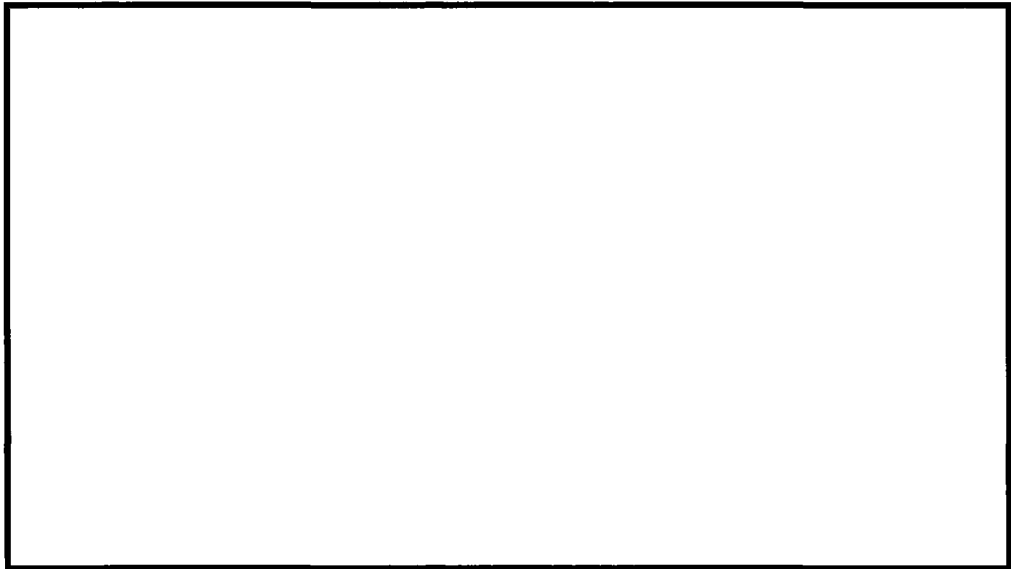
Ericsson Modem Settings   X

Connect Using   Ok

Baud Rate   Done

Parity   Direct Connect

Data Bits   Hw Flow Control

Stop Bits

b2
b7E

Note:

Attention   ×

(i)   It is recommended that you shutdown the server and restart.

OK

b2
b7E

Note:

To configure the MultiServer for [   ] with a Telnet connection:

b2
b7E

Connection Type
TCP/IP
Serial
Telnet ✓ Log   Revision

Telnet IP Address   Telnet Ping Address

Telnet User Name   Telnet Password

Telnet Socket   Telnet Command Line   ☐ Terminal Server

b2
b7E

b2
b7E

b2
b7E

🐚 **Note:**

Attention   ✗

ⓘ   It is recommended that you shutdown the server and restart.

[OK]

b2
b7E

> 🖎 **Note:**

b2
b7E

Switch Manufacturer:
Ericsson Nortel Nokia Jstd 25 Verizon

Connection Name: Ping

Connection Type
TCP/IP

Override "Called Number"

TCP Address
TCP Port Number
Binding Port
Ping Address

Specialized Connections
Daily
Client Request

Figure 6-3: DCS MultiServer Configuration Window -

To configure the MultiServer for [   ] with a TCP/IP connection:

b2
b7E

Connection Type

TCP/IP

serial port

Override "Called Number"

TCP Address:

TCP Port Number:

Binding Port:

Ping Address:

Specialized Connections

Daily

Client Request

b2
b7E

b2
b7E

Specialized Connection
Daily

Client Request:

Connect Time

Disconnect

🐝 **Note:**

b2
b7E

🐝 **Note:**

Attention   ⓧ

ⓘ   It is recommended that you shutdown the server and restart.

[OK]

b2
b7E

Note:

To configure the MultiServer for [   ] **with a Serial connection:**

b2
b7E

b2
b7E

Connection Type

Serial   Serial Port

Number To Dial

Password

Wait to Connect for   Seconds

b2
b7E

DMS MTX Serial Port Settings

Connect Using	Ok
Baud Rate	Done
Parity	☐ Direct Connect
Data Bits	☐ HW Flow Control
Stop Bits	

b2
b7E

⚠ **Note:**

b2
b7E

b2
b7E

Attention

(i) It is recommended that you shutdown the server and restart.

OK

➤ **Note:**

b2
b7E

b2
b7E

Figure 6-4: DCS MultiServer Configuration Window

To configure the MultiServer for _____ with a Serial connection:

b2
b7E

b2
b7E

Connection Type

Serial
Telnet

C Tone Enabled

Number To Dial

Password

Wait to Connect for [ ] Seconds

Modem

b2
b7E

b2
b7E

Connect Using
Baud Rate
Parity
Data Bits
Stop Bits

Ok
Done

Direct Connect
Hw Flow Control

⚠ **Note:**

b2
b7E

Note:

Attention

It is recommended that you shutdown the server and restart.

OK

b2
b7E

Note:

To configure the MultiServer for [   ] with a Telnet connection:

b2
b7E

b2
b7E

Connection Type

Serial
Telnet   ☑ Log   ☐ C Tone Enabled

Telnet IP Address   Telnet Ping Address

Telnet User Name   Telnet Password

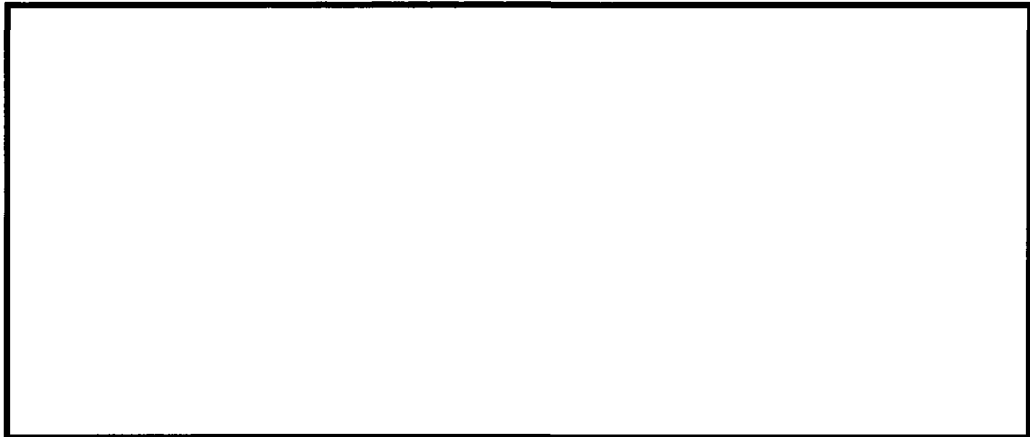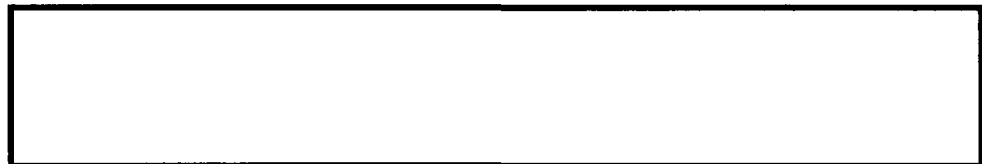Telnet Socket   Telnet Command Line   ☐ Terminal Server

b2
b7E

b2
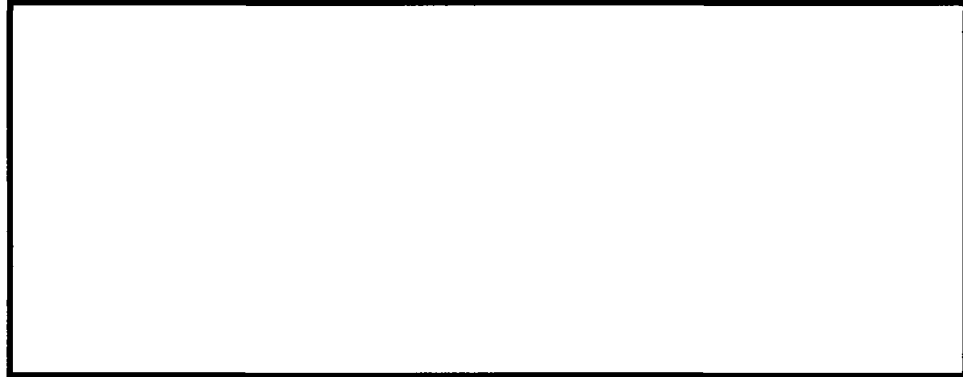b7E

Note:

Attention ☒

ⓘ It is recommended that you shutdown the server and restart.

OK

b2
b7E
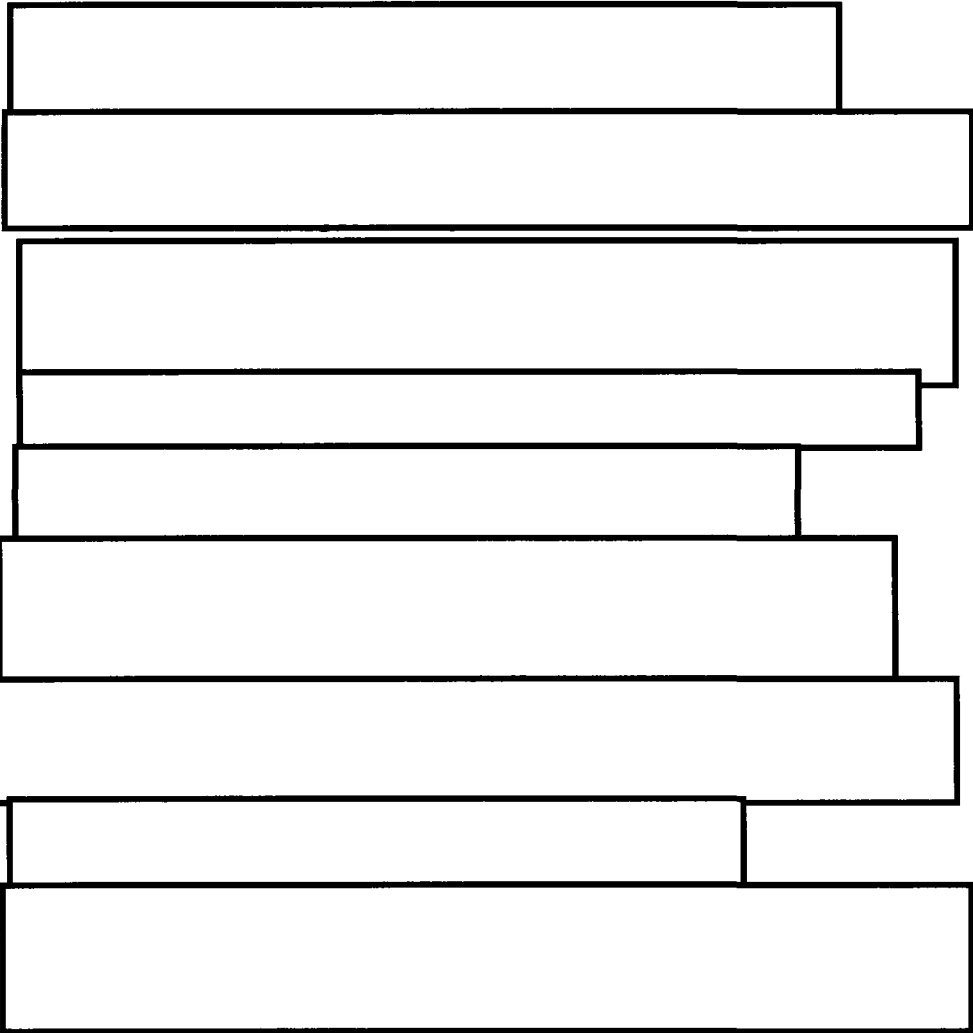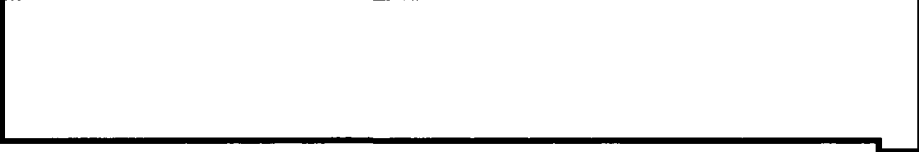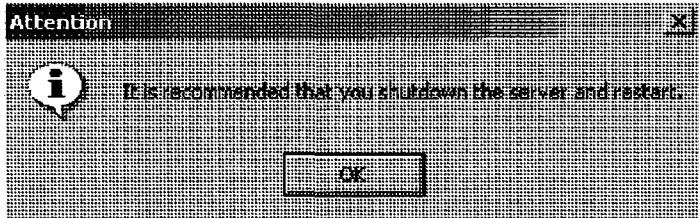
Note:

