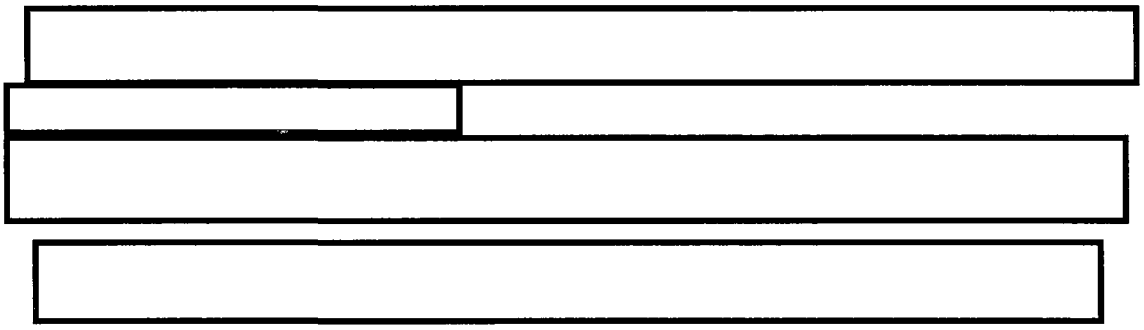
# Data Collection System (DCS) 3000

# User Guide

# Chapter 4

Software Version Numbers: Server V 4.5e

## DCS Server



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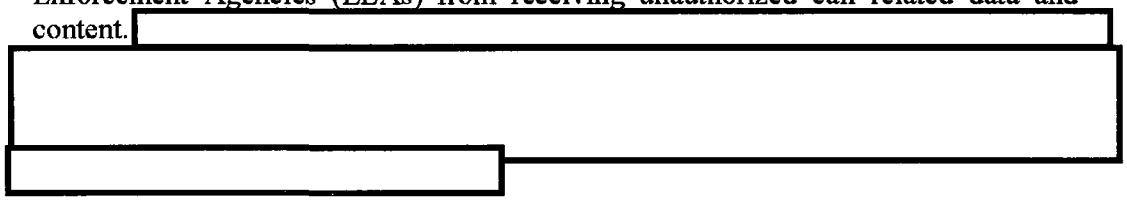
The DCS Server helps maintain the integrity of case information by preventing Law Enforcement Agencies (LEAs) from receiving unauthorized call related data and content.





ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-22-2007 BY 65179 DMH/TAM/KSR/cb

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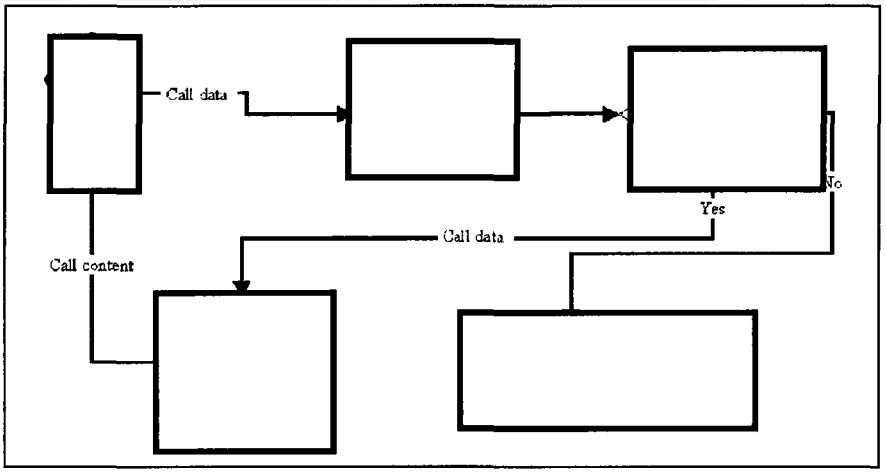


**Figure 4-1: Server Data Flow**

Some examples include:

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## Intercepting Nextel Push-to-Talk Calls

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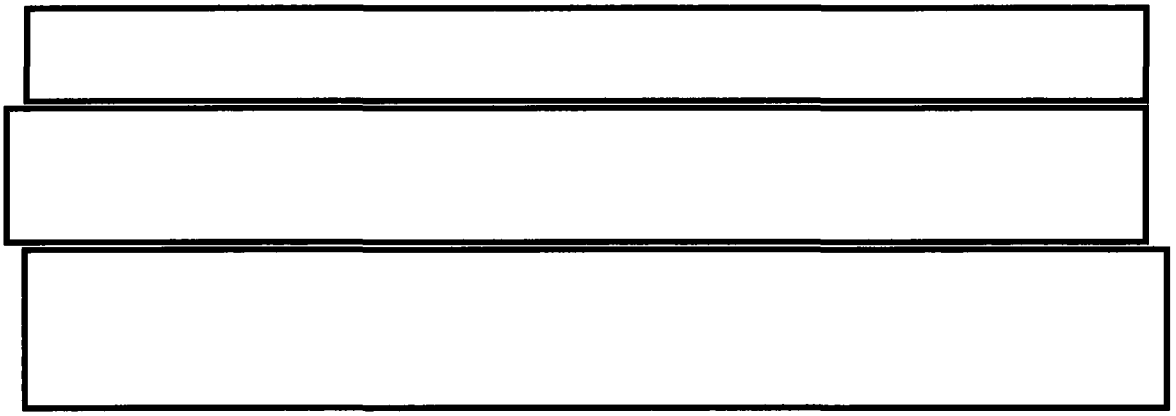

### Decoders

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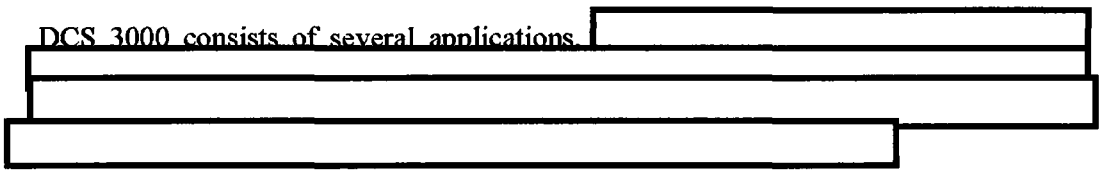
### PTT Data Flow

DCS 3000 consists of several applications.



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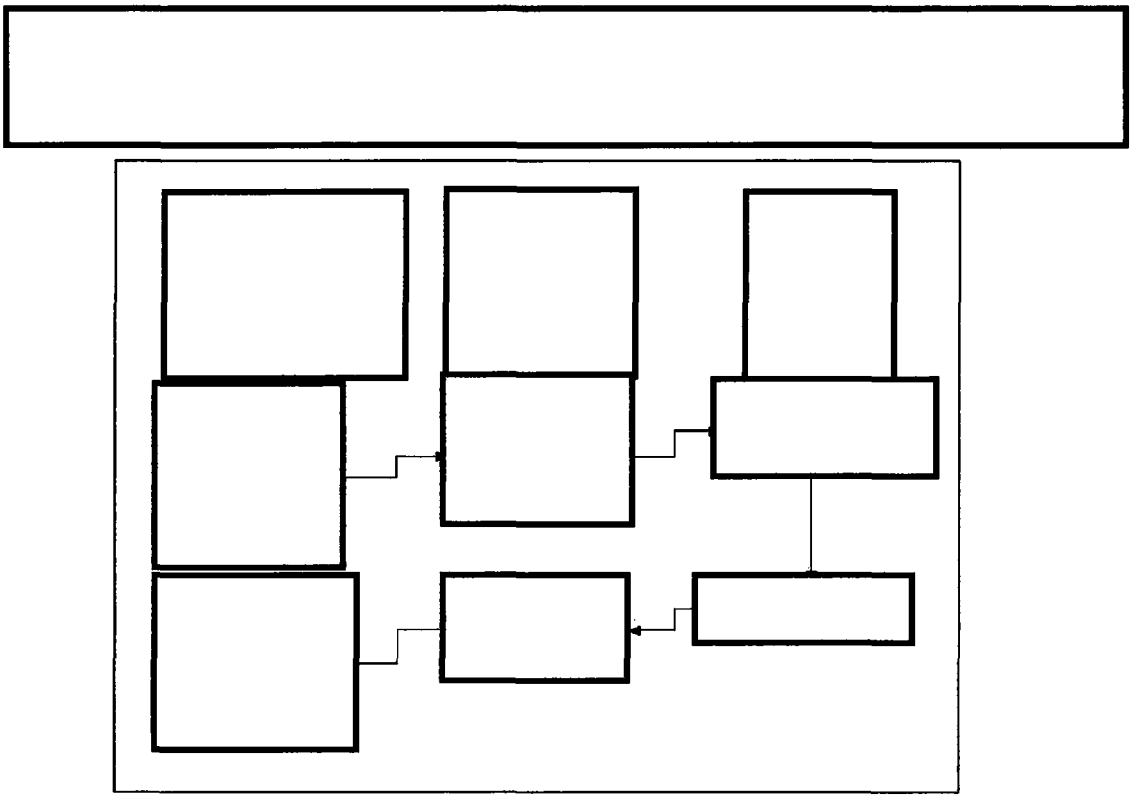

Figure 4-2: Summary of PTT Surveillance Process

# Server Settings and Options

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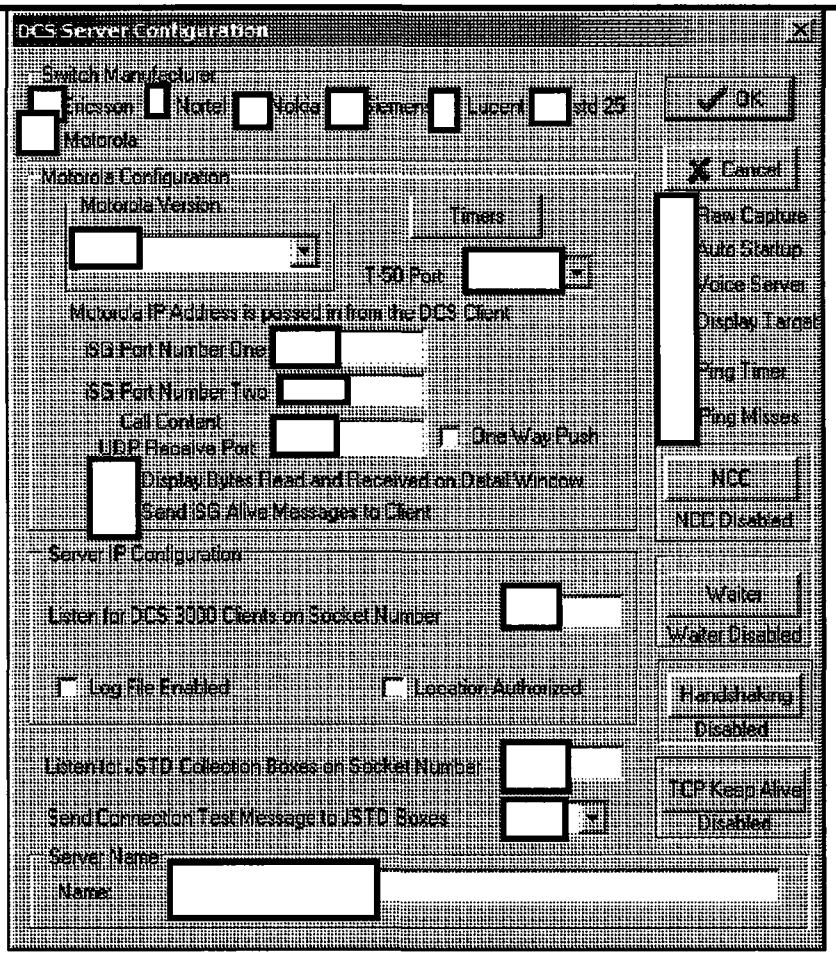


**Figure 4-3: DCS Server Configuration Window**

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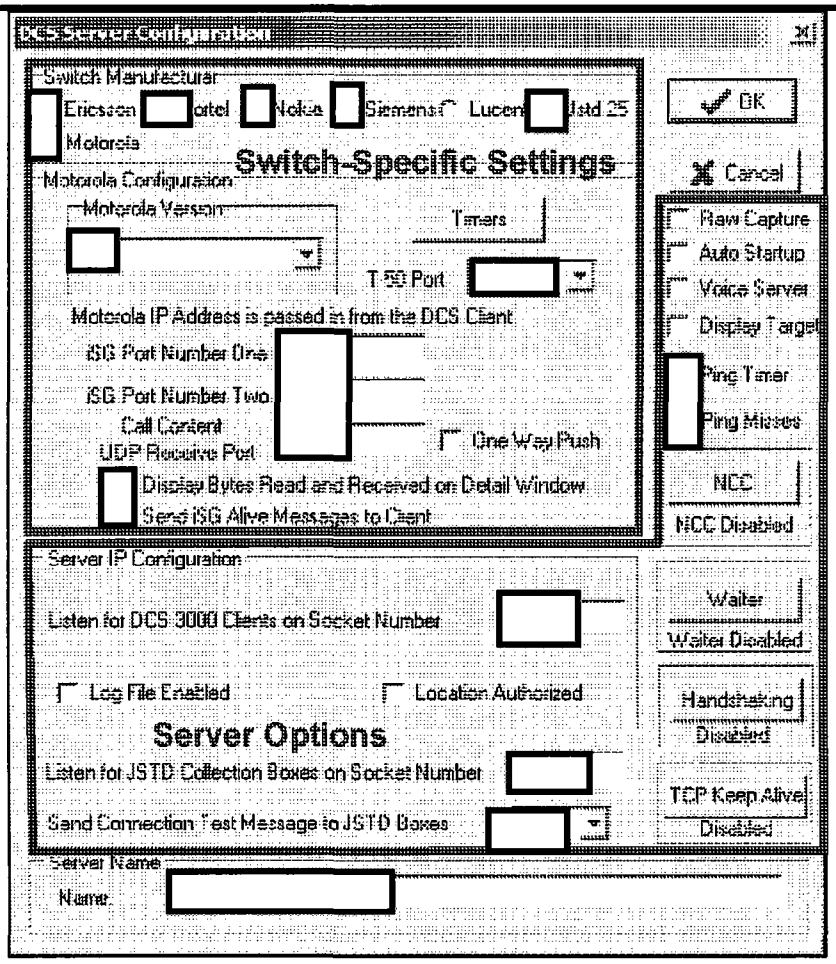


**Figure 4-4: DCS Server Configuration window**

The settings and options section of this chapter are presented in the following order:

- Server Options
- Switch-Specific Settings

## Server Options

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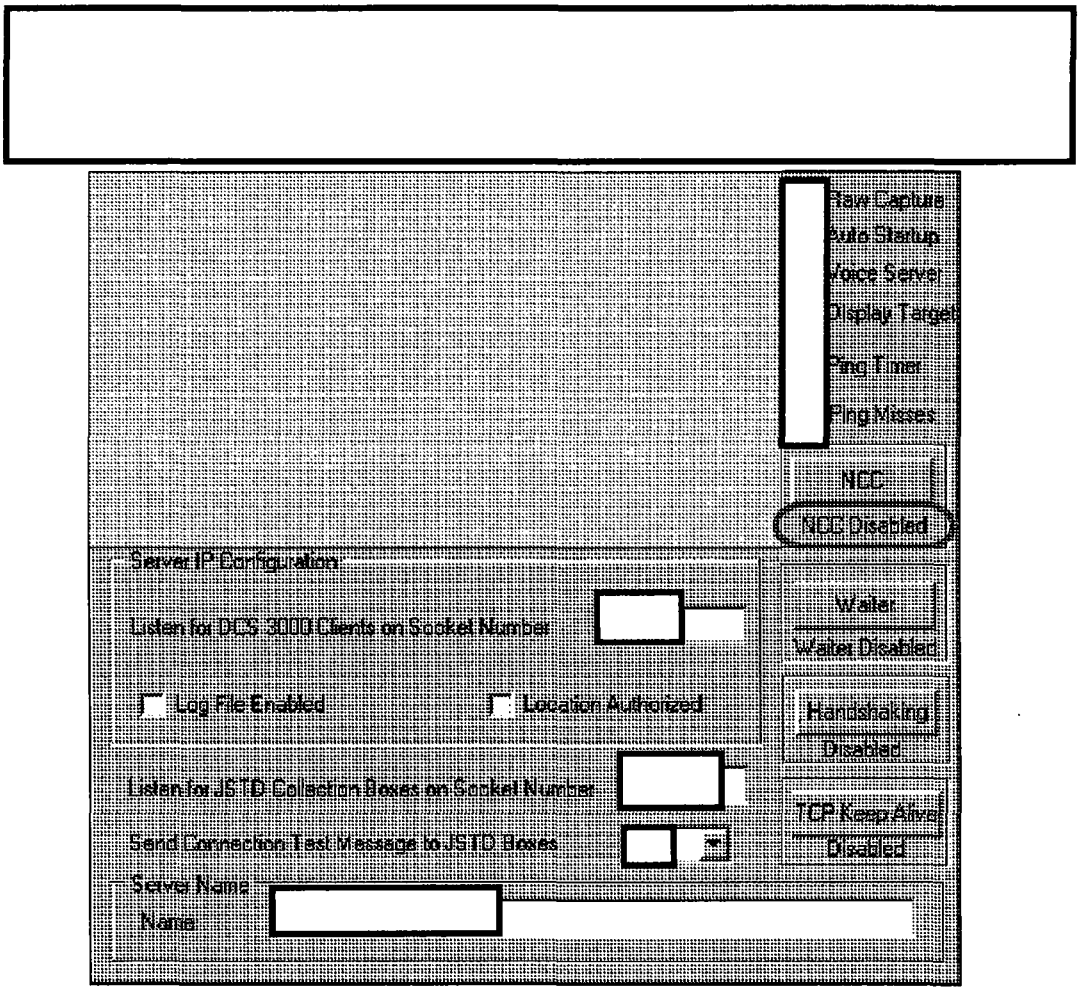