J-STD-025 Settings

b2
b7E

Switch Manufacturer

Connection Name   Find

Connection Type
    TCP/IP
    Serial   Serial Port   Override "Called" Number
                                         ASCII SMS

TCP Address
TCP Port Number   VeriGuard or Atlas
Binding Port   Keep Alive
                                         Special Connection
Ping Address

Figure 6-5: DCS MultiServer Configuration Window - J-STD-025 Settings

To configure the MultiServer for J-STD-025 25 Standard switch with a TCP/IP connection:

b2
b7E

b2
b7E

Connection Type

TCP/IP
Serial
GPS ?   Serial Port

TCP Address

TCP Port Number

Binding Port

Ping Address

Jstd 25 Version

☐ Override Called Number
☐ ASCII SMS

VAN Guard or Atlas
Keep Alive
Special Connection

b2
b7E

b2
b7E

Keep Connection Alive

Hours between sends:

Reset Connection

Seconds to wait for response:

OK   Cancel

Specialized Connections

Daily
Time Period
Client Request

Connect Time

Disconnect

OK   Cancel

b2
b7E

Note:

Attention

It is recommended that you shutdown the server and restart.

OK

Note:

b2
b7E

Note:

To configure the MultiServer for J-STD-025 switch with a Serial connection:

b2
b7E

b2
b7E

b2
b7E

Connection Type   X.25 Version

TCP/IP
Serial   Serial Port   Override "Called Number"
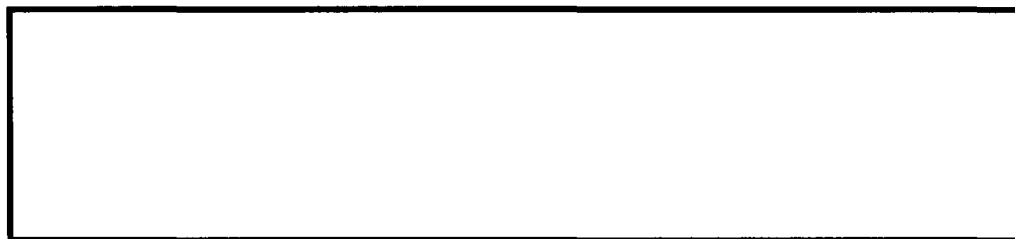(F.3)   ASCII SMS

Number To Dial   [   ]   Verbose Diagnostics
Password   [   ]   Keep Alive
Wait to Connect for [   ] Seconds   Special Diagnostics

b2
b7E

Nortel GSM 09

Connect Using

Baud Rate

Parity

Data Bits

Stop Bits

Ok

Done

Direct Connect

H/W Flow Control

🐝 **Note:**

b2
b7E

Attention ✕

ⓘ   It is recommended that you shutdown the server and restart.

OK
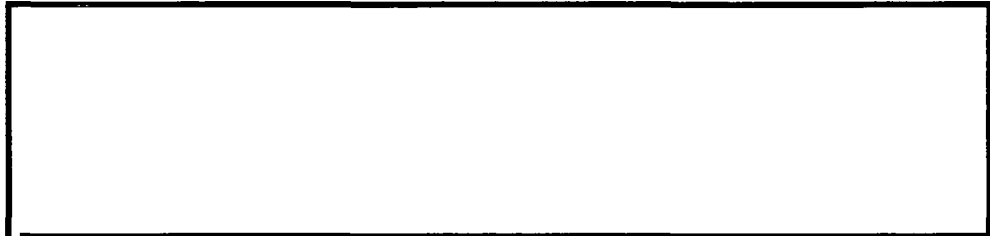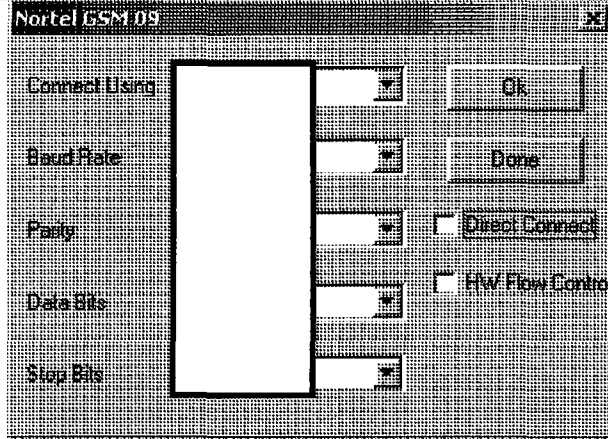
✎ **Note:**

b2
b7E

✎ **Note:**

b2
b7E

To configure the MultiServer for J-STD-025 switch with a GR30 connection:

b2
b7E

b2
b7E

b2
b7E

✍ **Note:**

b2
b7E

LAESP ✕

Connect Using   Ok

Baud Rate   Done

Parity   ☐ Direct Connect

Data Bits   ☐ H/w Flow Control

Stop Bits

b2
b7E

Note:

Attention   ×

(i)   It is recommended that you shutdown the server and restart.

OK
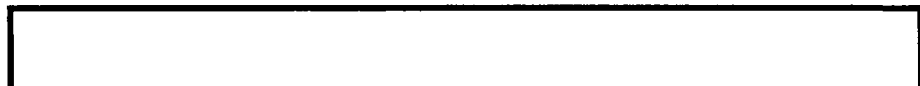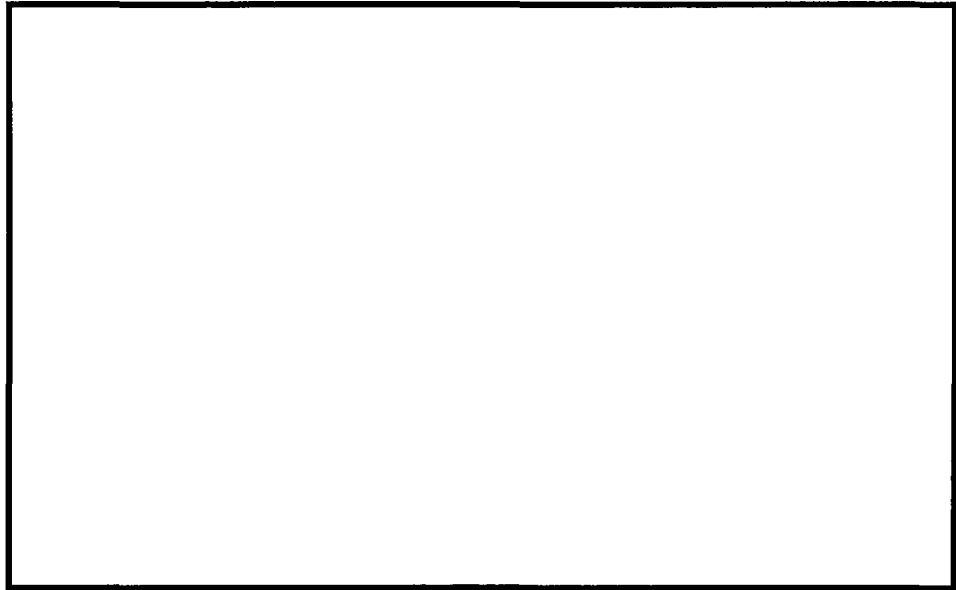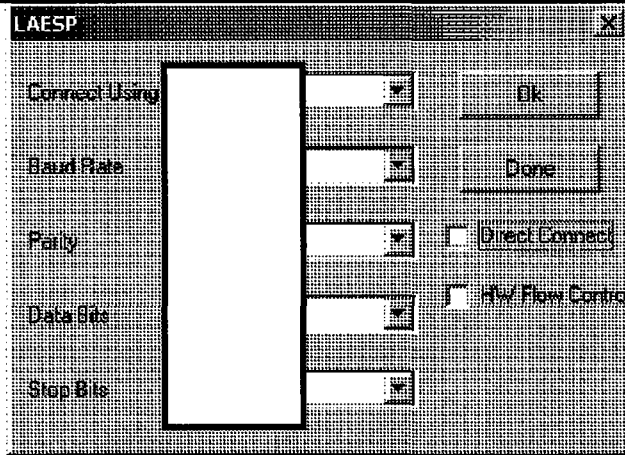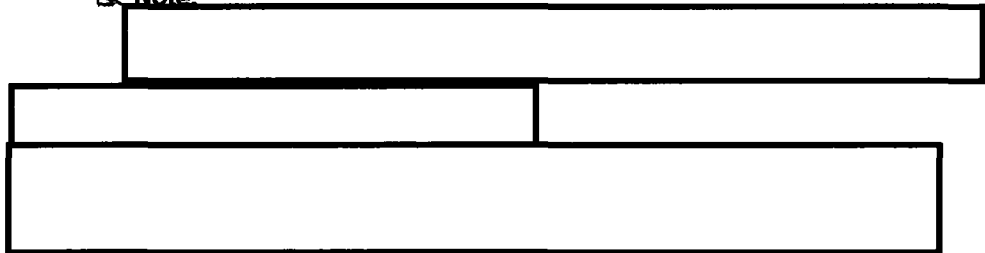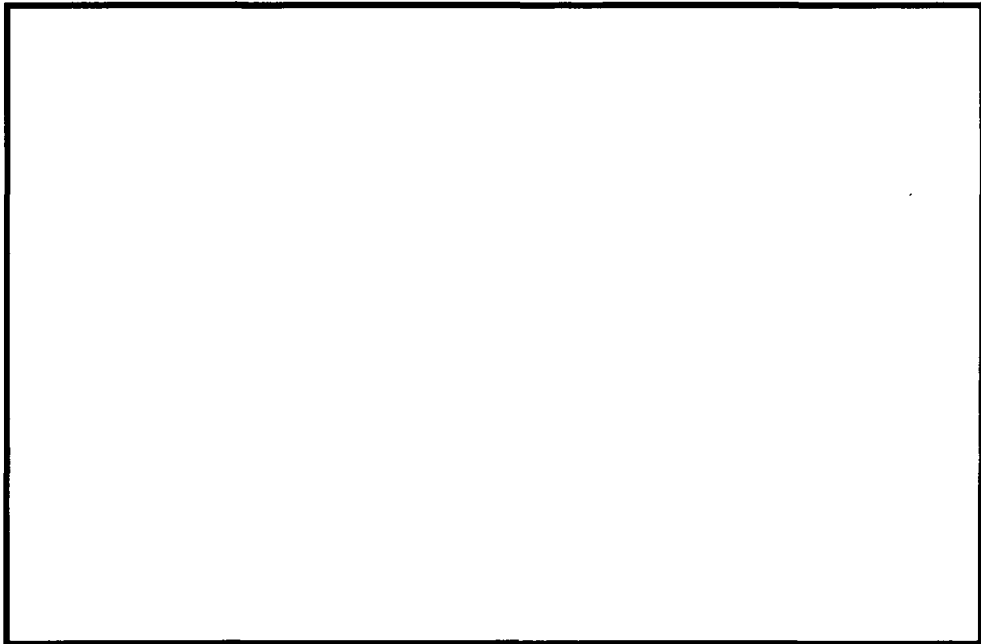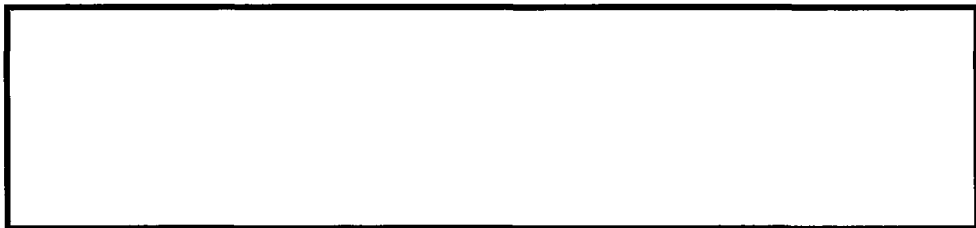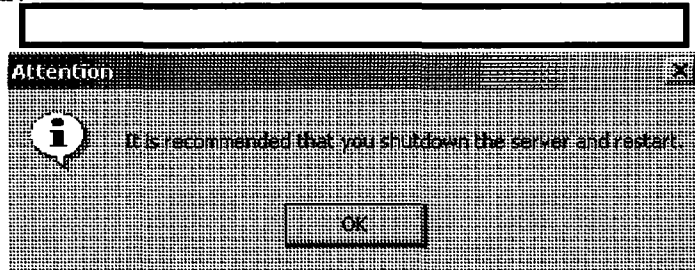
b2
b7E

Note:

b2
b7E

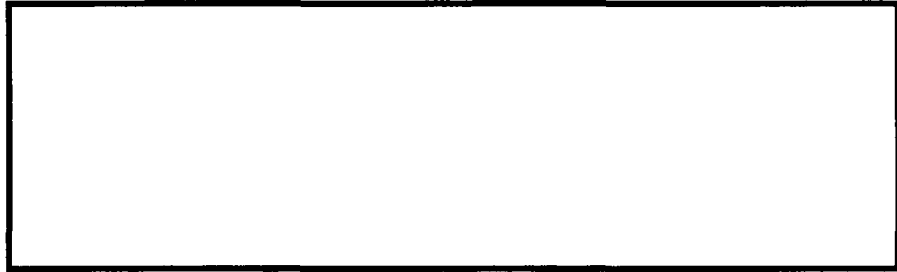**Figure 6-7: DCS MultiServer Configuration Window**

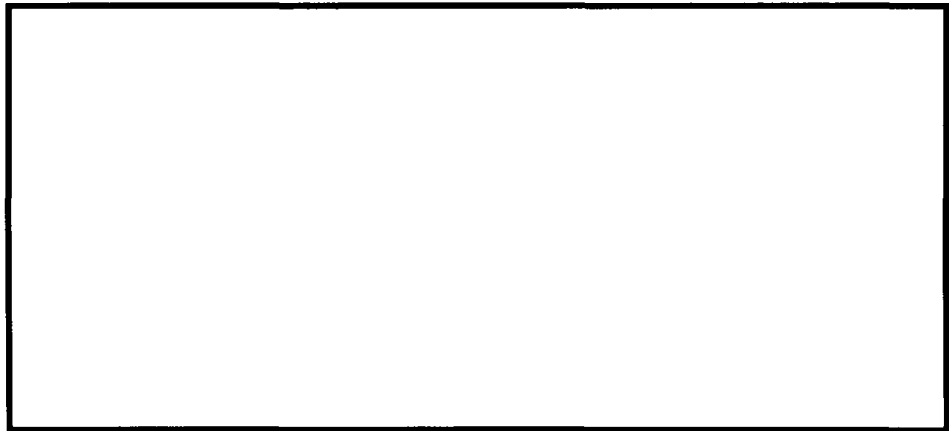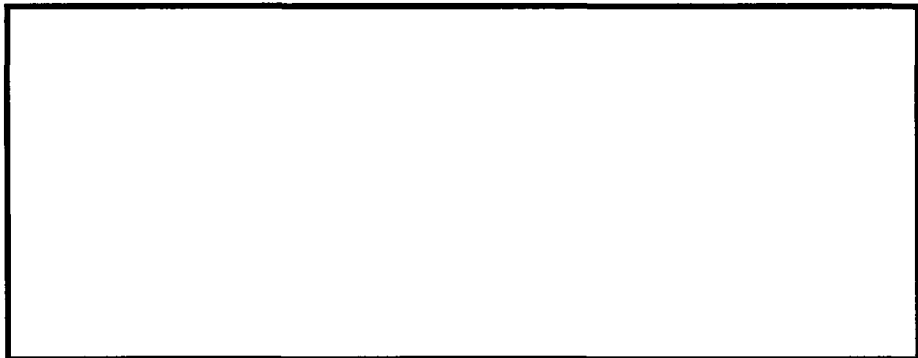To configure the MultiServer for a [   ] with a TCP/IP connection:

b2
b7E

b2
b7E

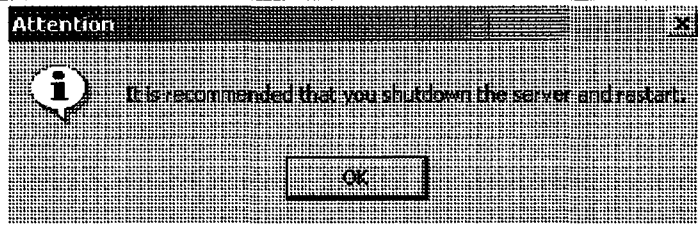TCP/IP

TCP Address

TCP Port Number

Binding Port

Ping Address

b2
b7E

Attention ⊠

(i) It is recommended that you shutdown the server and restart.
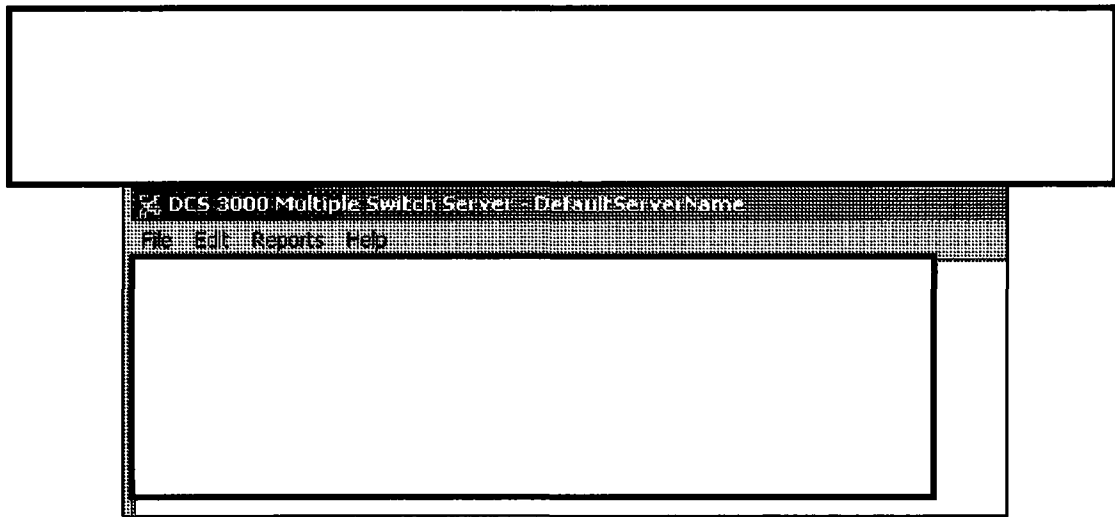
OK
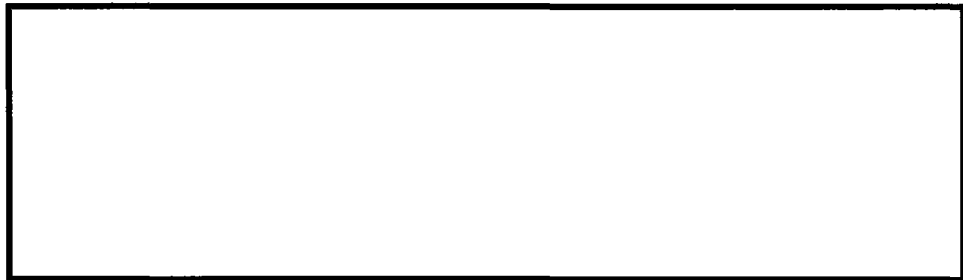
🖎 **Note:**

b2
b7E

🖎 **Note:**

Monitoring Activity

Figure 6-8: MultiServer Window – Messages Tracking Activity
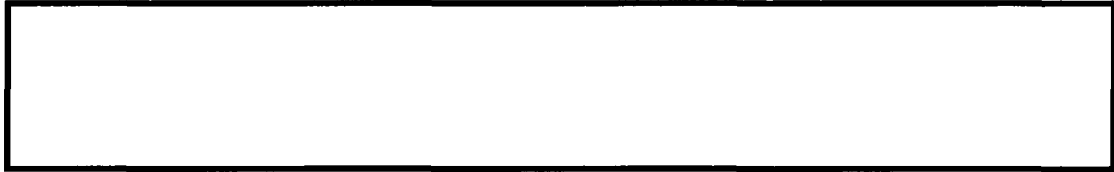
b2
b7E

This table describes some messages that may appear in the MultiServer window.