**Figure 4-5: DCS Server Configuration Window - Standard Options**

This table describes the options available for all Server connections.

| Setting/Option | Description |
|---|---|
| Listen on Socket Number | |
| Log File Enabled | |
| Location Authorized | |
| Listen for JSTD Collection Boxes on Socket Number | |
| Send Collection Test Message to JSTD Boxes | |
| Server Name | |
| Raw Capture | |
| Auto Startup | |
| Voice Server | |
| Display Target | |
| Ping Timer | |
| Ping Misses | |
| NCC | |

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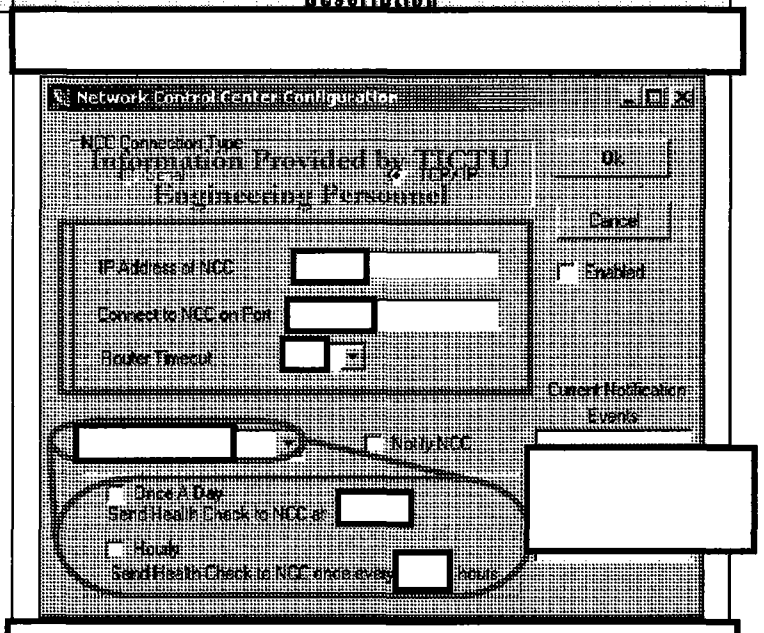
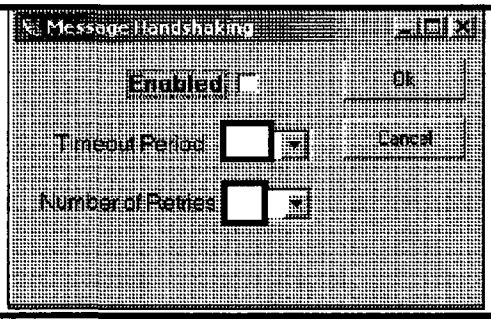
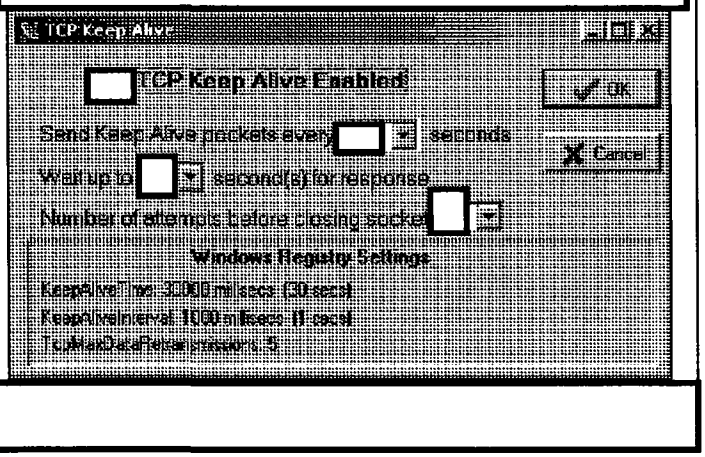
| Setting/Option | Description |
| --- | --- |
| *Network Control Center Configuration Window* |  |
| b2<br>b7E | |

| Setting/Option | Description |
|---|---|
| Waiter | |
| Handshaking<br>*Message Handshaking Window* |  |
| TCP Keep Alive<br>*TCP Keep Alive Window* |  |

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## Switch-Specific Settings

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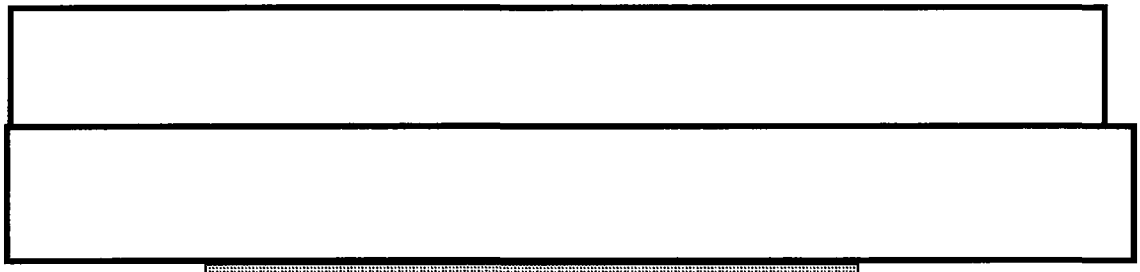


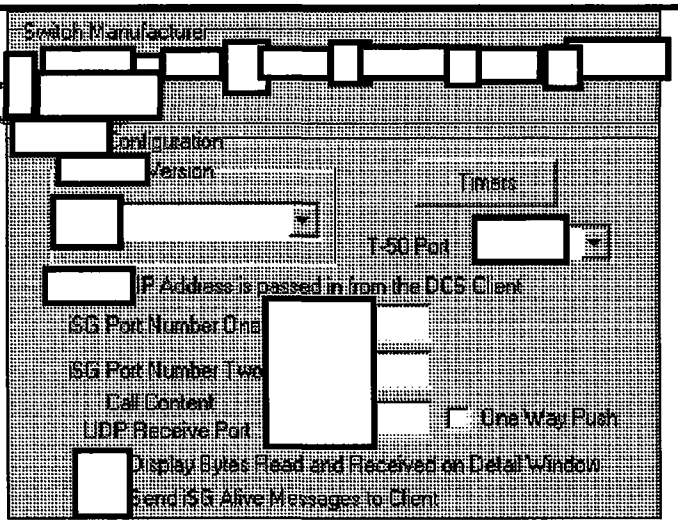
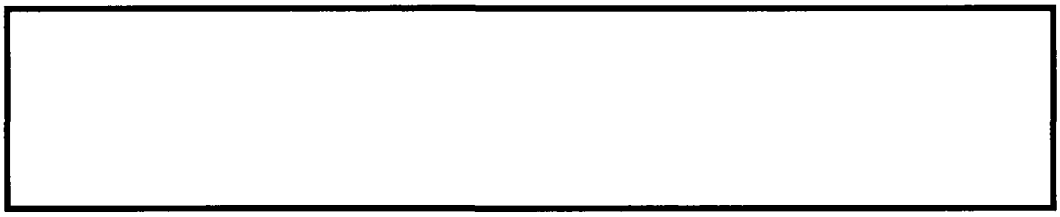
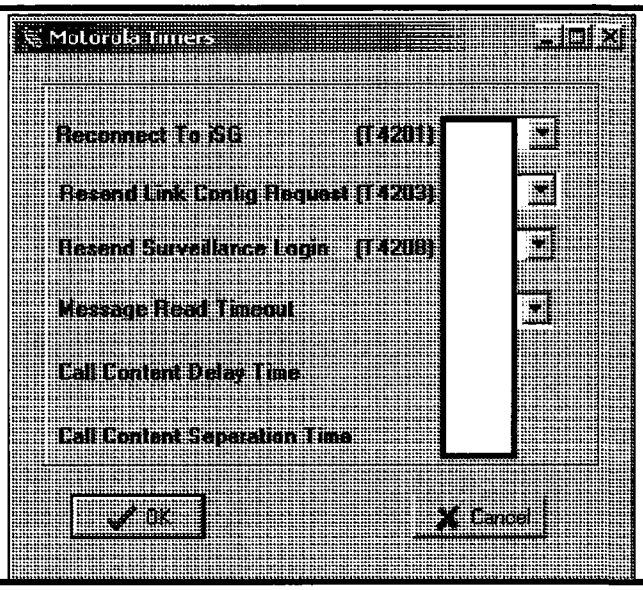



**Figure 4-6: DCS Server Configuration Window – Switch-Specific Settings**



This table describes the Motorola settings and options.

| Setting/Option | Description |
|---|---|
| Motorola Version | |
| Timers<br><br>*Motorola Timers Window*<br><br>b2<br>b7E |  |
| T-50 Port | |
| iSG Port Number One and Two | |
| Call Content / UDP Receive Port | |
| One Way Push | |

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| Setting/Option | Description |
|---|---|
| Display Bytes Read and Received on Detail Window | |
| Send iSG Alive Messages to Client | |

## Using the DCS Server

- Working in the Server Window
- Configuring the Server
- Configuring the Client
- Configuring the VSELP Decoder
- Establishing a Connection
- Monitoring Activity
- Storing Target Data Files
- Shutting Down the DCS Server

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## Working in the Server Window

[redacted]

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[redacted]

**To clear detail messages from the Server window:**

[redacted]

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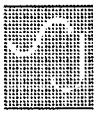
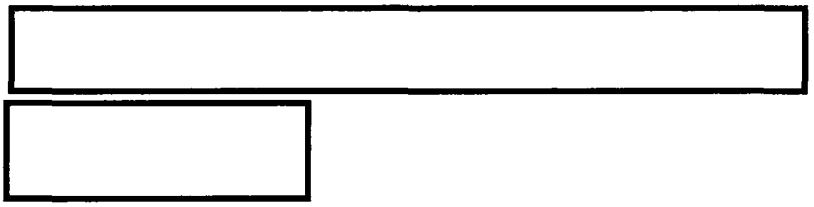
**To cut a text selection:**

[redacted]

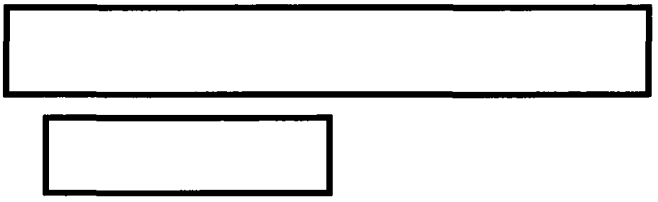
[redacted]



**To copy a text selection:**



**To cut all text:**



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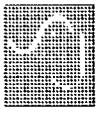
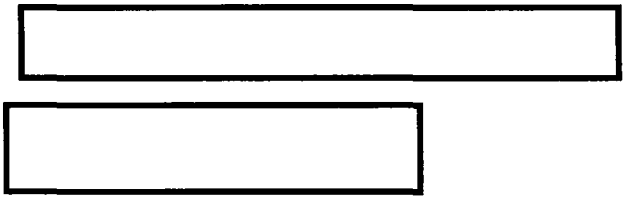


**To copy all text:**



## Configuring the Server

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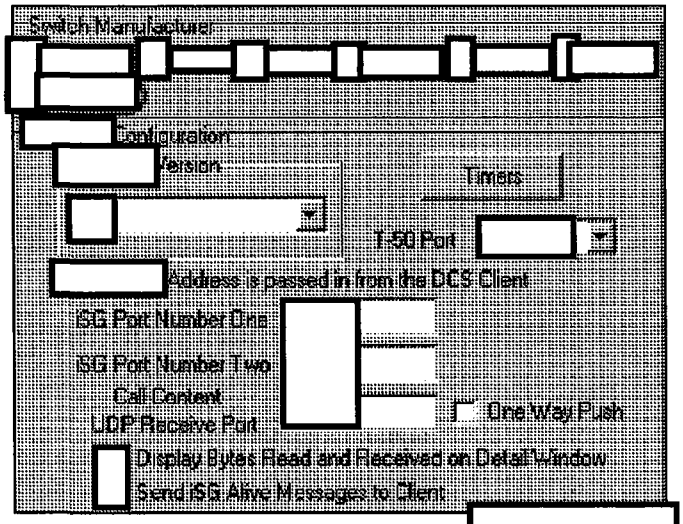
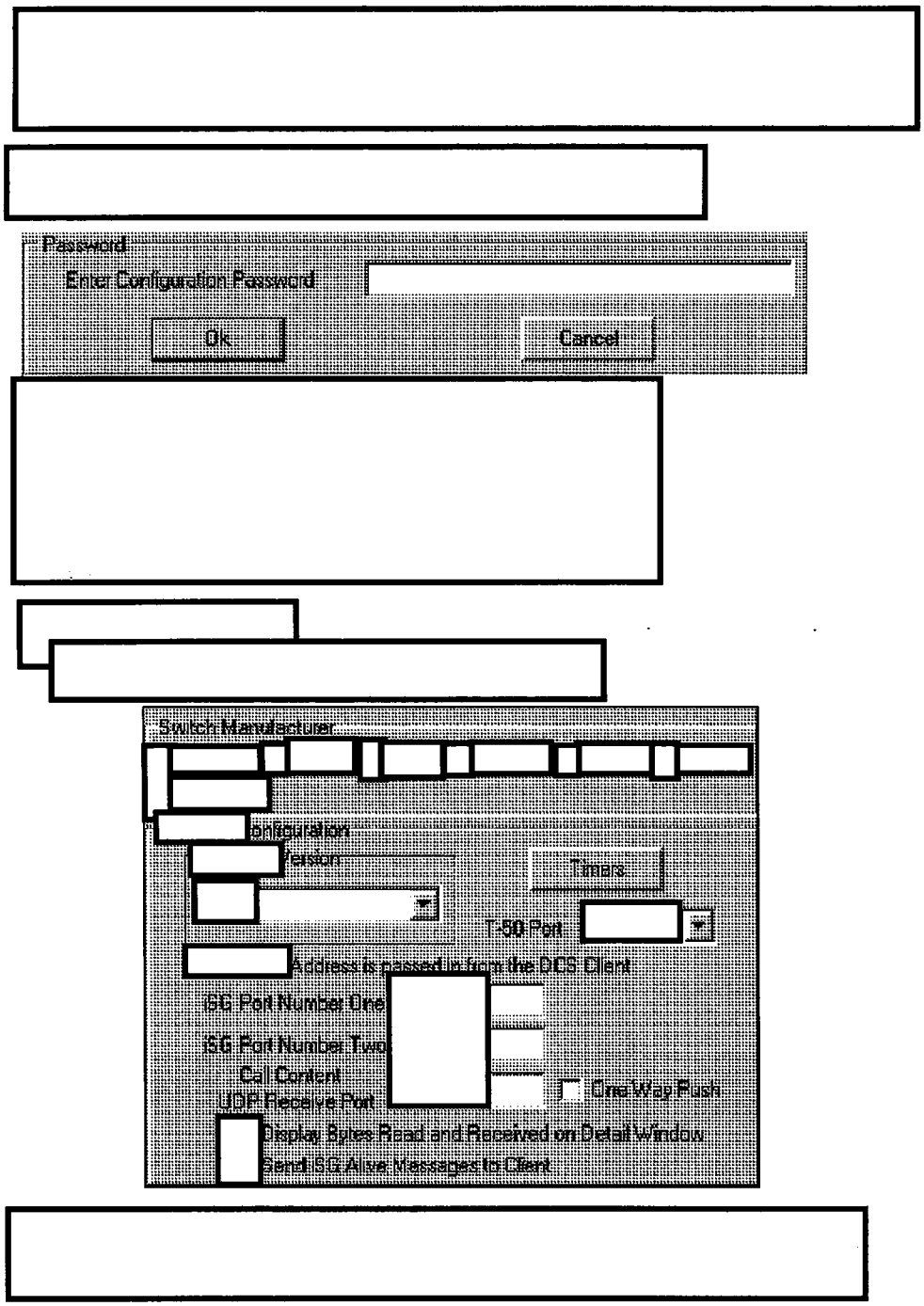



**Figure 4-7: DCS Server Configuration Window**

## To set up the Server for a PTT intercept:

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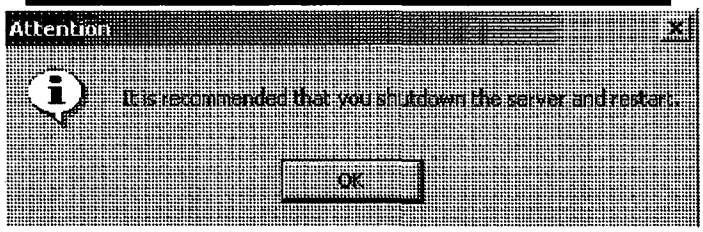
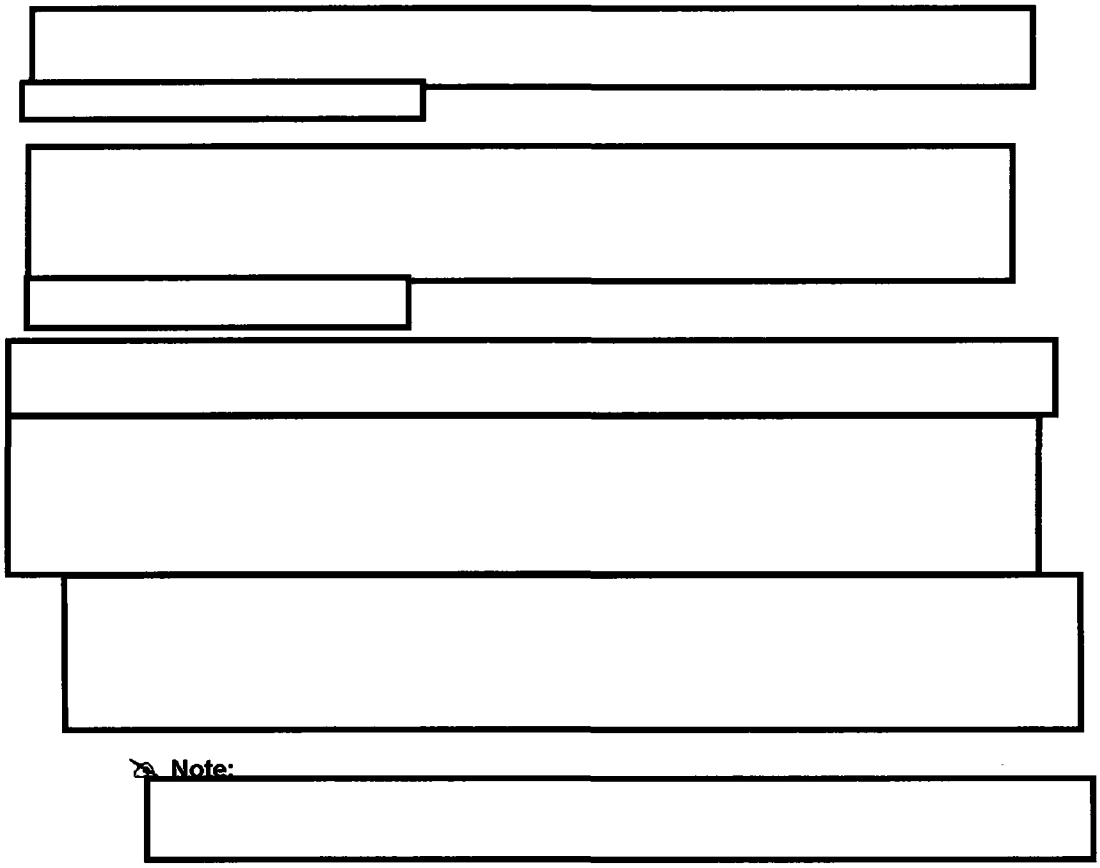
Note:


Attention
It is recommended that you shutdown the server and restar...
OK

## Configuring the Client



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Note:

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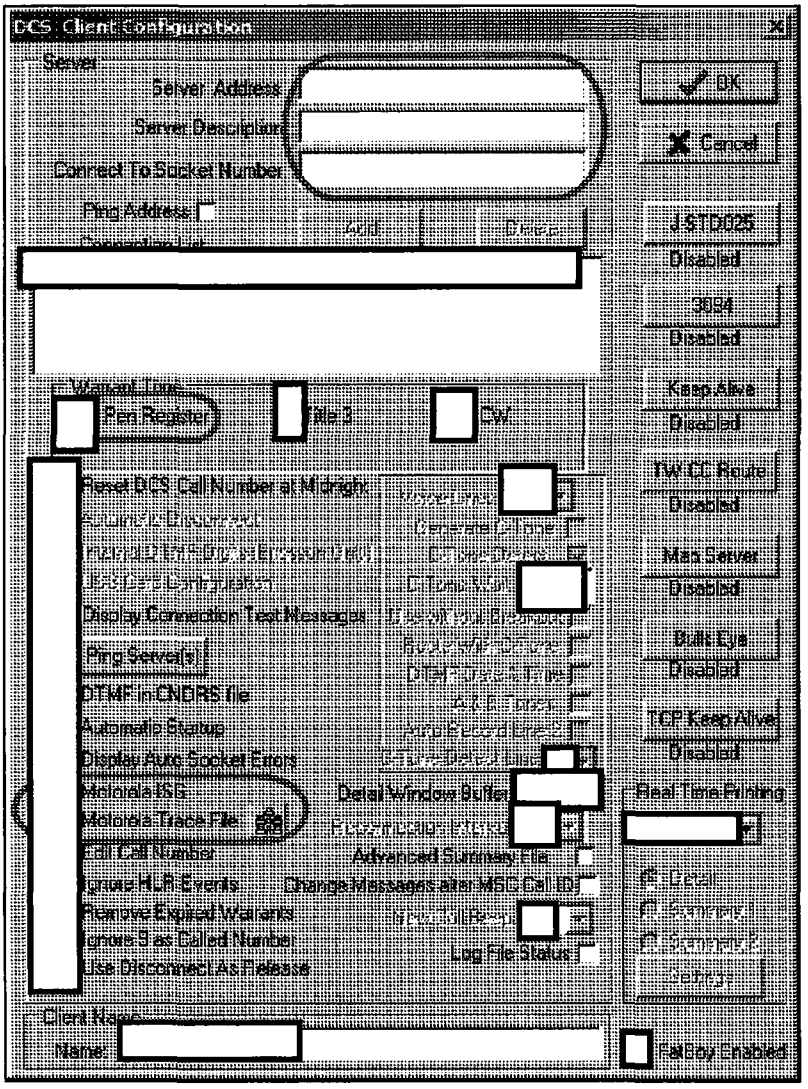


**Figure 4-8: DCS Client Configuration Window - PTT Settings**

## Enter the Warrant Through the DCS Client

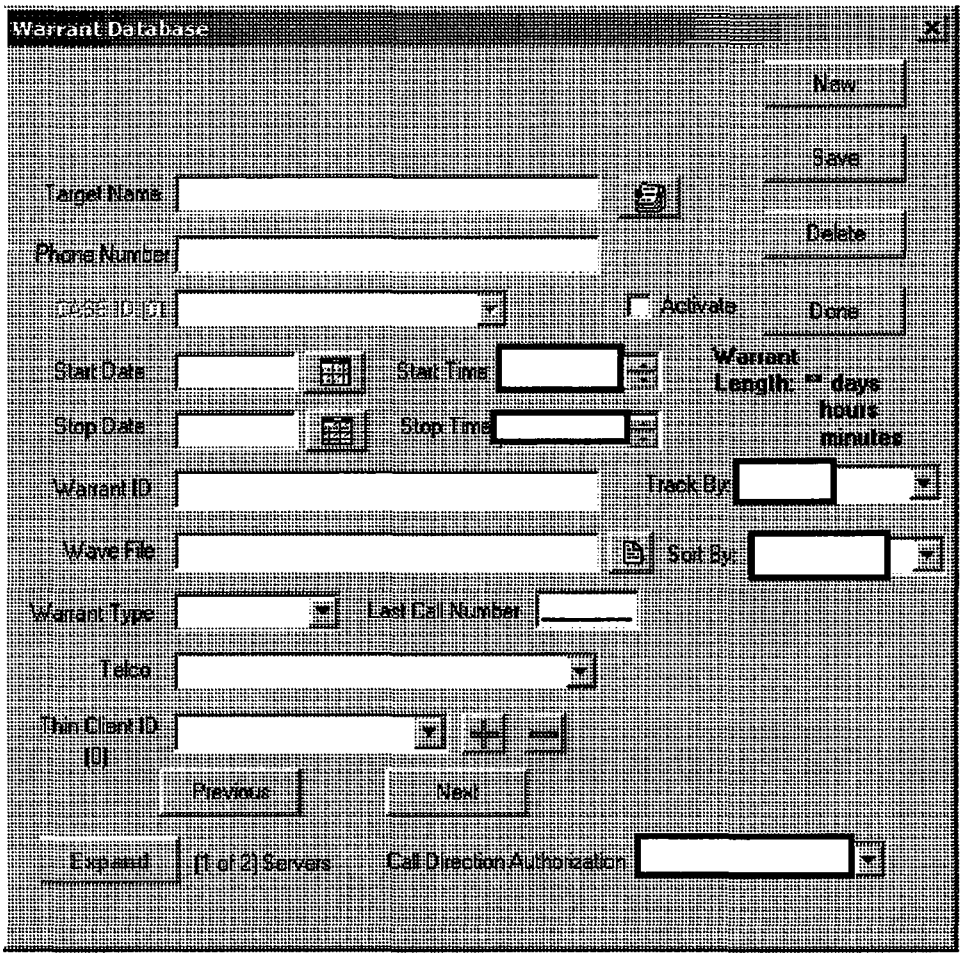


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**Figure 4-9: PTT Warrant Database Window**

## Identify PTT Targets Through the DCS Client

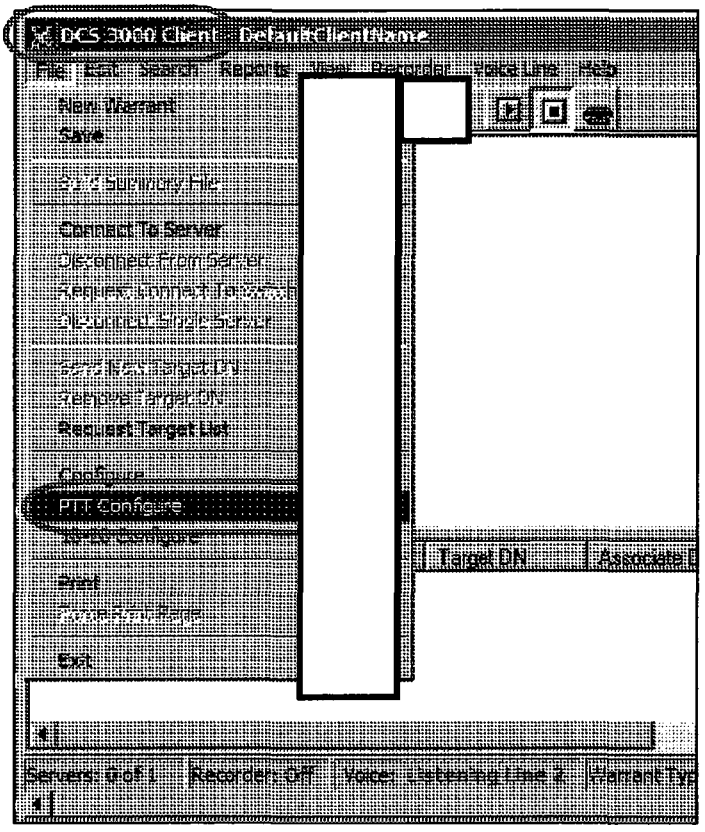


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**Figure 4-10: DCS Client Main Display – File Menu Options**

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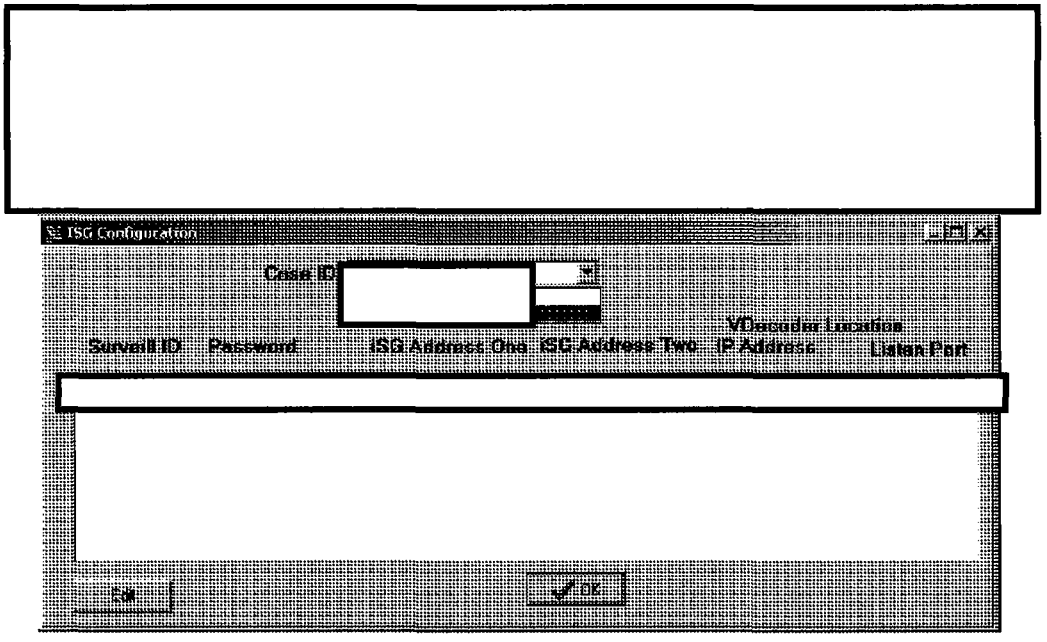


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**Figure 4-11: ISG Configuration window**

This table describes the features of the iSG Configuration window.

| Option | Description |
|---|---|
| Case ID drop-down list | |
| iSG target list | |
| Edit | |
| OK | |

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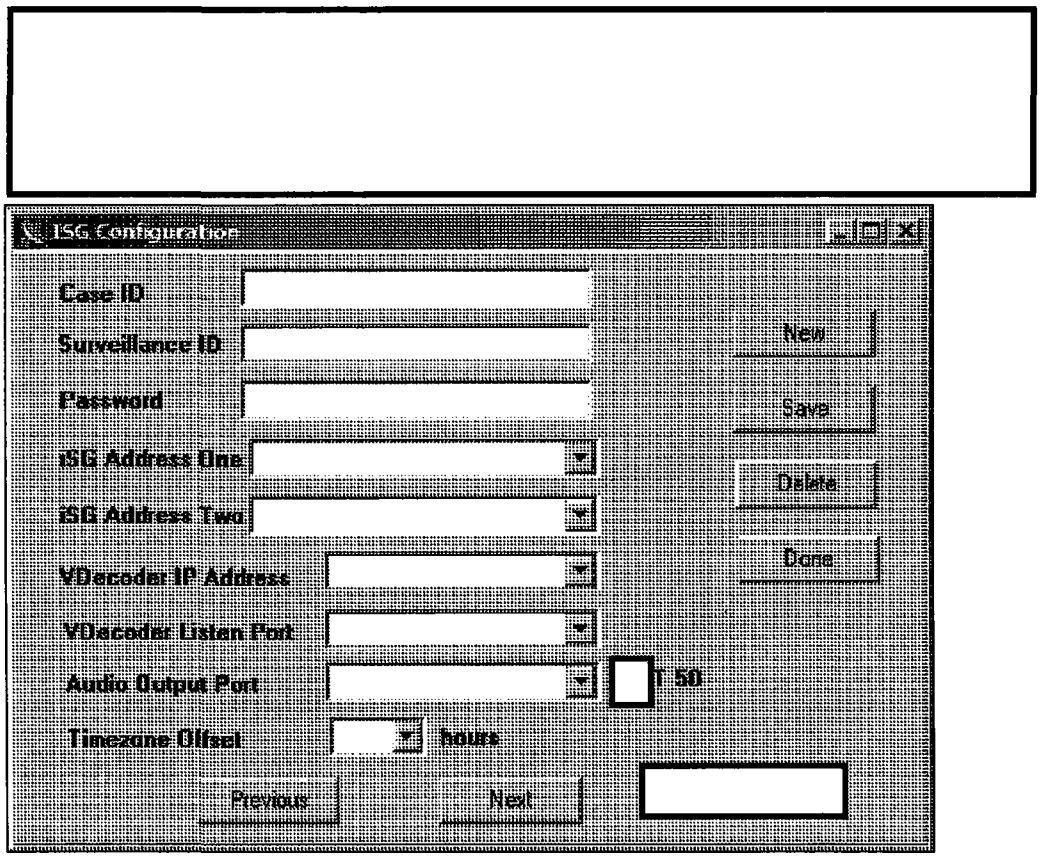


**Figure 4-12: ISG Configuration Detailed Window**

This table describes the features of the iSG Configuration detail window.

| Option | Description |
|---|---|
| Case ID | |
| Surveillance ID | |
| Password | |
| iSG Address One | |
| iSG Address Two | |
| Vdecoder IP Address | |
| VDecoder Listen Port | |

| Option | Description |
|---|---|
| Audio Output Port | |
| Timezone Offset | |
| T 50 | |
| | |
| Previous | |
| Next | |
| New | |
| Save | |
| Delete | |
| Done | |

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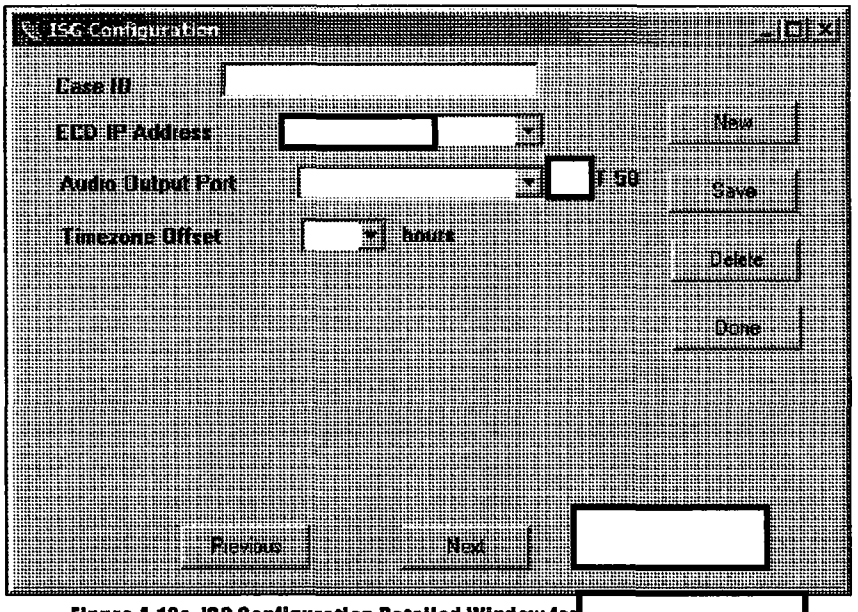


**Figure 4-12a: ISG Configuration Detailed Window for**

| Option | Description |
|---|---|
| Case ID | |
| ECD IP Address | |
| Audio Output Port | |
| Timezone Offset | |
| T 50 | |
| Previous | |
| Next | |
| New | |
| Save | |
| Delete | |
| Done | |

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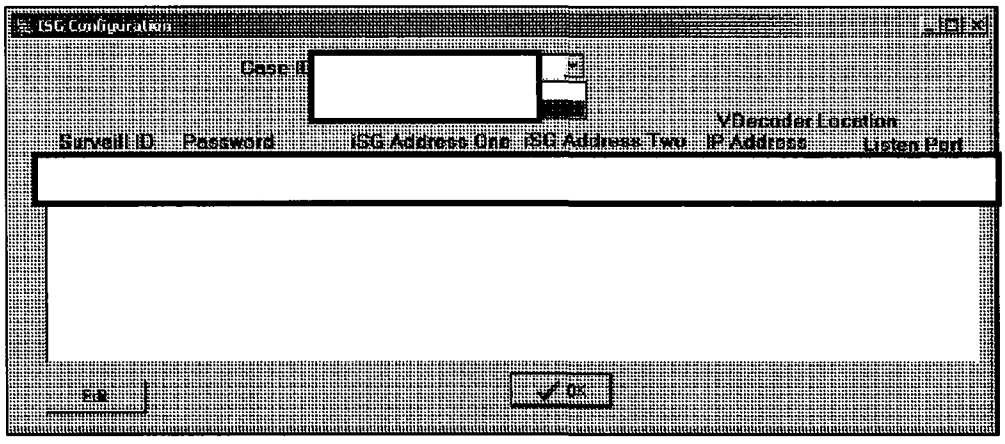
## To identify PTT targets:

1.