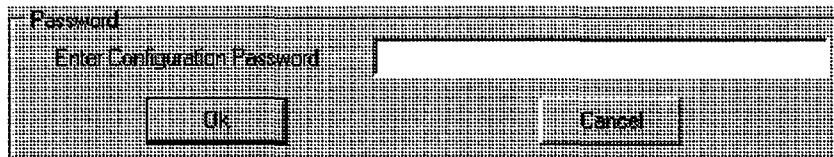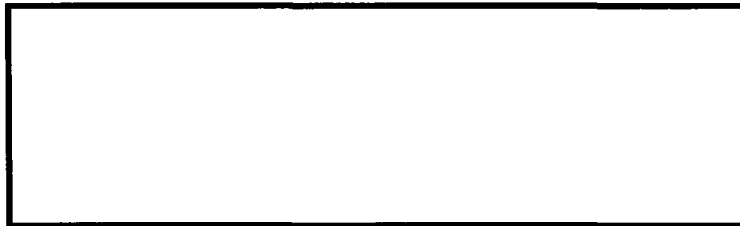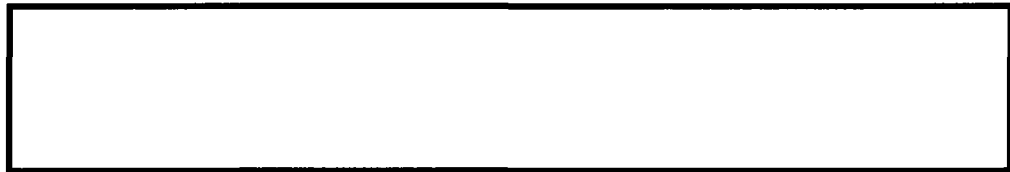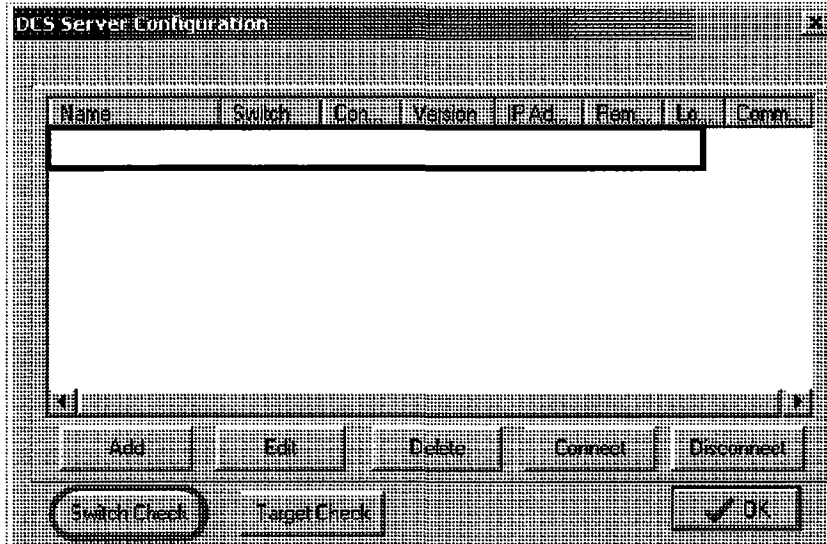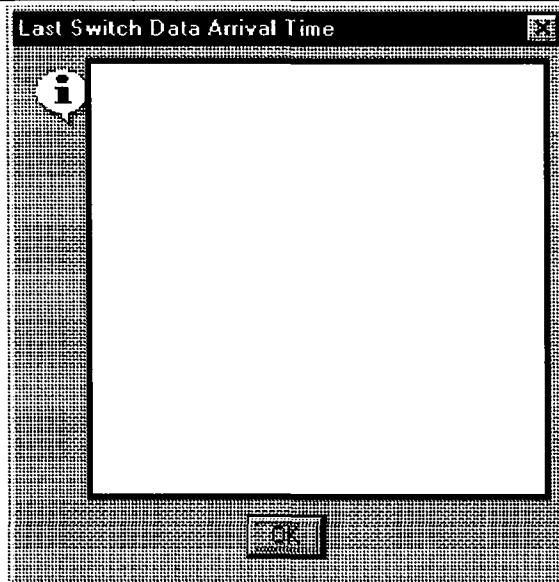| Message	Description
[Client Name] Client Connected	
Switch: Connected: 0 Connecting: 0 [1]	
Switch: Connected: 1 Connecting: 0 [1]	
Switch: Connected: 0 Connecting: 1 [1]	
Sent Message: Nortel GSM ccOpen Message	
[Client Name] Client Disconnected	
[Switch Name] Switch: Disconnected	

b2
b7E

b2
b7E

To verify recent switch activity:

Password

Enter Configuration Password [   ]

[Ok]   [Cancel]

b2
b7E

b2
b7E

DCS Server Configuration

Name	Switch	Con...	Version	PAd...	Ren...	Lo...	Conn...

Add   Edit   Delete   Connect   Disconnect

Switch Check   Target Check   ✓ OK

b2
b7E

Last Switch Data Arrival Time

OK

To track recent target activity:

Password

Enter Configuration Password

OK   Cancel

b2
b7E

DCS Server Configuration   x

Name	Switch	Con...	Version	IP Ad...	Ran...	Lo...	Comm...

Add   Edit   Delete   Connect   Disconnect

Switch Check   Target Check   OK
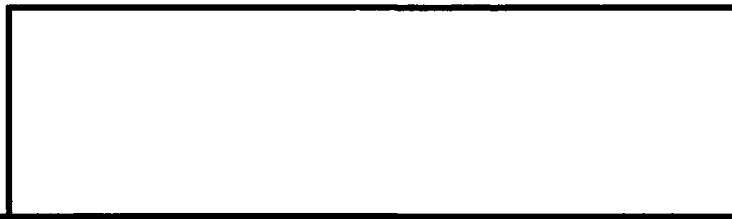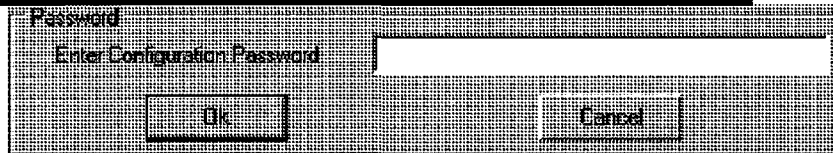
b2
b7E

Target Checks

Access Record

Victim Name

Target Type

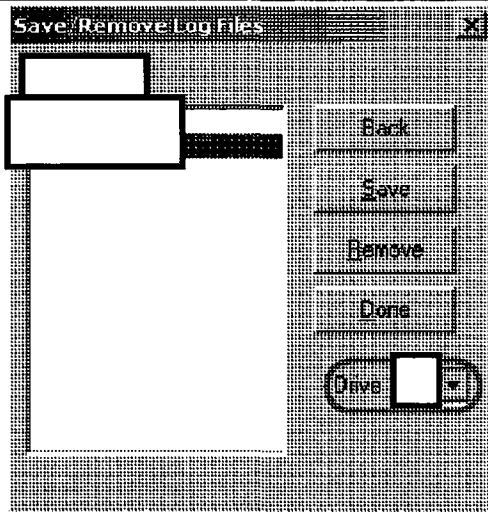✓ OK   Refresh
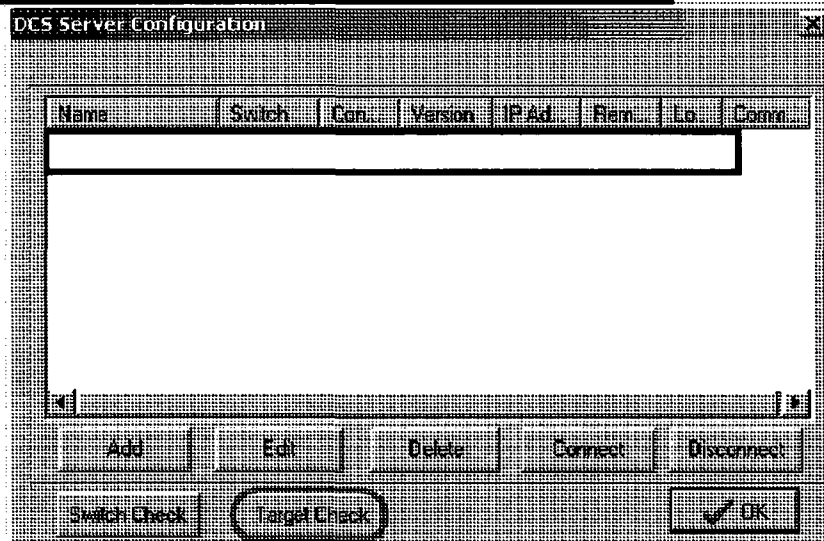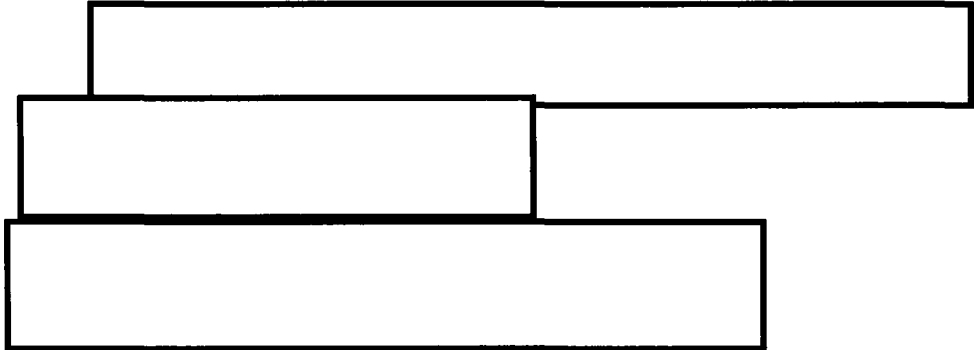
🖈 **Note:**

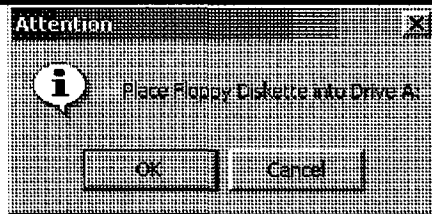## Storing Target Data Files
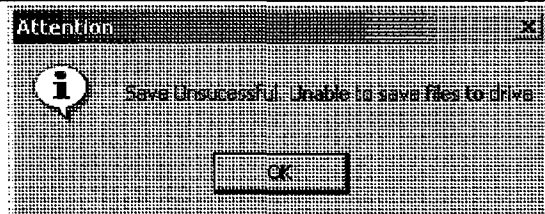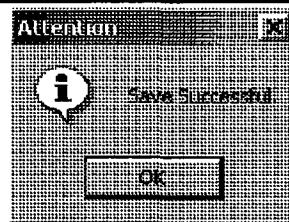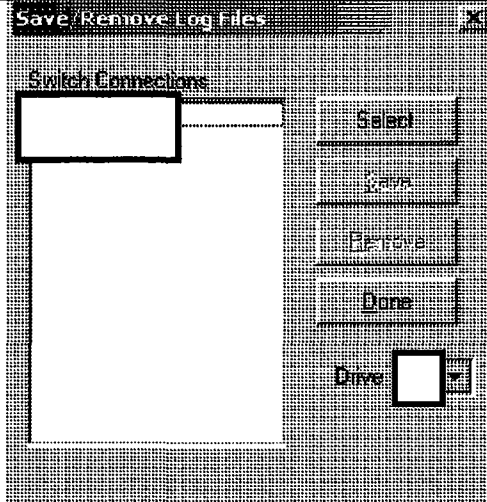
b2
b7E