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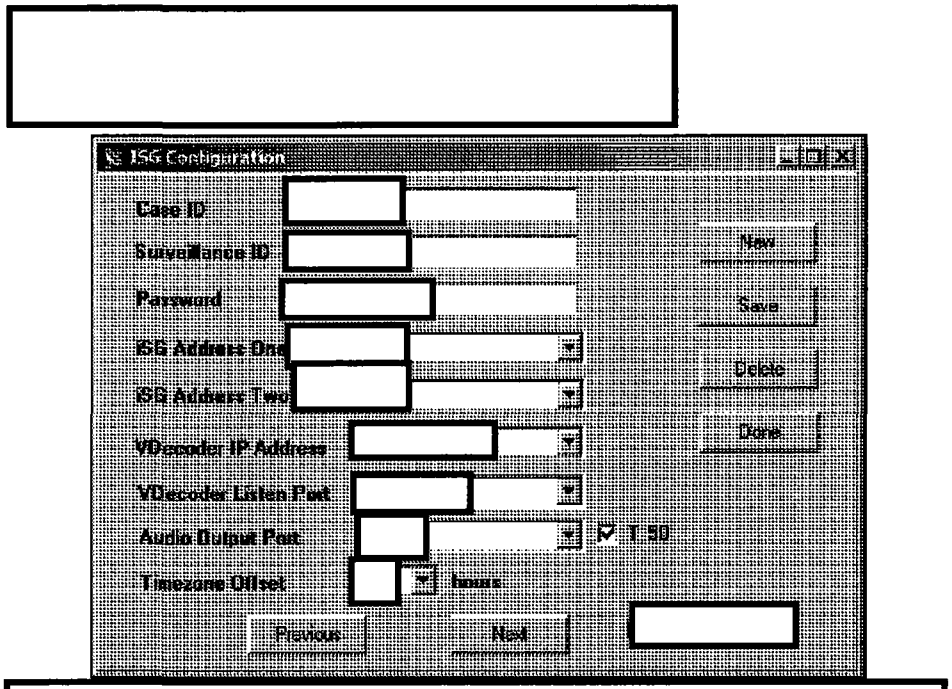
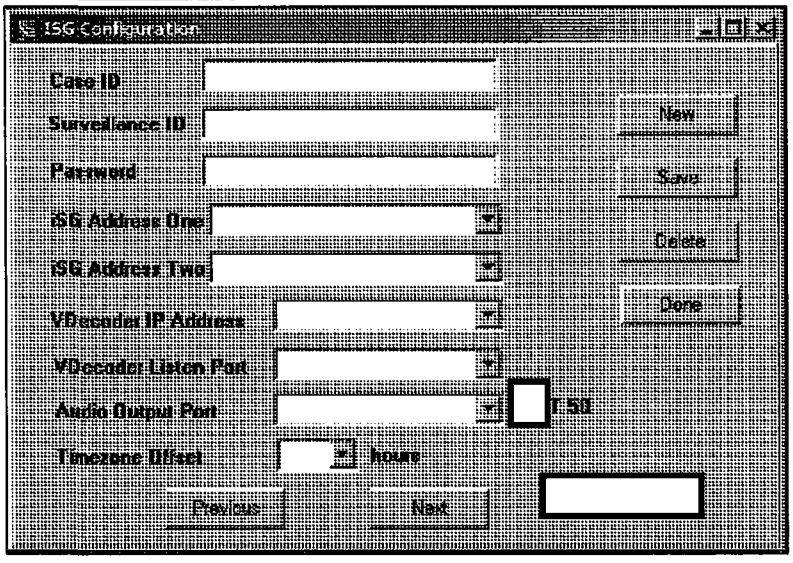
b7E


ISG Configuration
Case ID
Surveillance ID
Password
ISG Address One
ISG Address Two
VDecoder IP Address
VDecoder Listen Port
Audio Output Port
T 50
Timezone Offset
hours
Previous
Next
New
Save
Delete
Done

b2
b7E

- OR -


ISG Configuration
Case ID
Surveillance ID
Password
ISG Address One
ISG Address Two
VDecoder IP Address
VDecoder Listen Port
Audio Output Port
T 50
Timezone Offset
hours
Previous
Next
New
Save
Delete
Done

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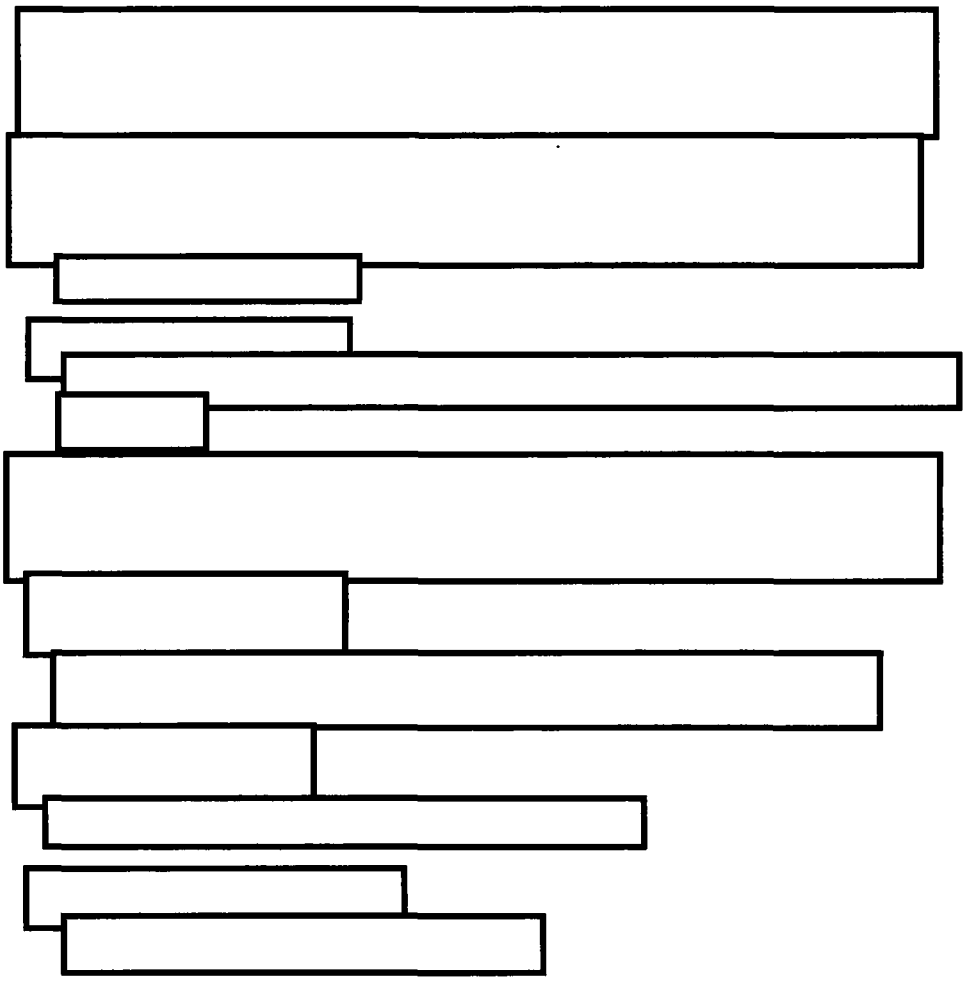
b7E



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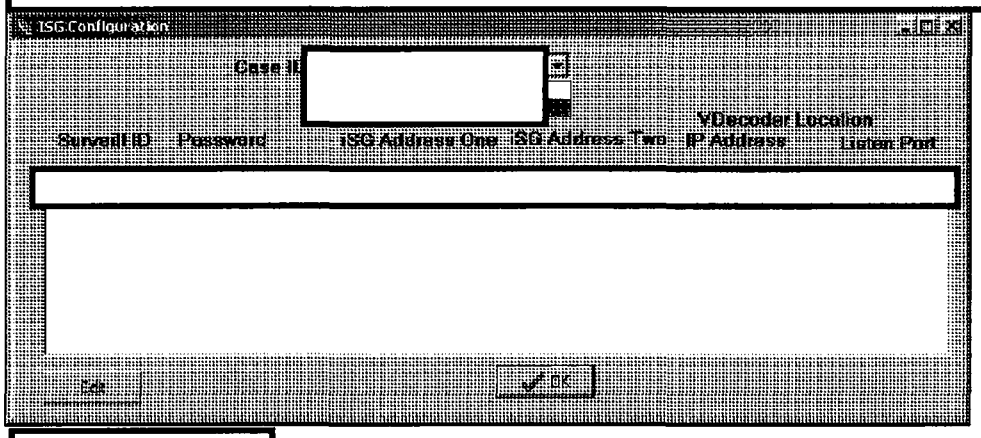
1




b2
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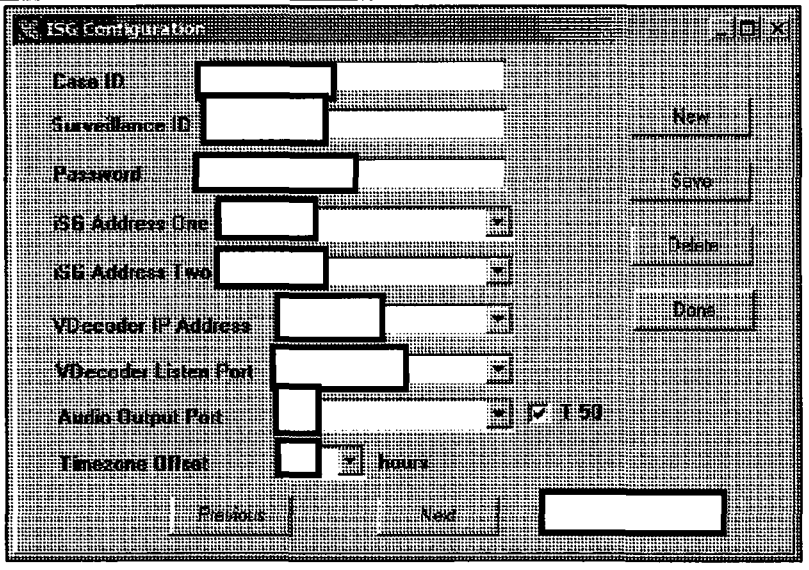
b7C
b7E

2.

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3.

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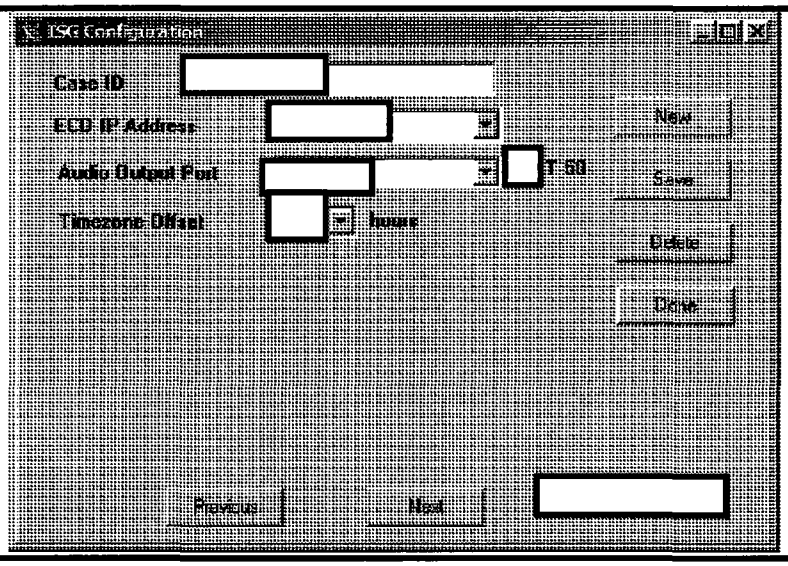


4.

- OR -

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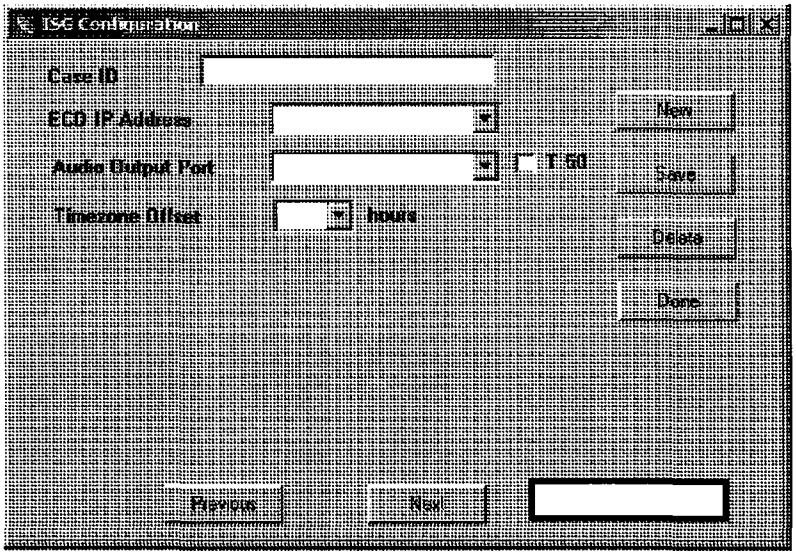
4.



5.

6.

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9.

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10.

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12.

## To remove PTT targets:

1.

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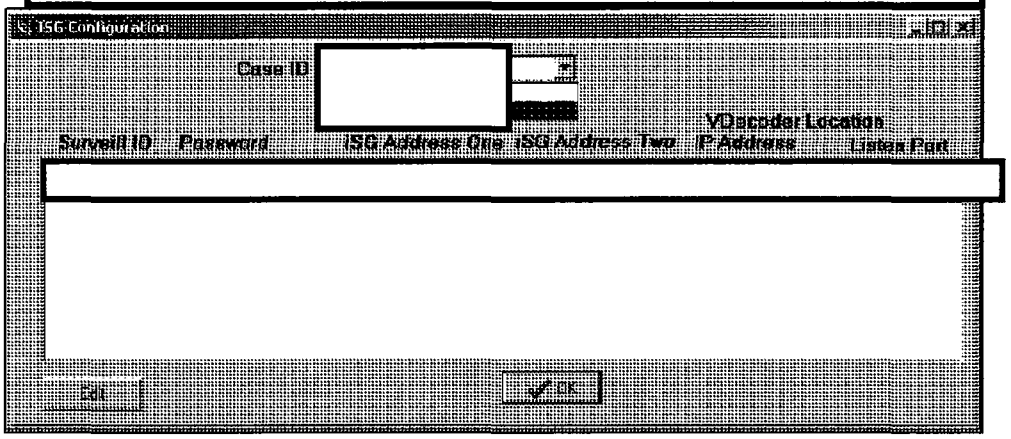


2.

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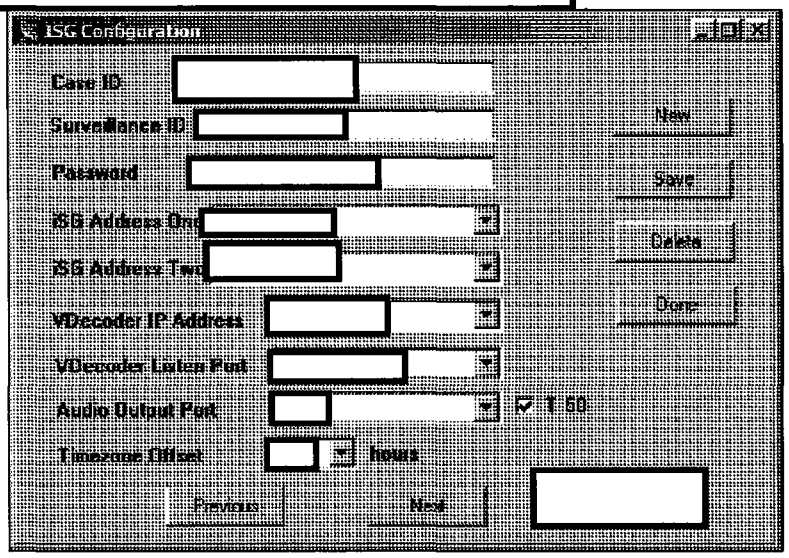
b6
b7C
b7E




**Note:**

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## View and Record PTT Targets Through the DCS Client

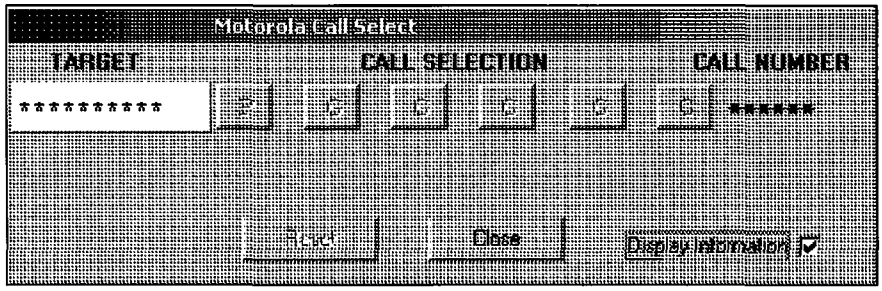


**Figure 4-13: ISG Configuration Detailed Window**

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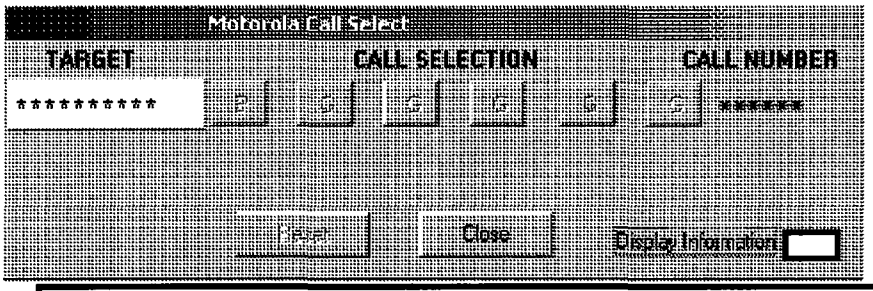
## To view and record active PTT targets:




2.

3.

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4.

**Note:**

## Suspend PTT Data Collections

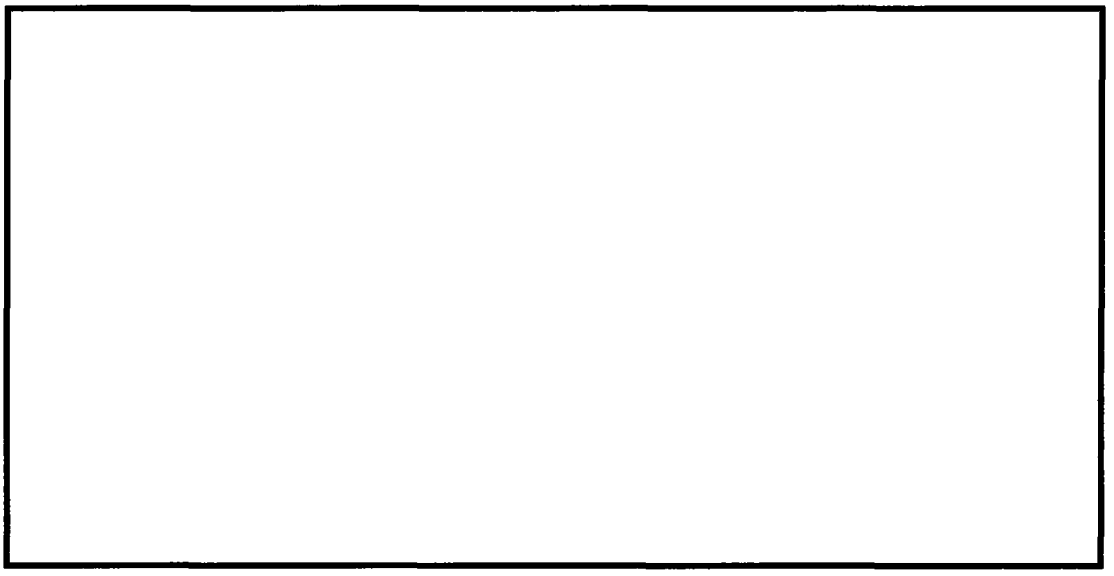
[redacted]

b2
b7E

[redacted]

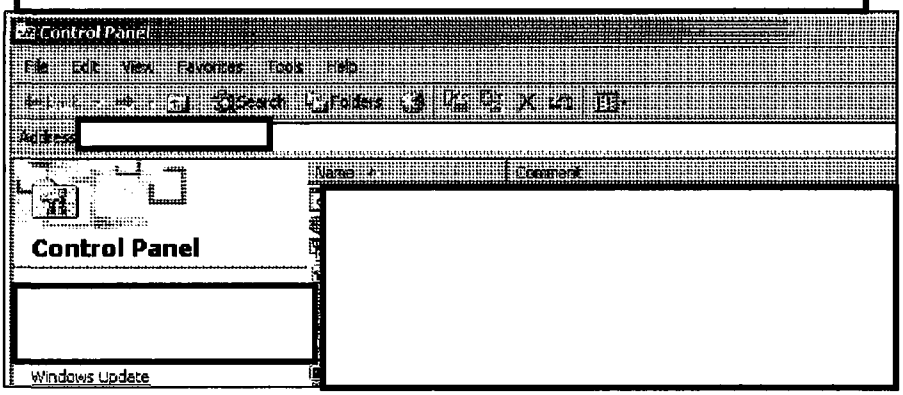
## Configuring the VSELP Decoder

b2
b7E



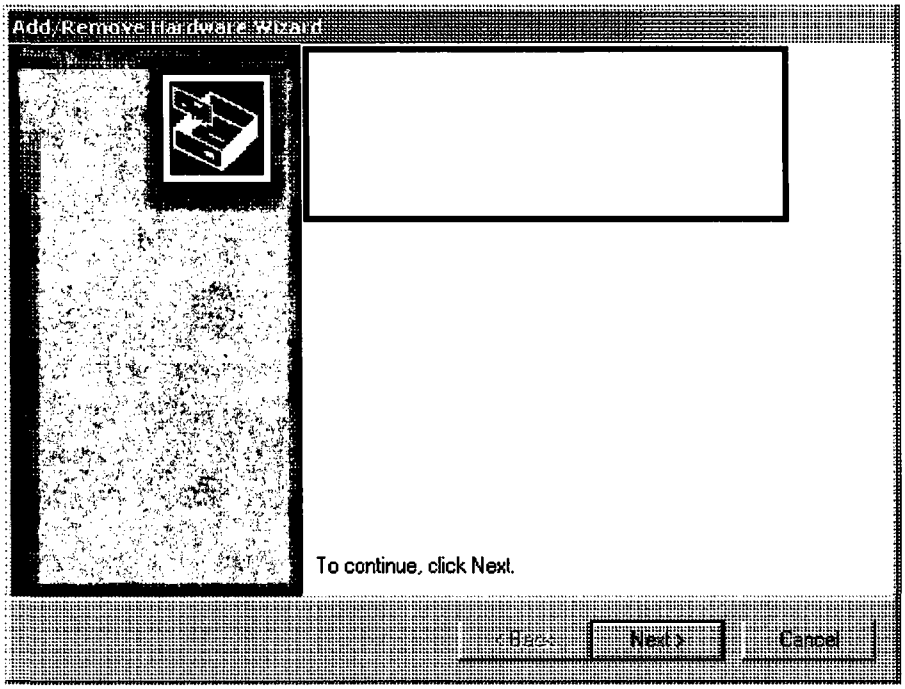
## To install the Motorola VSELP decoder driver for Windows 2000(perform once):

1.

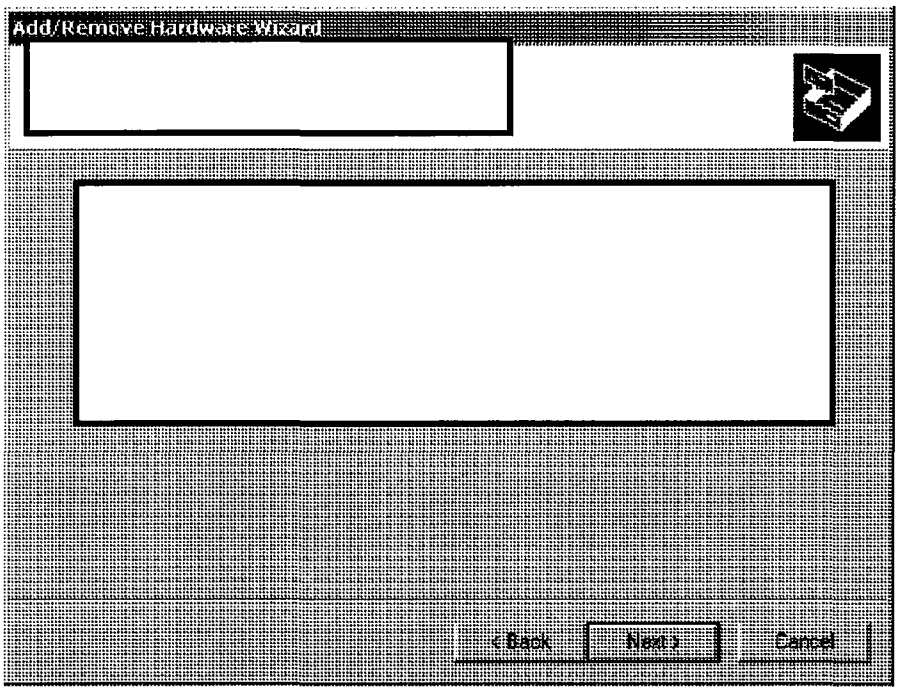



b2
b7E

2.



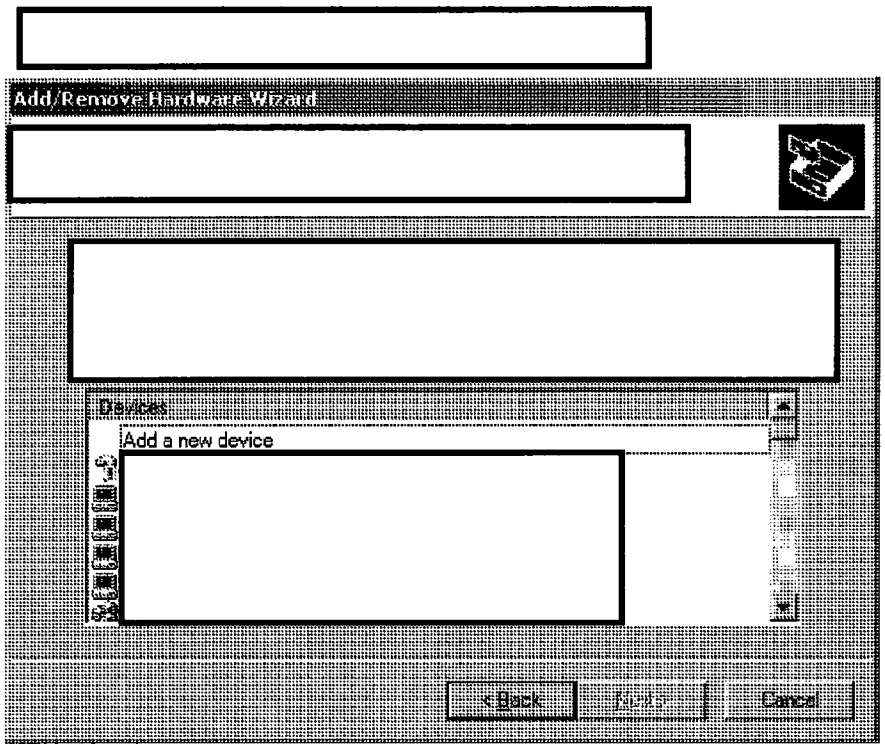
3.


Add/Remove Hardware Wizard
< Back
Next >
Cancel

b2
b7E

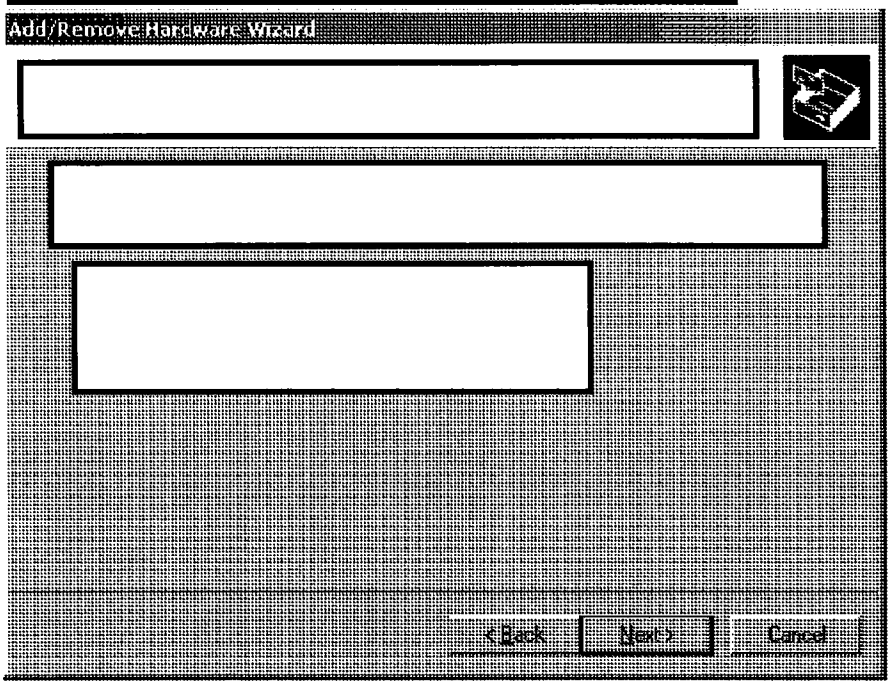
4.

Add/Remove Hardware Wizard

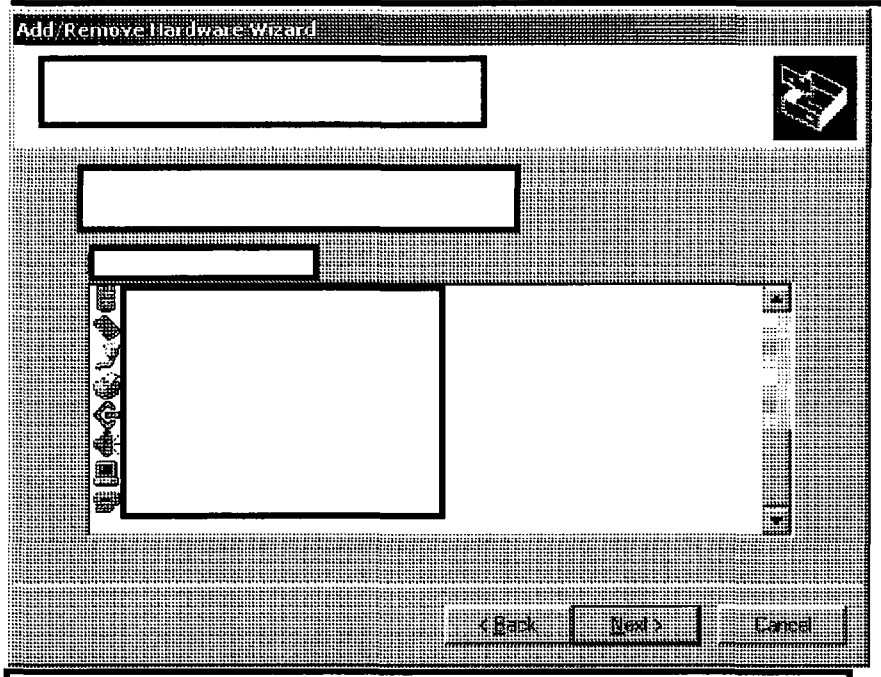

Add/Remove Hardware Wizard
Devices
Add a new device
< Back
Next >
Cancel

b2
b7E

5.