🐾 **Note:**

To save a log file to a designated drive:

b2
b7E

Save/Remove Log Files

Back

Save

Remove

Done

Drive

b2
b7E

Attention

Save Unsuccessful - Unable to save files to drive

OK

Attention

Place Floppy Diskette into Drive A:

OK   Cancel

b2
b7E

Attention

Save Successful

OK
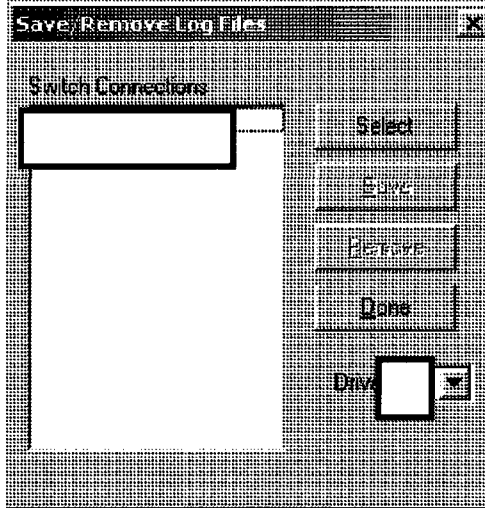
Save/Remove Log Files
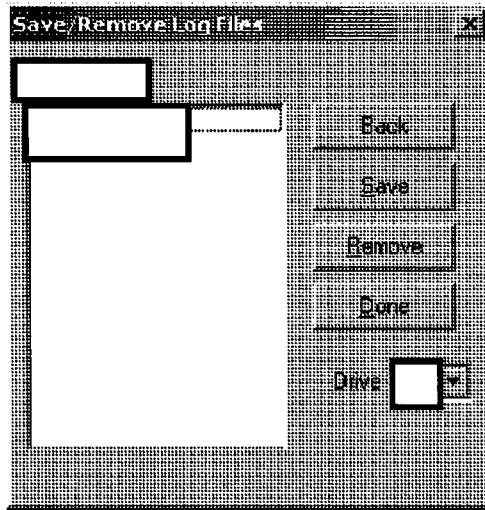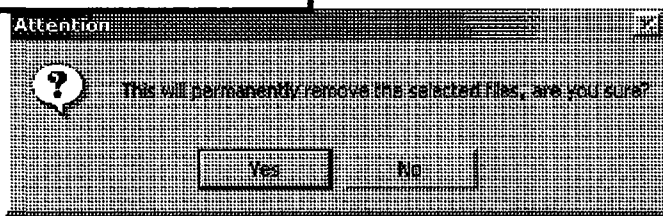
Switch Connections

Select

Save

Remove

Done
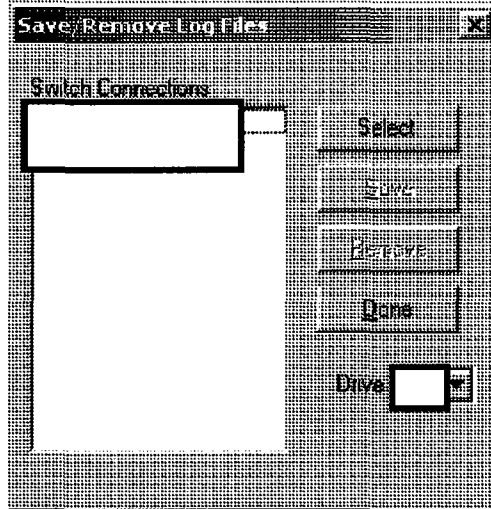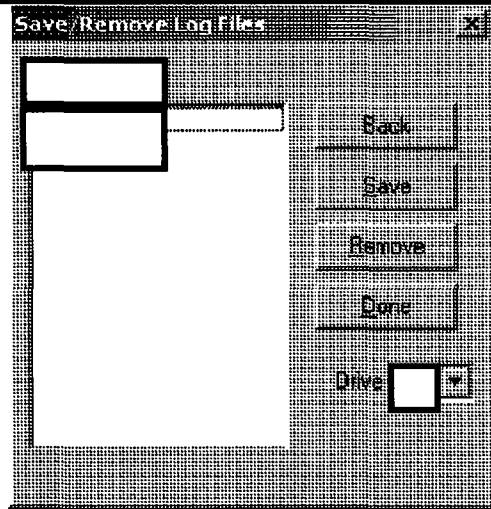
Drive
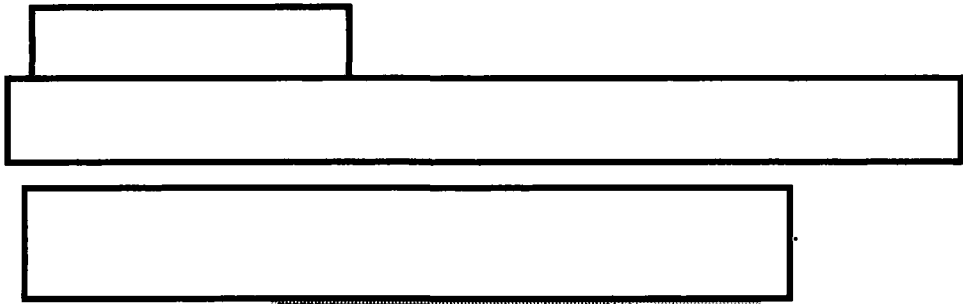
b2
b7E
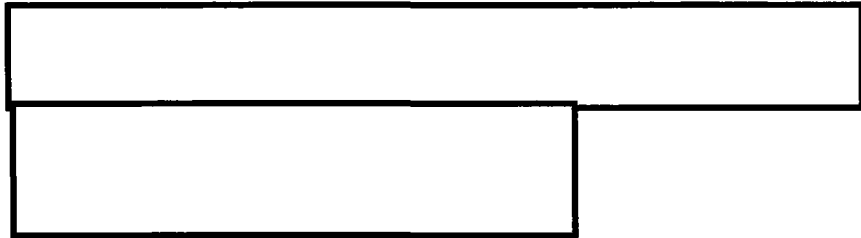
🖎 **Note:**

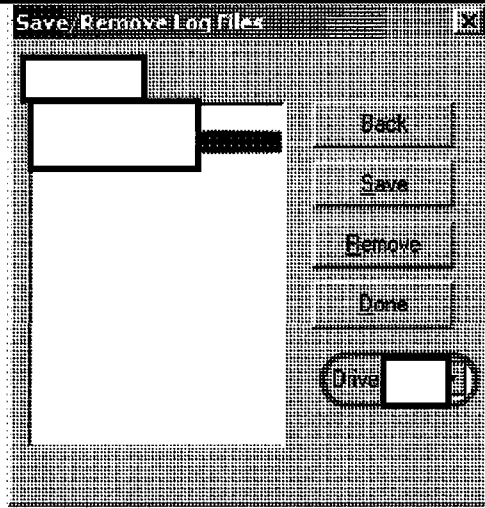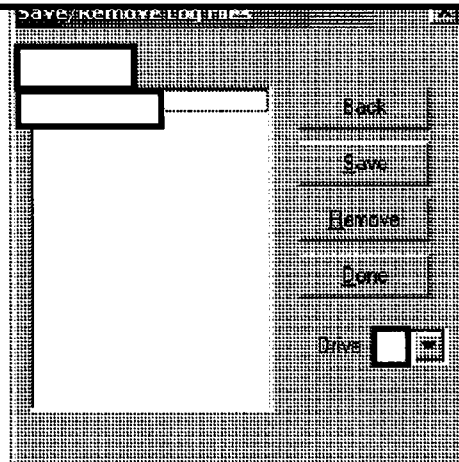**To remove a log file from the buffer:**

b2
b7E

Save/Remove Log Files   [X]

Back

Save

Remove

Done

Drive

b2
b7E

Attention   [X]

(?)   This will permanently remove the selected files, are you sure?

Yes   No

Save/Remove Log Files   [X]

Back

Save

Remove

Done

Drive

b2
b7E

Save/Remove Log Files

Switch Connections

Select

Save

Remove

Done
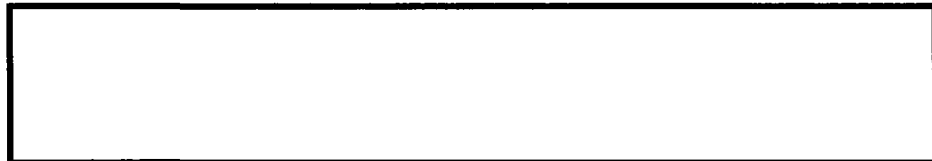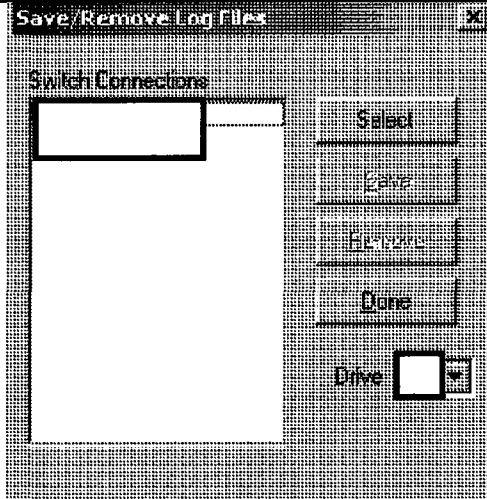
Drive

Note:

b2
b7E

Shutting Down the MultiServer

To shut down the MultiServer:

Quick Steps: DCS MultiServer

Working in the MultiServer Window

To clear detail messages from the MultiServer window:

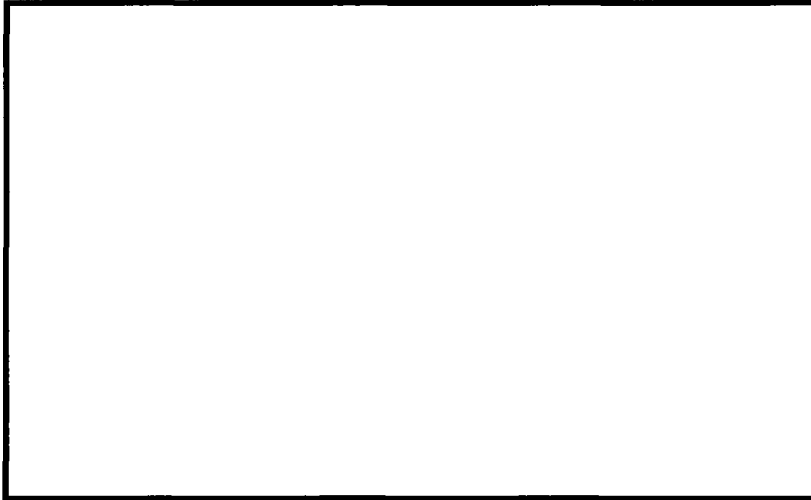### To cut a text selection:

To copy a text selection:

To cut all text:

b2
b7E

To copy all text:

Setting up a Switch

To Add a connection:

To Edit a connection:

b2
b7E

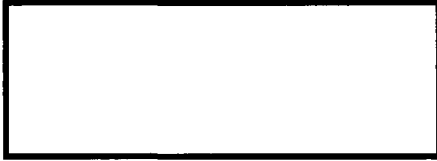**To Delete a connection:**
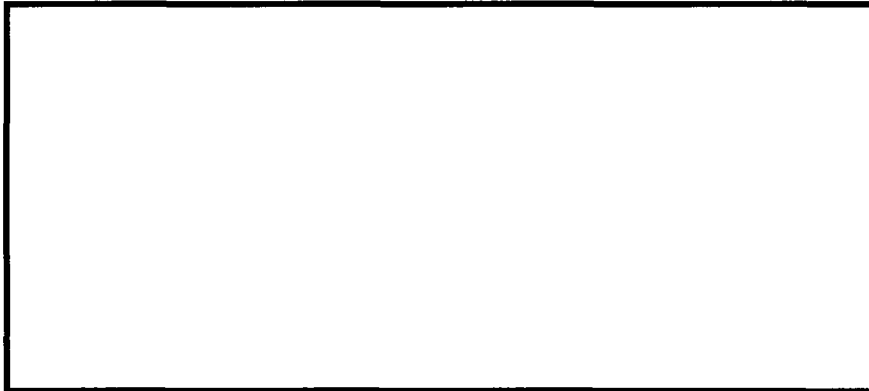
To Establish a Connection:
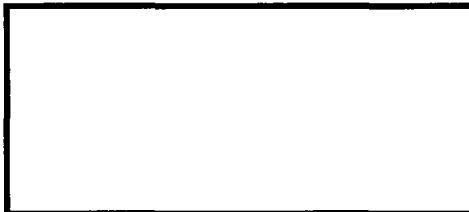
b2
b7E

To Disconnect all switches:
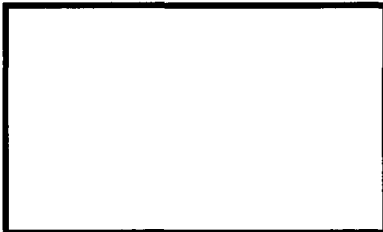
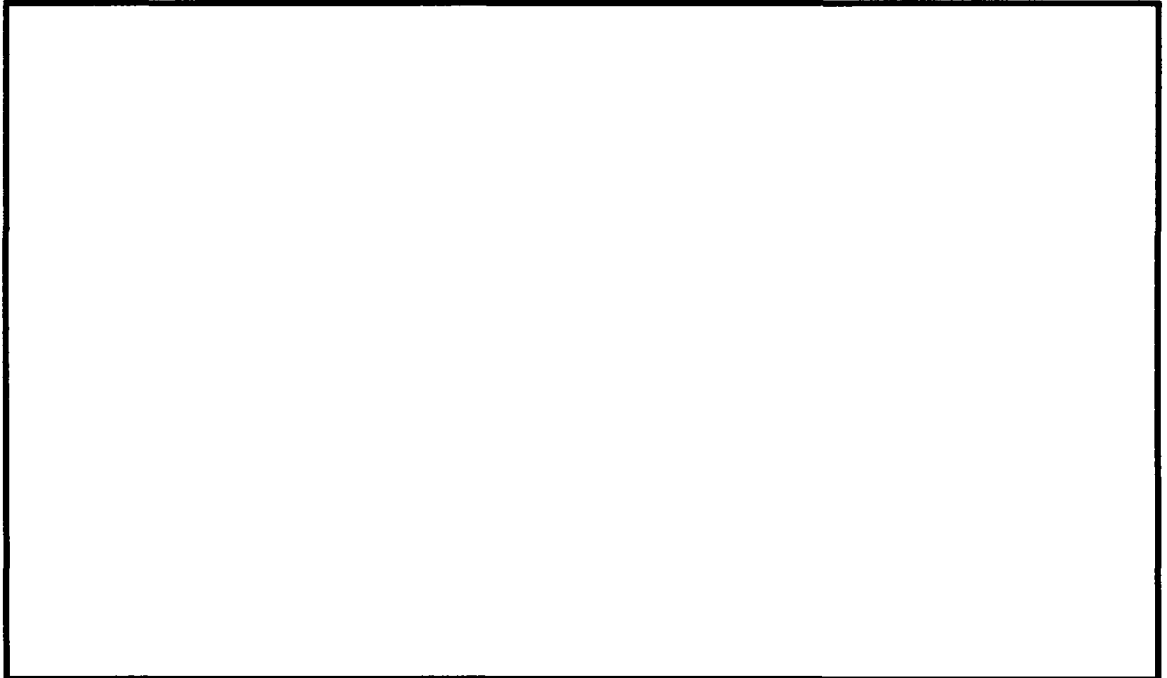**To Disconnect one switch:**

b2
b7E

Setting up a Switch

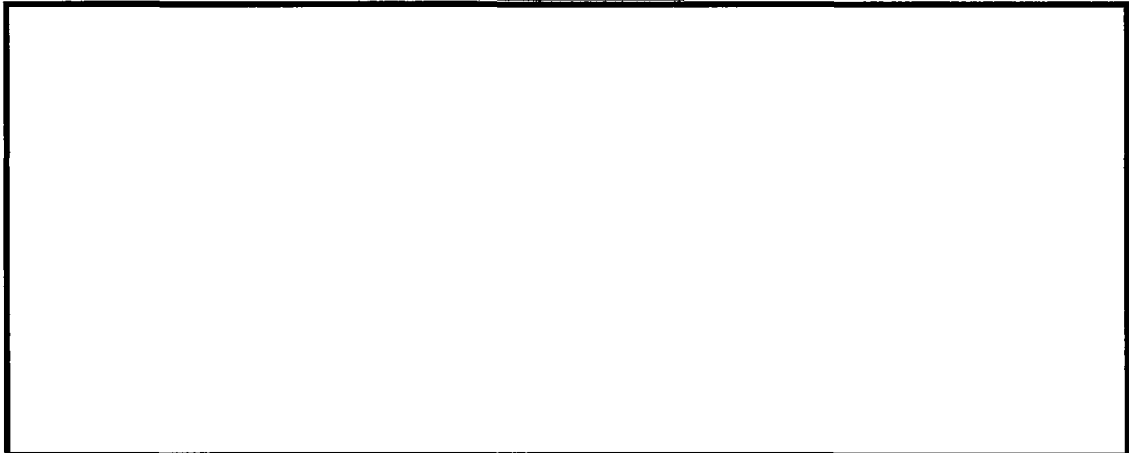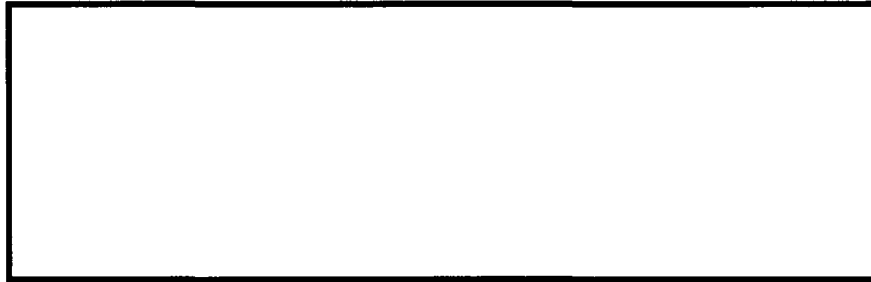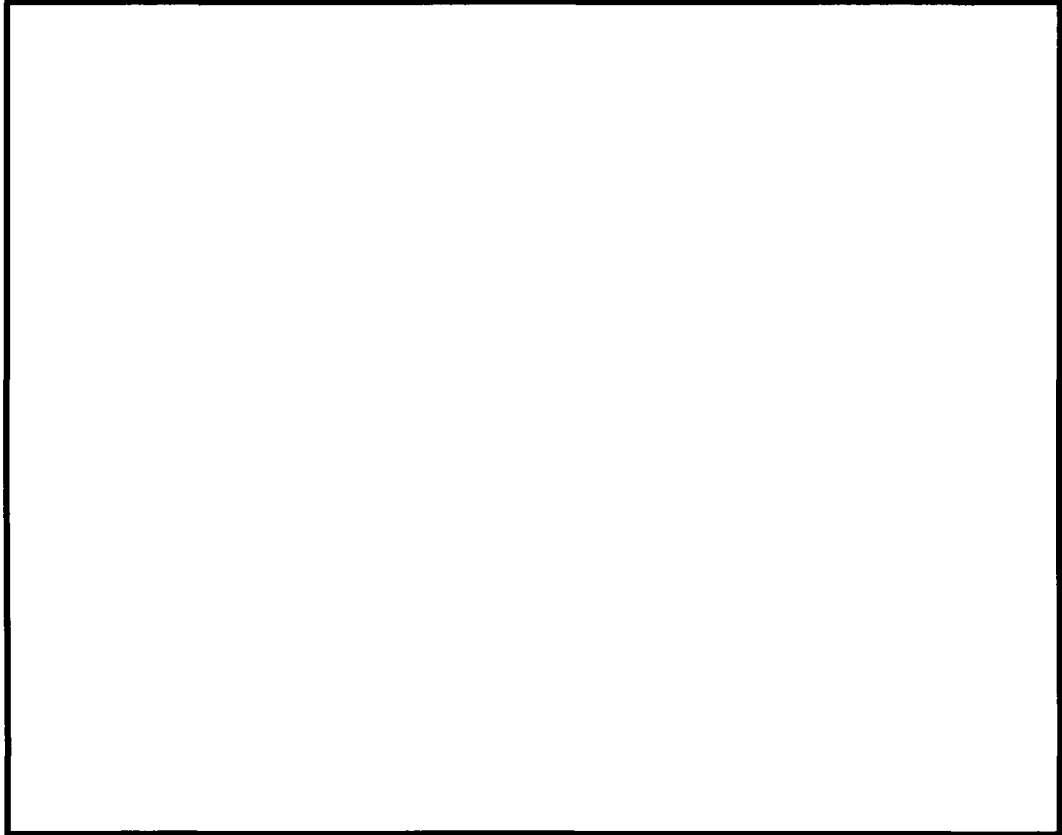**To configure the MultiServer for a** [   ] **with a TCP/IP connection:**