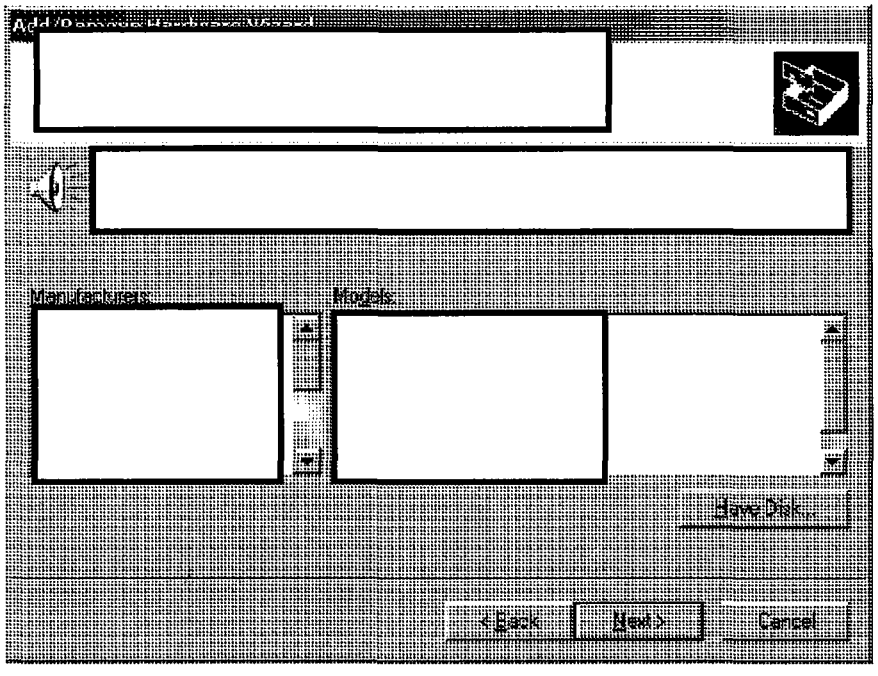

Add/Remove Hardware Wizard
< Back
Next >
Cancel

6.


Add/Remove Hardware Wizard
< Back
Next >
Cancel

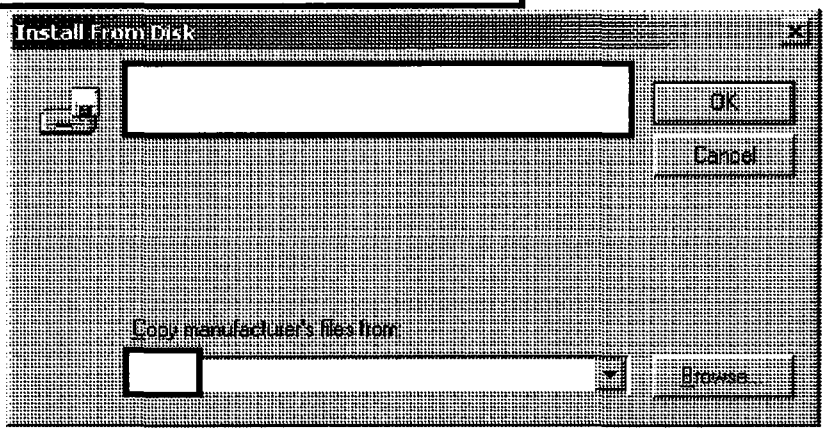
b2
b7E

7.


Manufacturers:
Models:
Have Disk...
< Back
Next >
Cancel

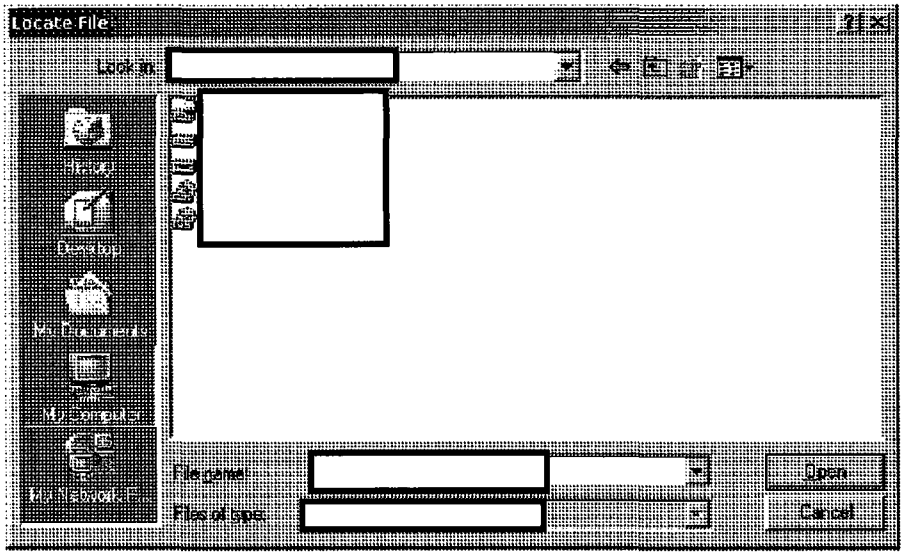
8

9.



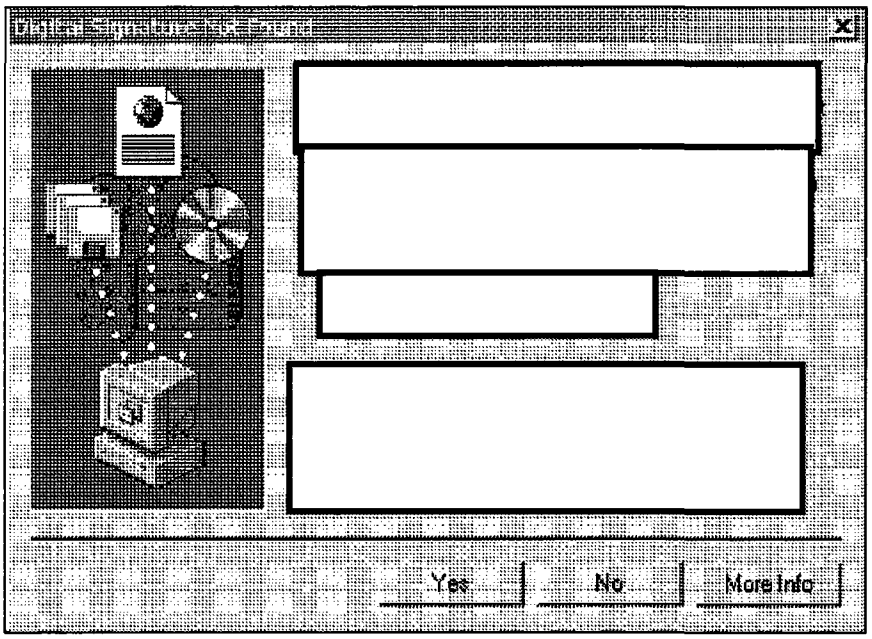

b2
b7E

10



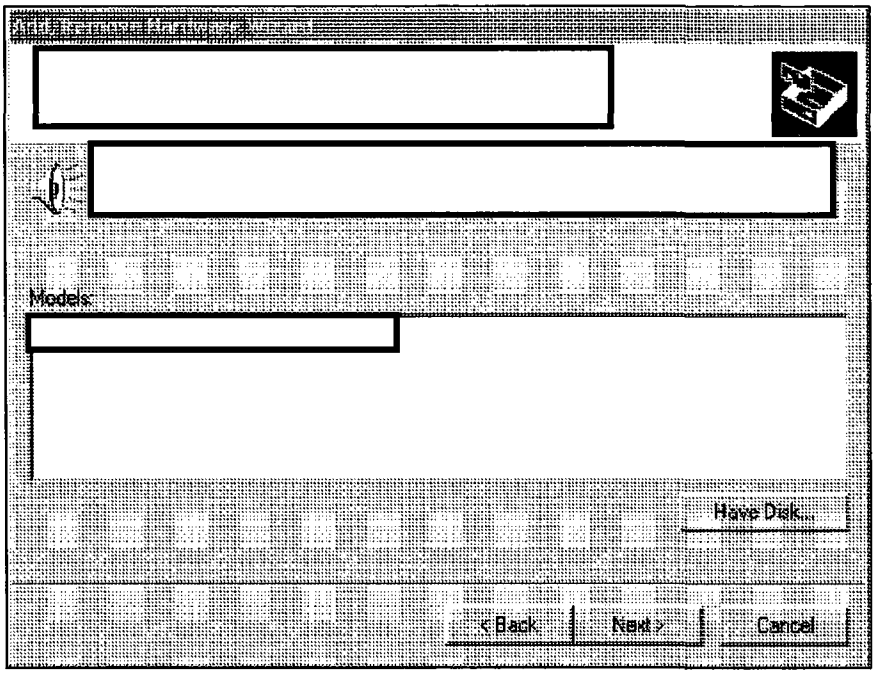

11.

12.

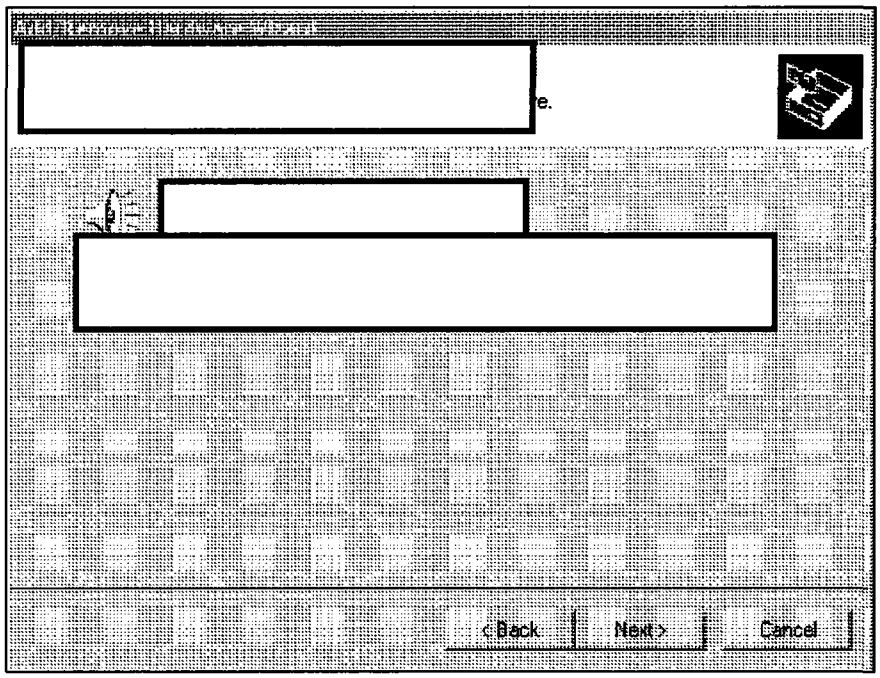



b2
b7E

13

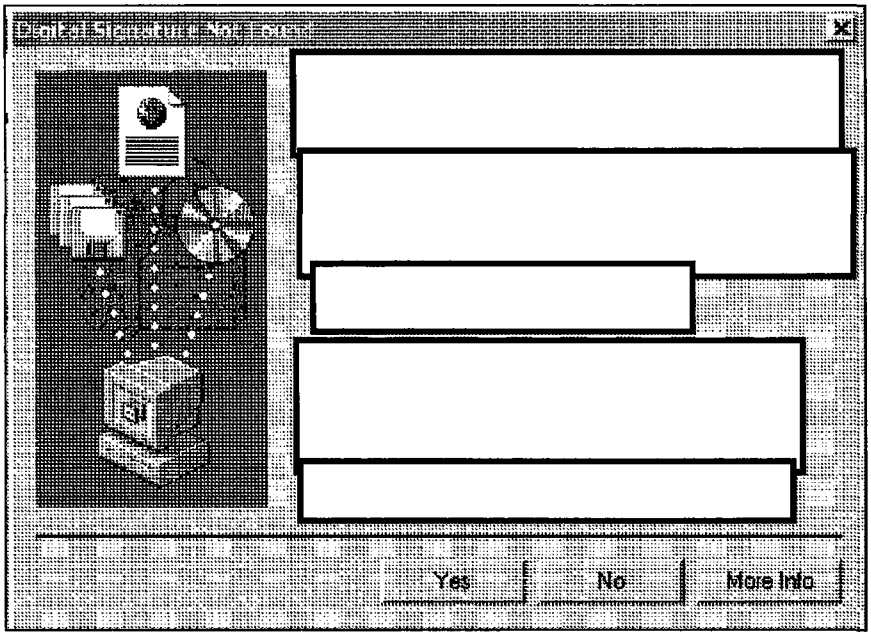


14.

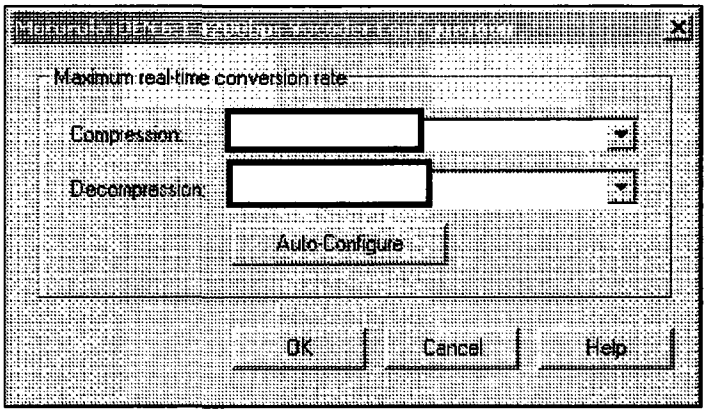



b2
b7E

15.

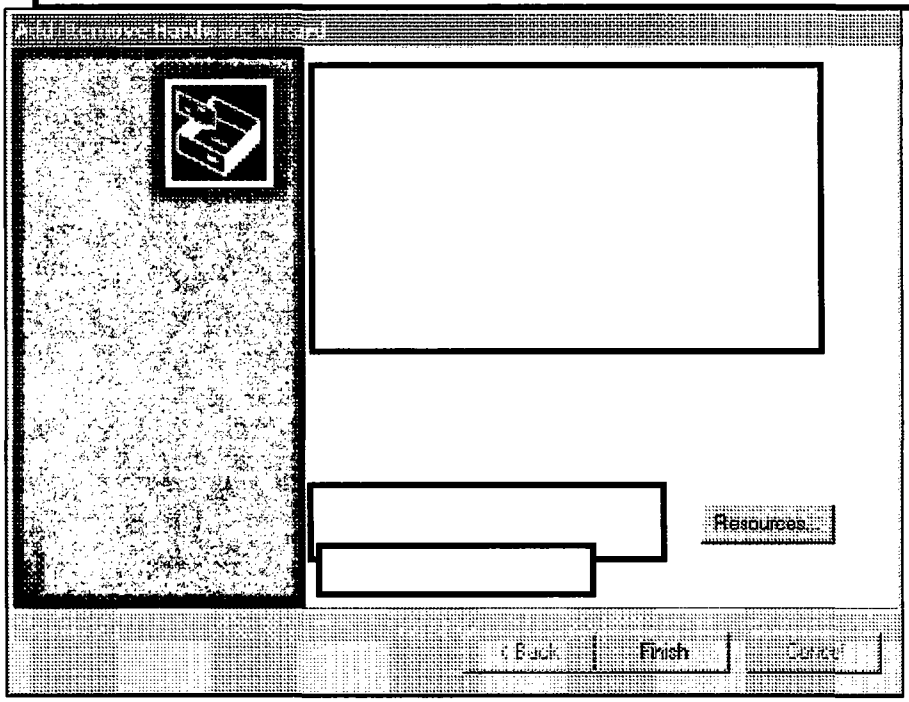


16.

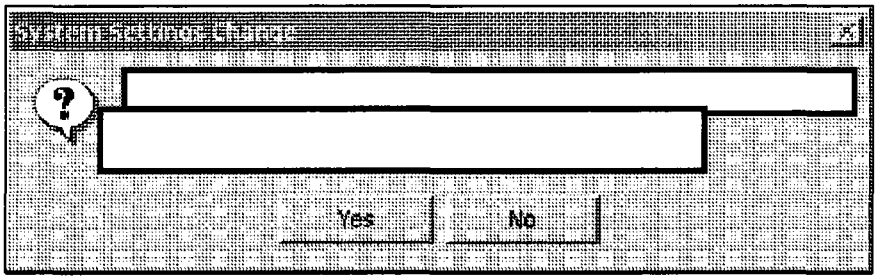

Maximum real-time conversion rate
Compression:
Decompression:
Auto-Configure
OK
Cancel
Help

b2
b7E

17.