b2
b7E

To configure the MultiServer for a [   ] **with a Serial connection:**

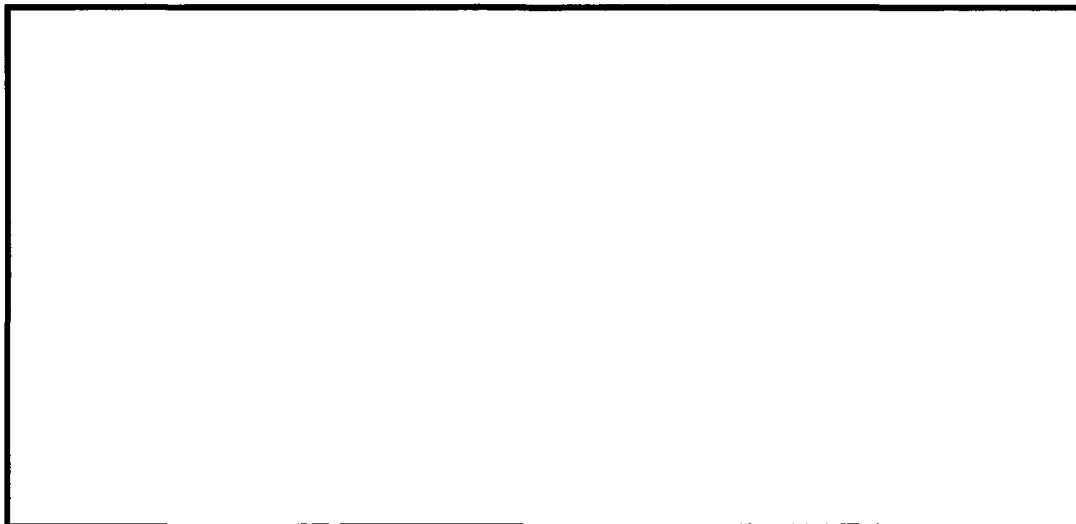**To configure the MultiServer for an ⬚ with a Telnet connection:**

b2
b7E

Setting up a Switch - ⬚

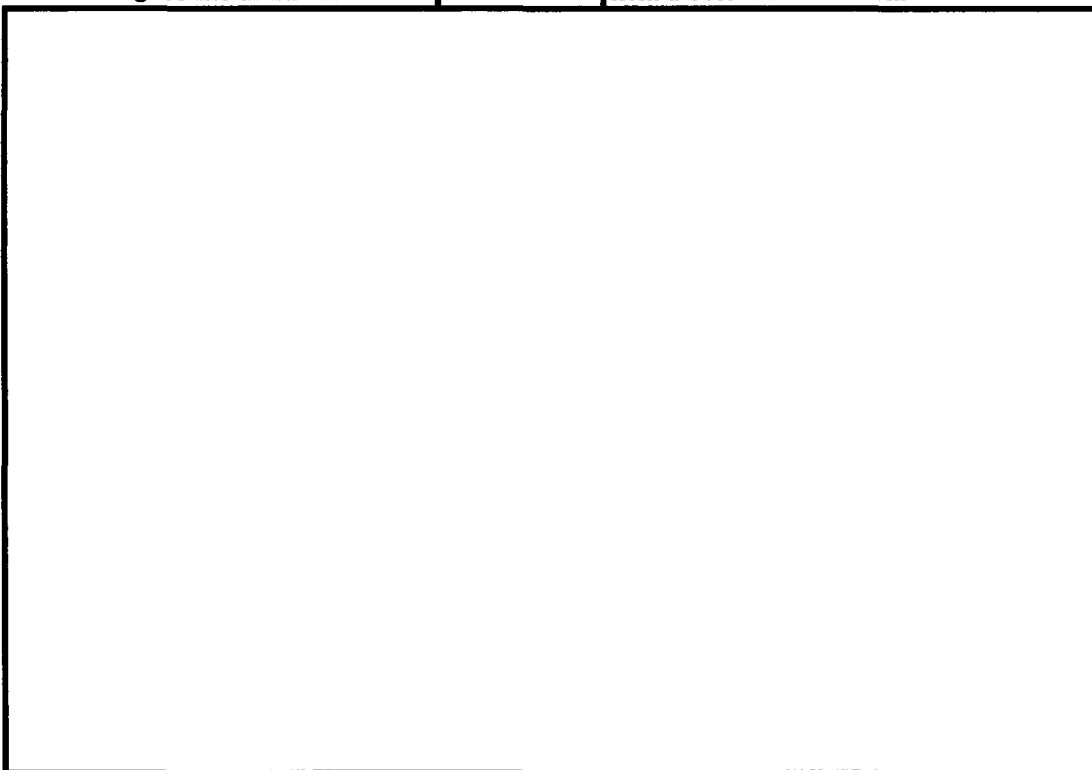**To configure the MultiServer for a ⬚ with a TCP/IP connection:**

b2
b7E

b2
b7E

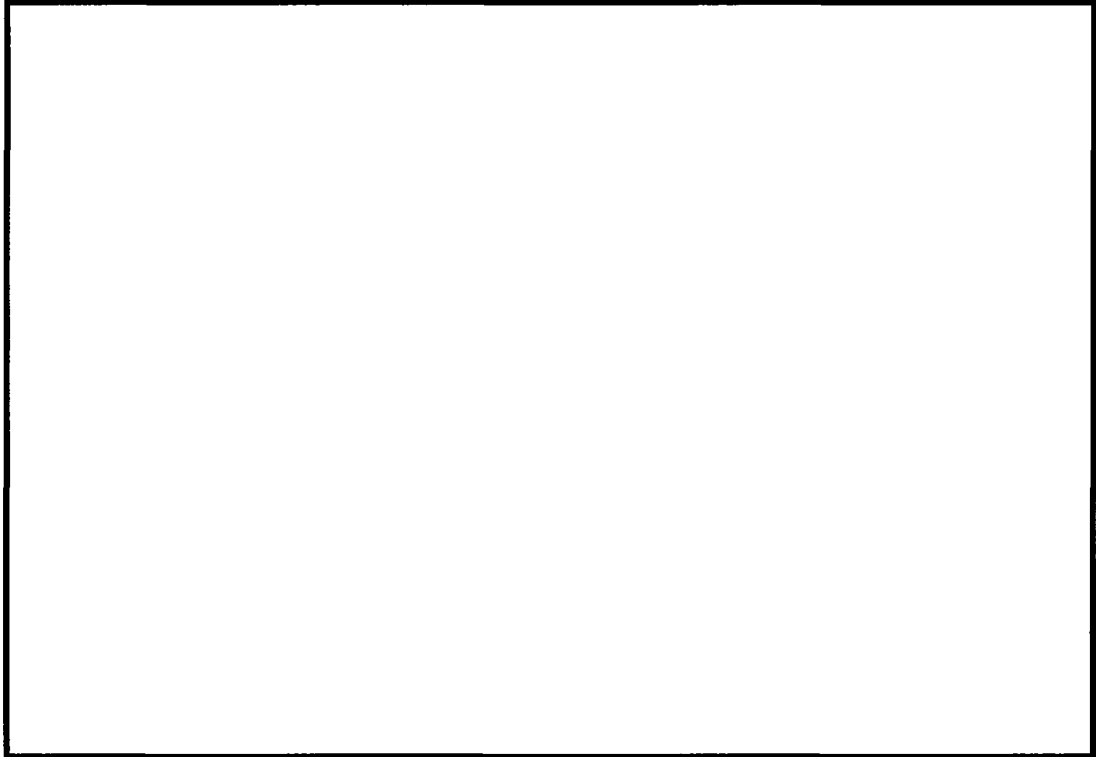**To configure the MultiServer for a**   **with a Serial connection:**

Setting up a Switch - ☐

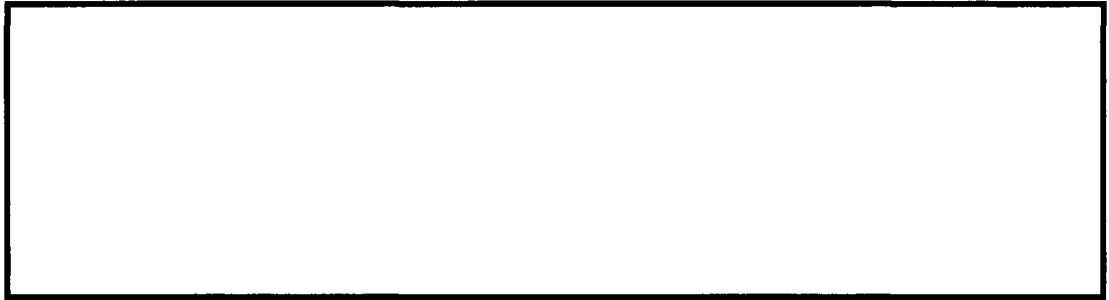**To configure the MultiServer for a** ☐ **with a Serial connection:**