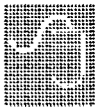

Resources...
Finish

18



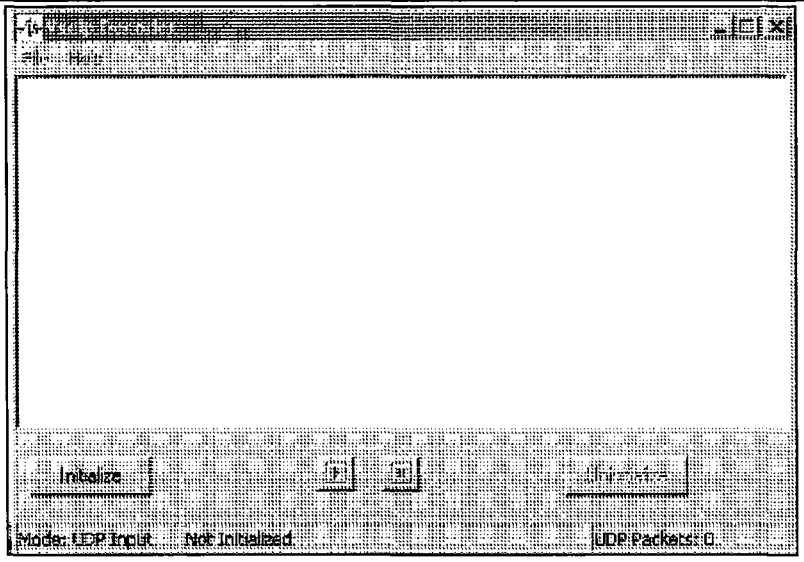

b2
b7E

19



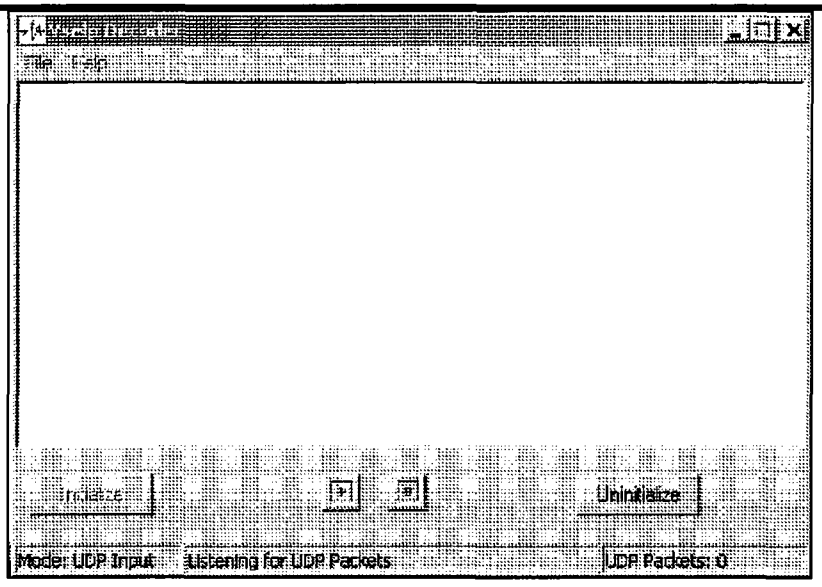
## To initialize the VSELP decoder:

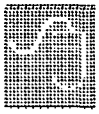
1.



2.

b2
b7E

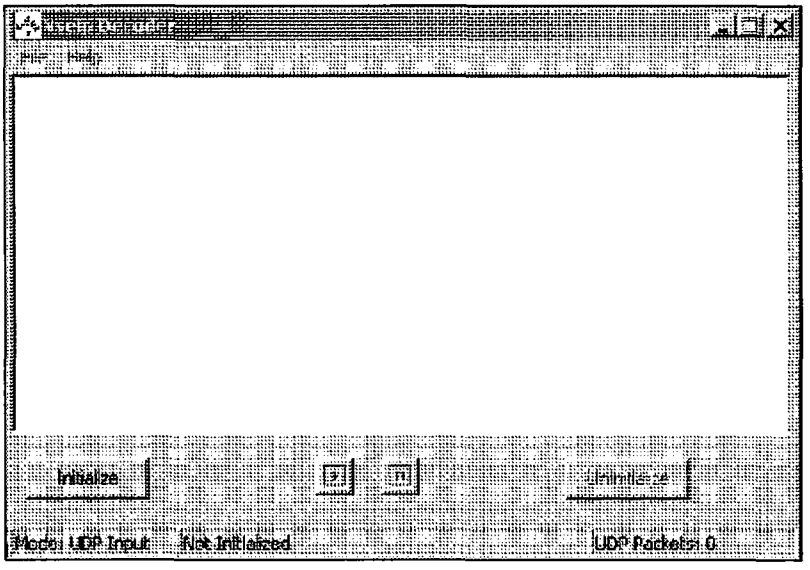


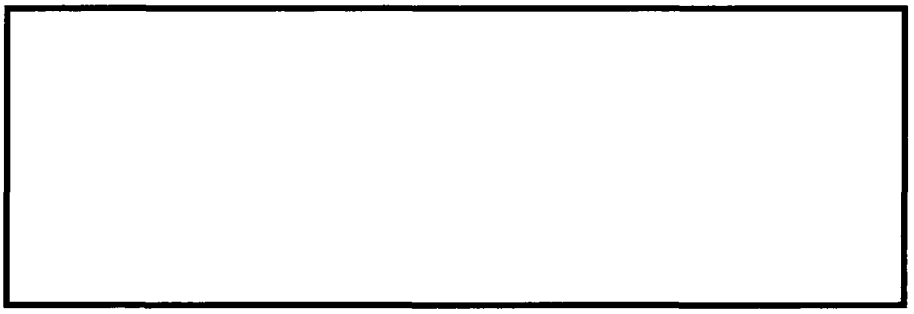
**To un-initialize the VSELP decoder:**

1.

b2
b7E



### To exit the VSELP decoder:

1. 

b2
b7E

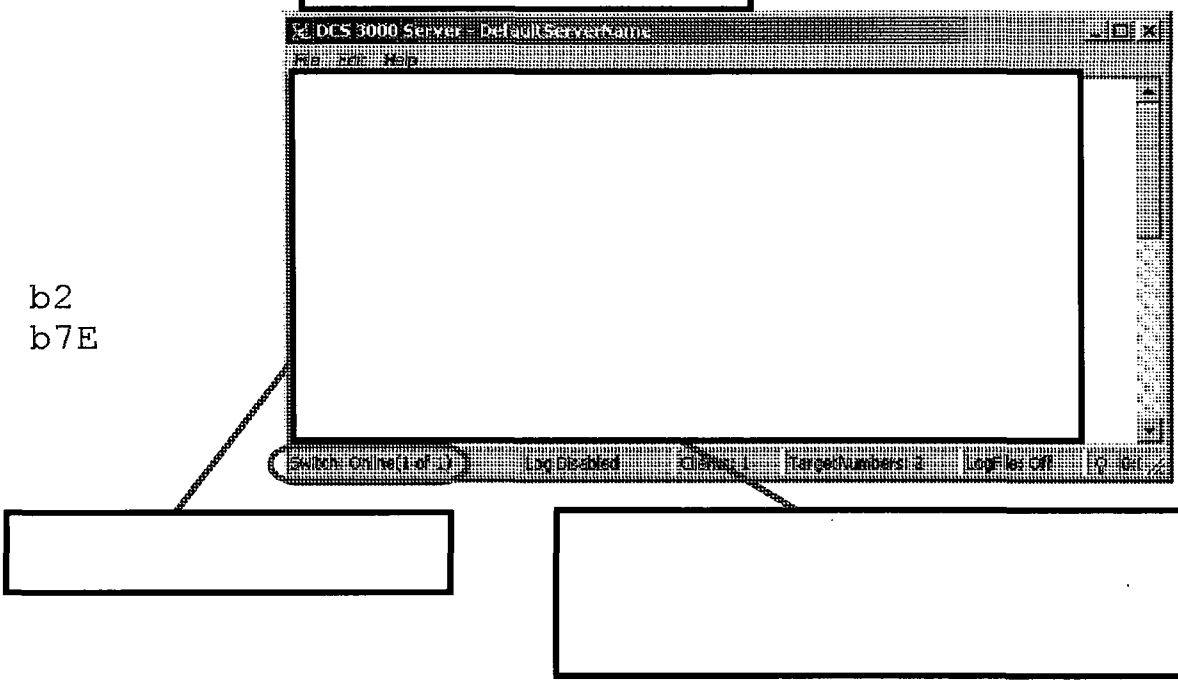
## Establishing a Connection

b2
b7E

**To request a connection to a switch:**

1.

b2
b7E

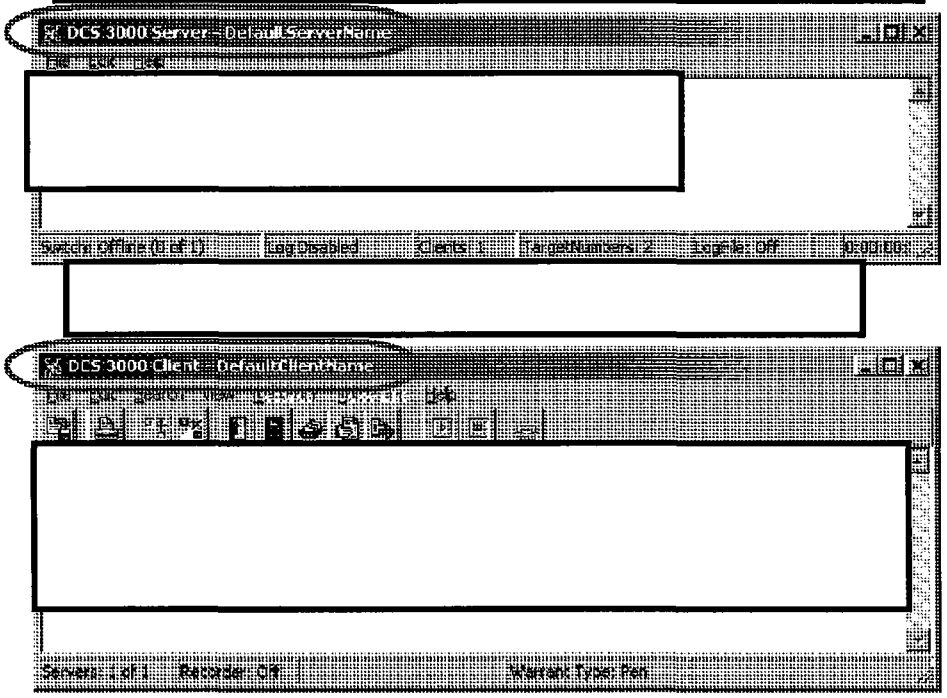


## Connect to the Server

b2
b7E

### To request a connection to the Server:

1.




b2
b7E

## Monitoring Activity

b2
b7E

This table presents common messages from PTT intercepts.

| Message | Explanation |
|---|---|
| [Client Name] Client Connected | |
| [Client Name] Client Disconnected | |
| Switch: Offline | |
| Switch: Online | |
| Switch: Disconnected | |
| Logon for surveillance id ## case id ### was successful | |
| [IP address] Connection to iSG established | |
| Link Config Request sent to iSG<br>Link Config Accept Received from iSG<br>Link Status Timeout period<br>Sent Message: Informational Message | |
| Connection to iSG Established | |
| Logon for surveillance id ## case id ### was successful | |
| Error in iSG Connection: Connection refused | |

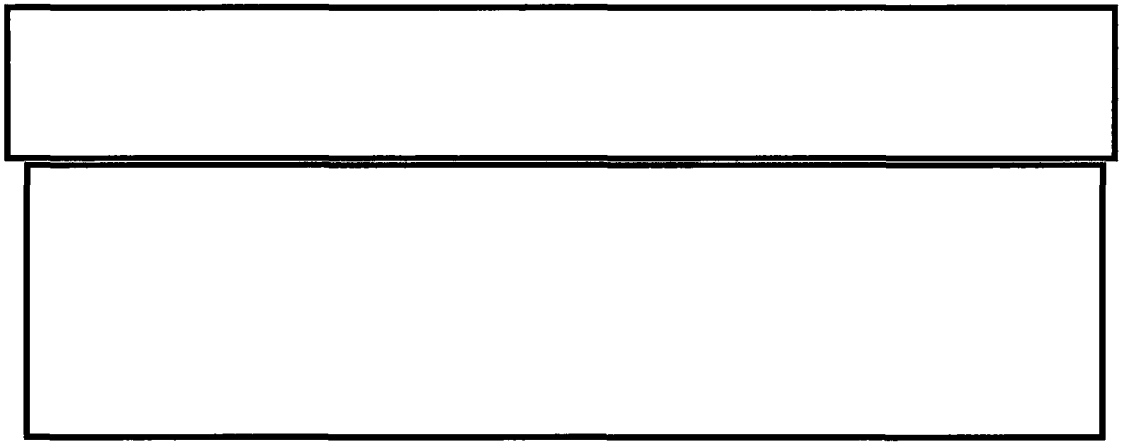
b2
b7E

| Message | Explanation |
|---|---|
| Error in iSG connection: Software cased connection abort | |
| Server Connection to iSG is Alive | |
| Received VSELP packets from iSG NO PACKETS RECEIVED | |
| Received VSELP packets from iSG at (Server time and date) | |
| Routed VSELP packets to Decoder at (Server time and date) | |
| Routed VSELP packets to Decoder NO PACKETS ROUTED | |
| Sent Message: | |
| MOTOROLA PRIVATE CALL STARTED | |
| MOTOROLA GROUP CALL STARTED | |

b2
b7E

## Storing Target Data Files

b2
b7E



## Shutdown the DCS Server

b2
b7E

### To shut down the Server:

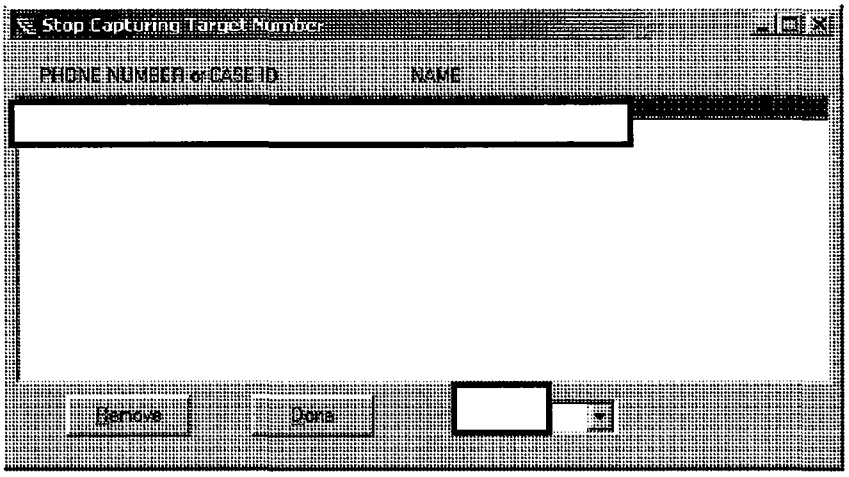
1

**Note:**

### Removing Targets from the DCS Client:

1.

b2
b6
b7C
b7E



2. [redacted]

Note: [redacted]

3. [redacted]

b2
b7E

Note: [redacted]

# Quick Steps: DCS Server (PTT Calls)

## *Working in the Server Window*

**To clear detail messages from the Server window:**

**To cut a text selection:**

**To copy a text selection:**

**To cut all text:**

**To copy all text:**

b2
b7E

## *Configuring the Server*

**To set up the Server for a PTT intercept:**

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.

b2
b7E

12.
13.
14.
15.
16.
17.
18.

## *Configuring the Client*

**To identify PTT targets:**

b2
b7E

1.
2.
3.
3.
4.
5.
6.
7.
8.
9.
10.
11.

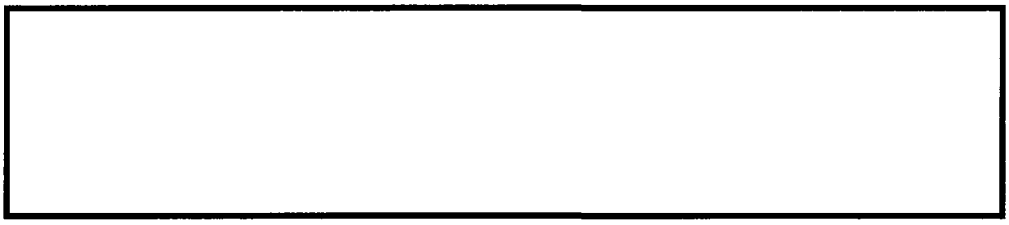
**To identify [redacted] targets:**

b2
b7E

1.
2.
3.
4.
4.
5.
6.
7.
8.
9.

**To remove PTT targets:**

b2
b7E

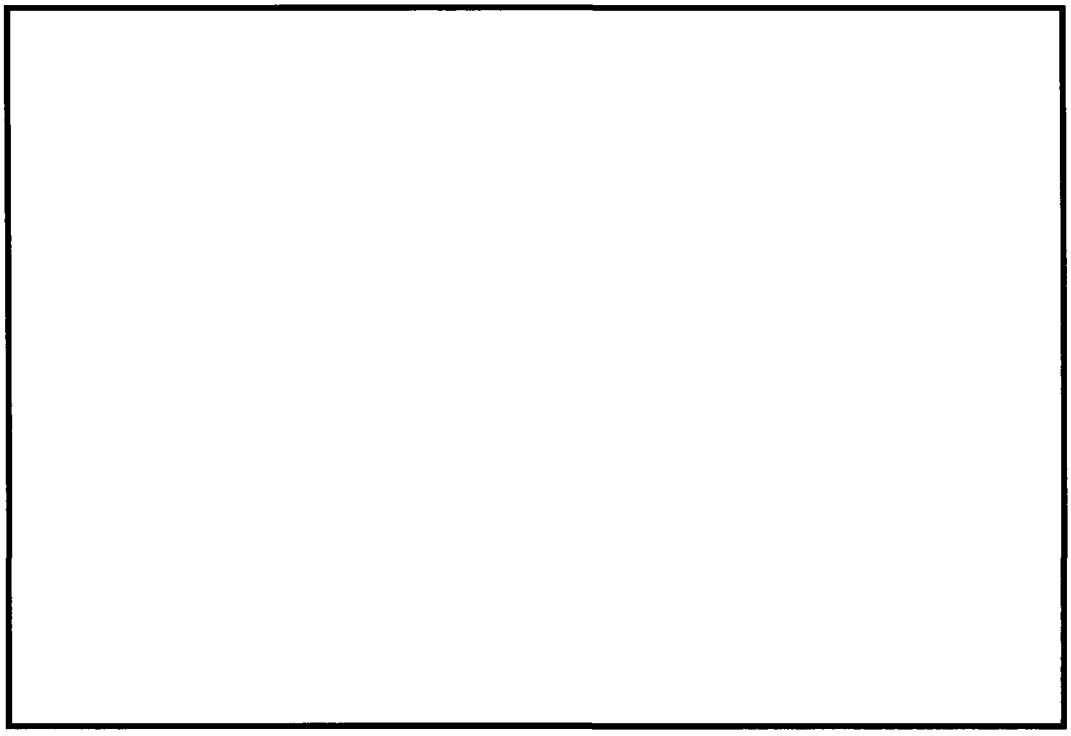


**To view and record active PTT targets:**

## *Configuring the VSELP Decoder*

**To install the Motorola VSELP Decoder Driver (need to perform once):**

b2
b7E



**To initialize the VSELP Decoder:**

[redacted]

**To un-initialize the VSELP decoder:**

[redacted]

b2
b7E

**To exit the VSELP decoder:**

[redacted]

## *Establishing a Connection*

**To request a connection to the switch:**

[redacted]

**To request a connection to the Server:**

[redacted]

b2
b7E

## *Shutting Down the DCS Server*

**To shut down the Server:**

[redacted]

**To remove a target from the DCS Client:**

[redacted]

# Data Collection System (DCS) 3000

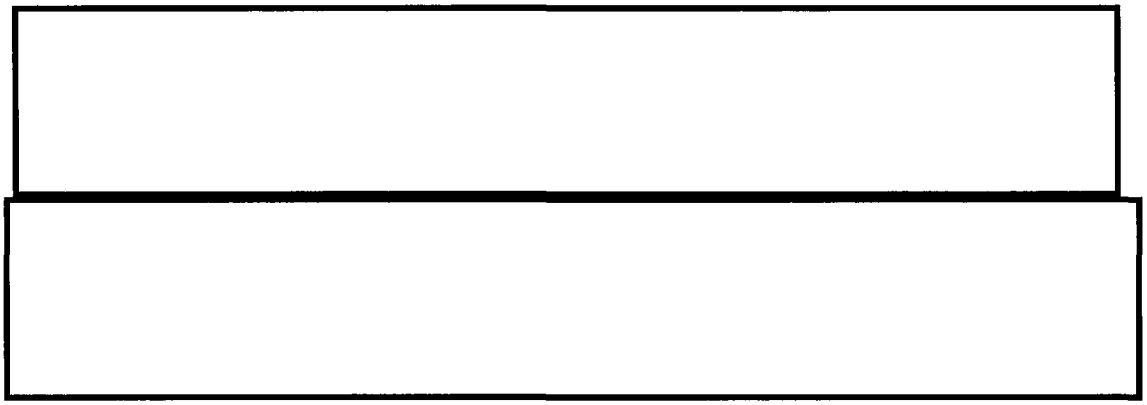
# User Guide

# Chapter 5

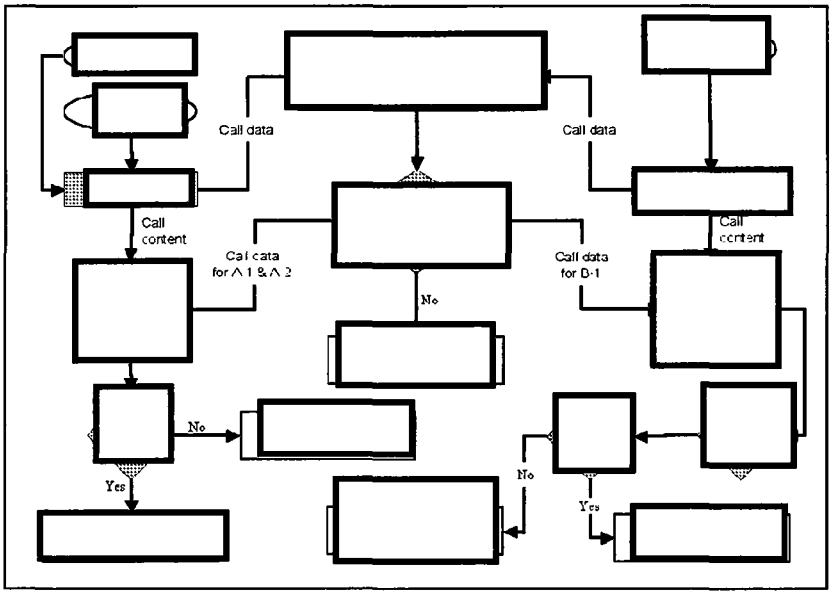
Software Version Numbers: MultiServer V 1.6J

## Background: DCS MultiServer

b2
b7E



ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-22-2007 BY 65179 DMH/TAM/KSR/cb



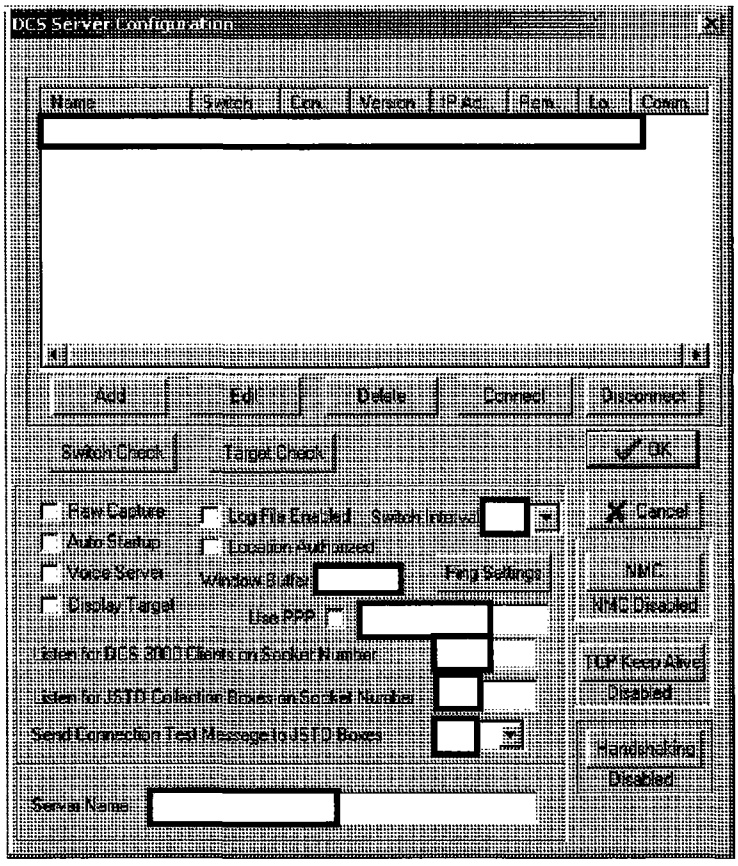

b2
b7E

**Figure 5-1: MultiServer Data Filtering and Routing**

b2
b7E

# MultiServer Settings and Options

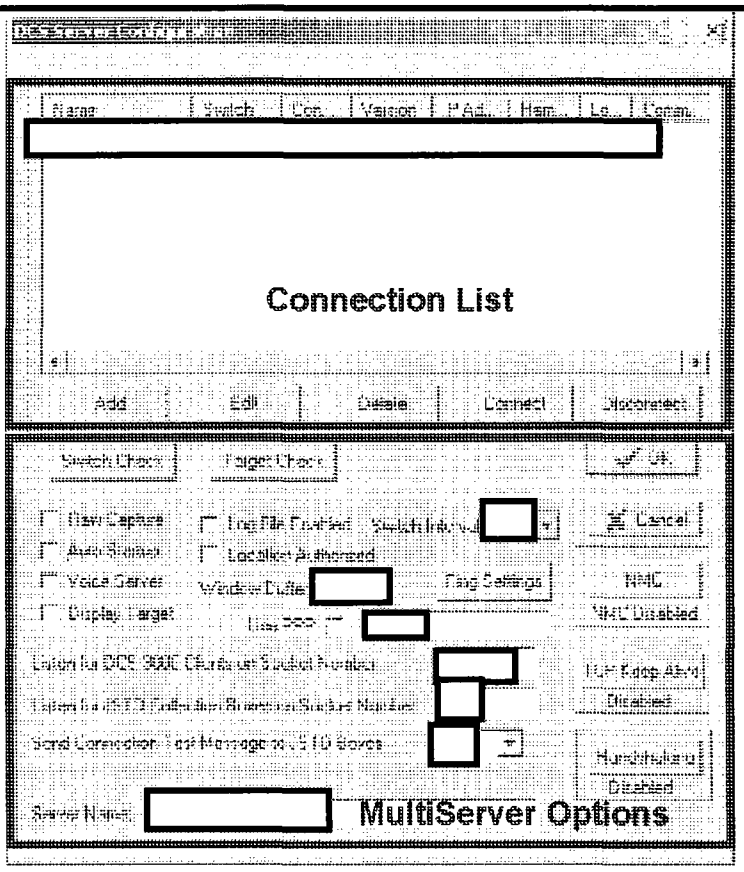
b2
b7E




b2
b7E

**Figure 5-2: DCS MultiServer Configuration Window**

b2
b7E




b2
b7E

**Figure 5-3: DCS MultiServer Configuration Window with Labeled Settings**

The settings and options section of this chapter are presented in the following order:

- MultiServer Options
- Connection List

## MultiServer Options

b2
b7E

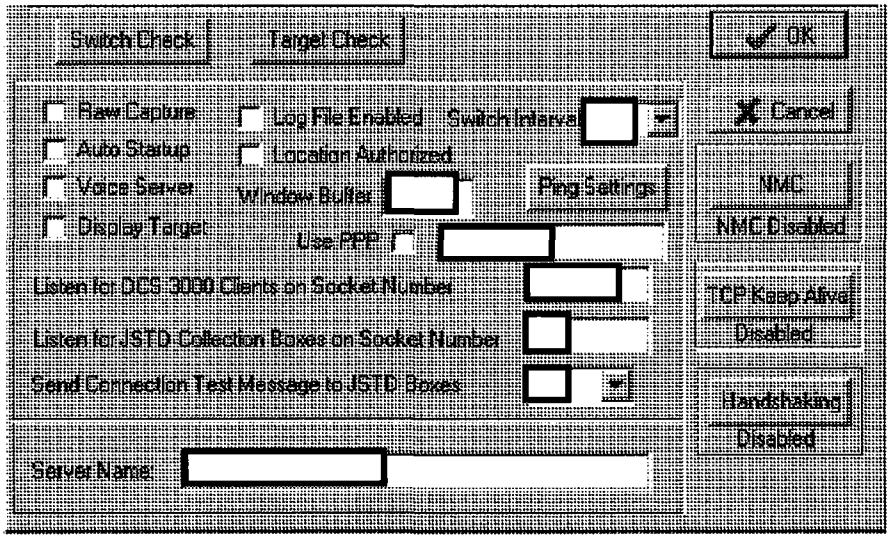
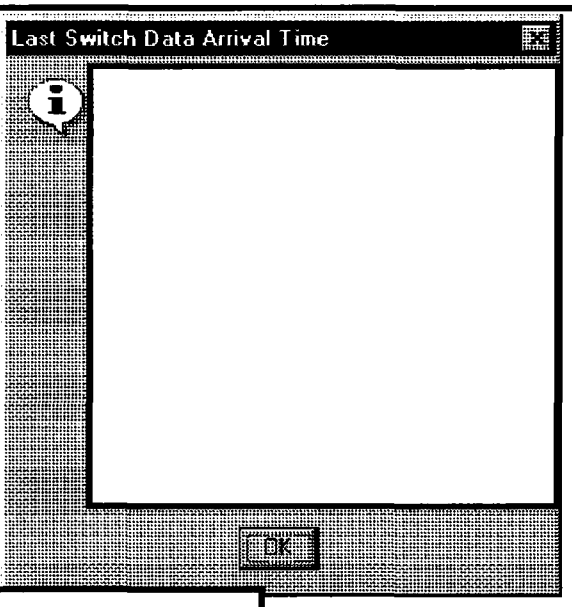
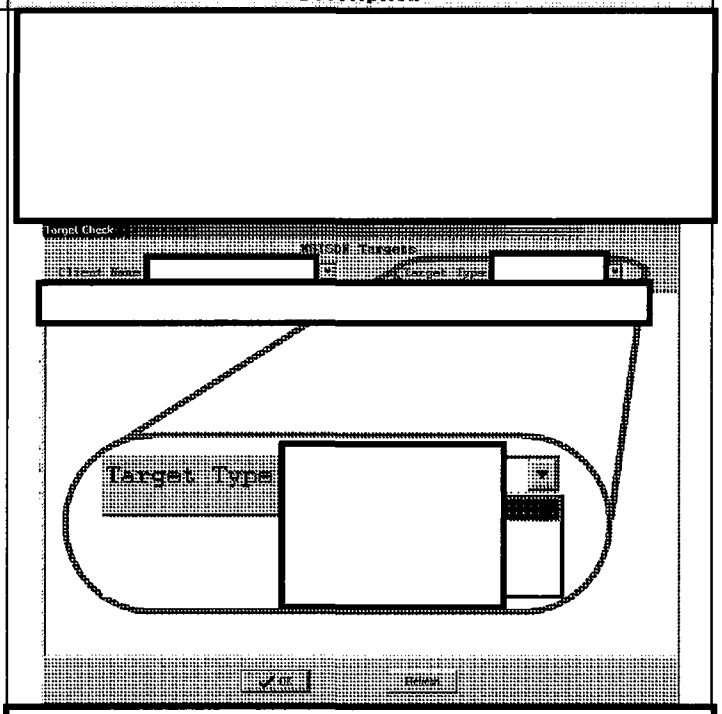
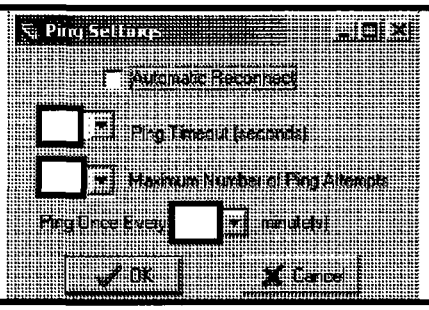
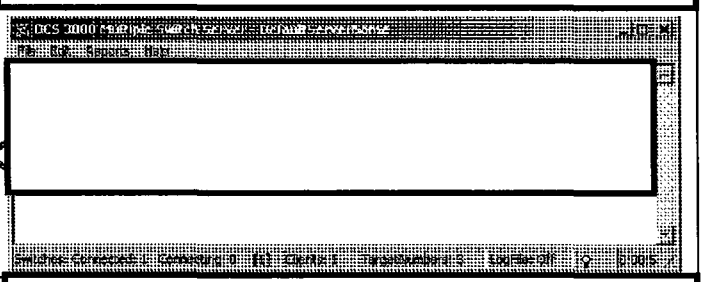


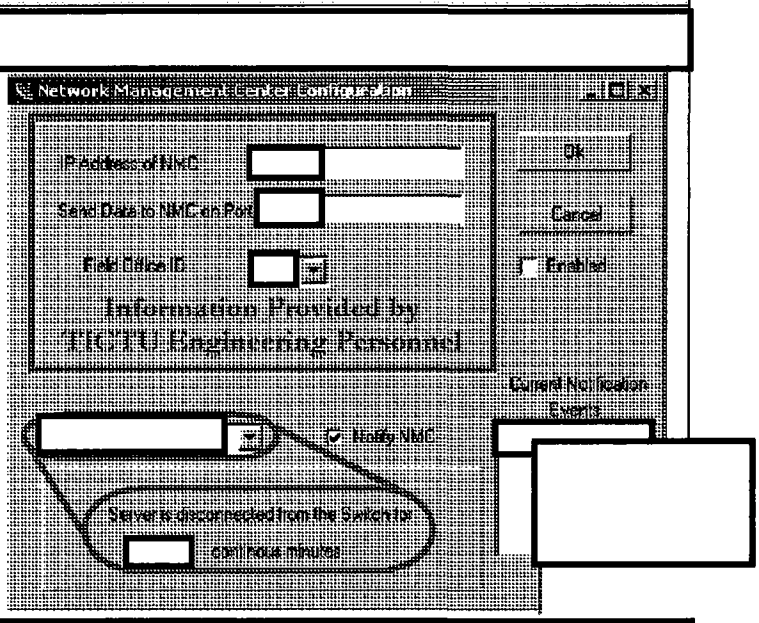

**Figure 5-4: DCS MultiServer Configuration Window - MultiServer Options**

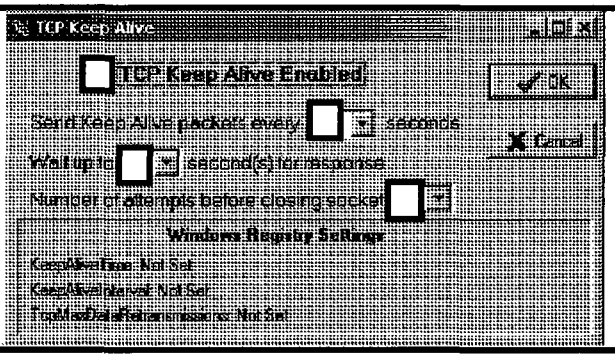