☐

b2
b7E

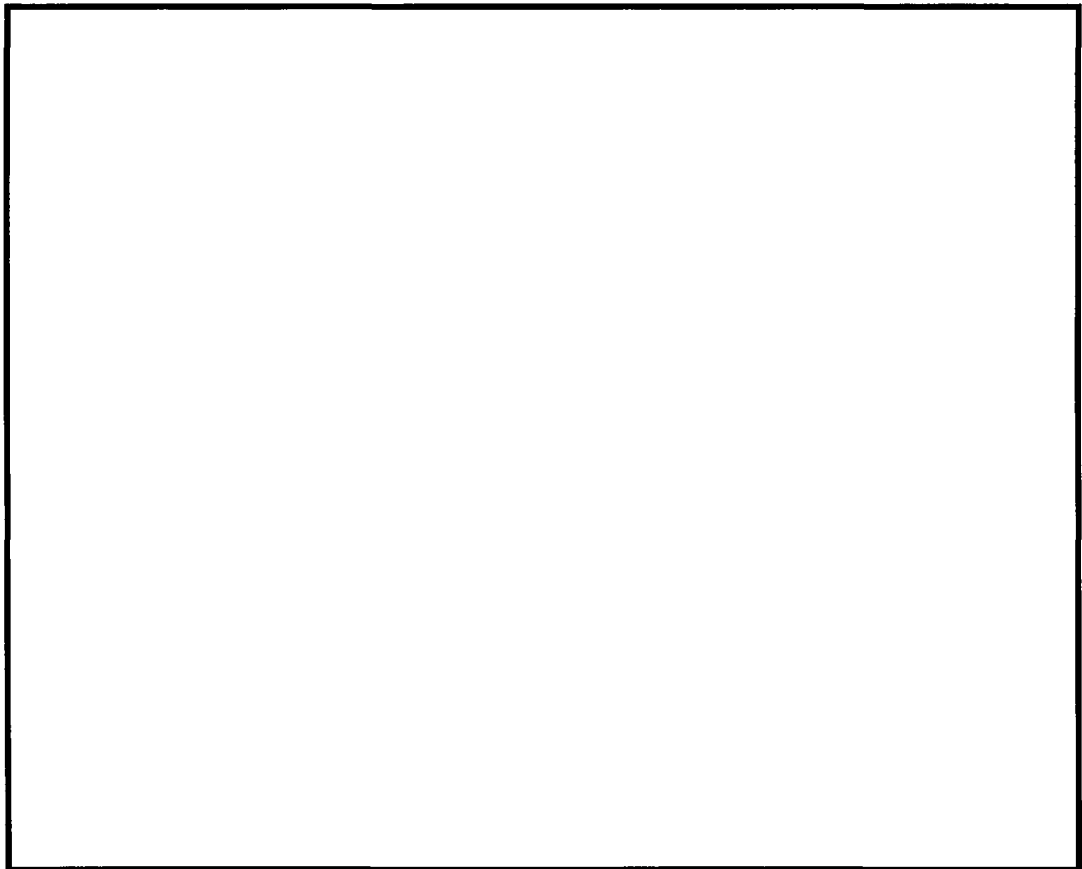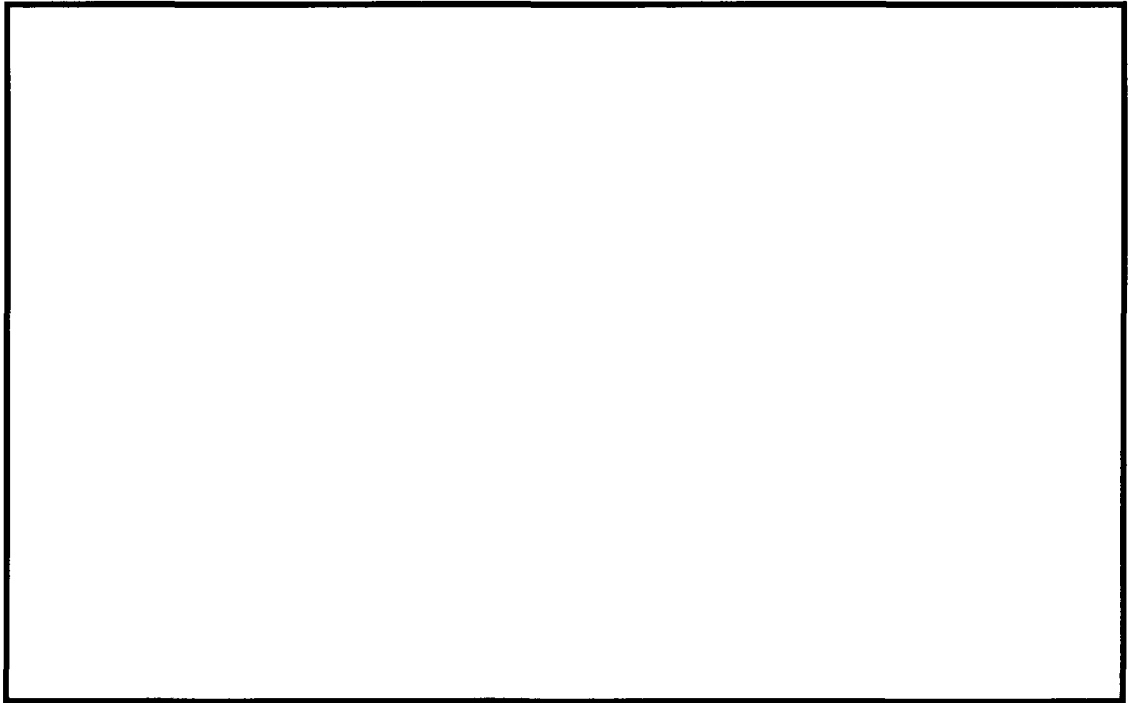**To configure the MultiServer for an** ☐ **with a Telnet connection:**

☐

b2
b7E

Setting up a Switch – J-STD-025 Connections

To configure the MultiServer for a J-STD-025 switch with a TCP/IP connection:
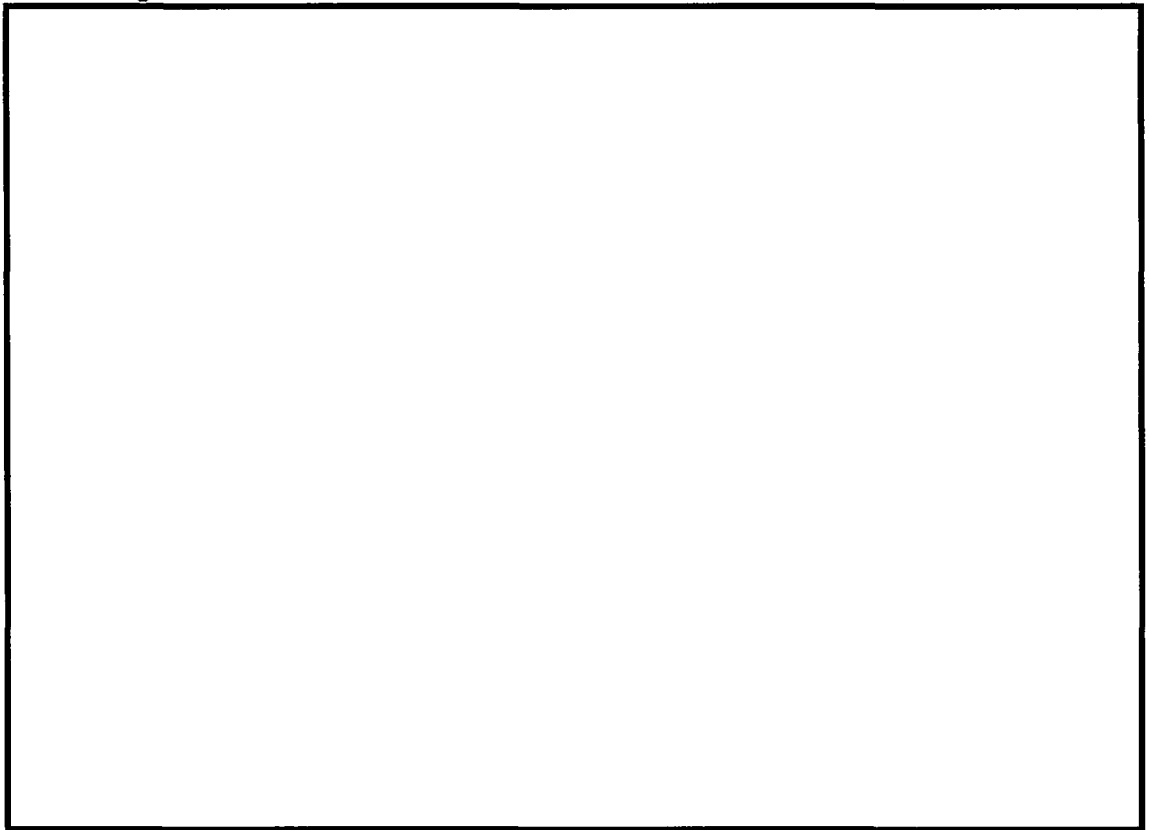
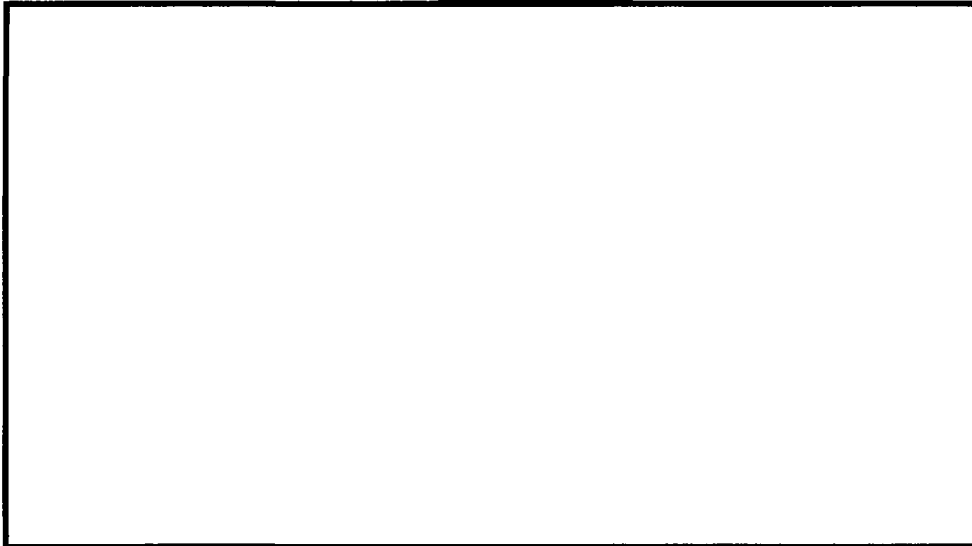### To configure the MultiServer for a J-STD-025 switch with a Serial connection:

b2
b7E

To configure the MultiServer for a J-STD-025 switch with a GR30 connection:
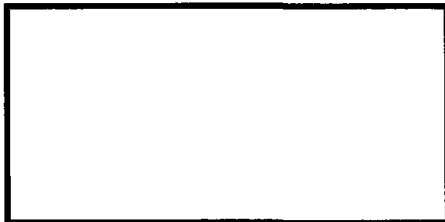
To configure the MultiServer for a [ ] **with a TCP/IP connection:**

b2
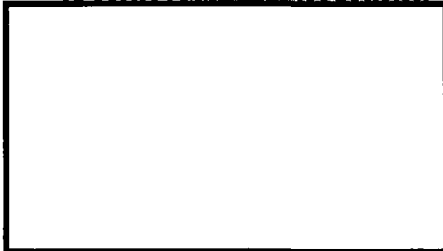b7E

Monitoring Calls

To verify recent switch activity:

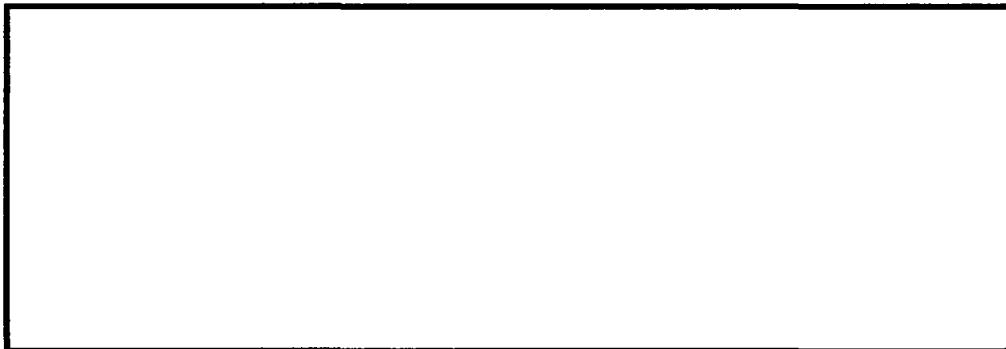**To verify recent Target activity:**

Storing Target Data Files

To save a log file to a designated drive:

To remove a log from the buffer:

b2
b7E

Shutting Down the MultiServer

To shut down the MultiServer: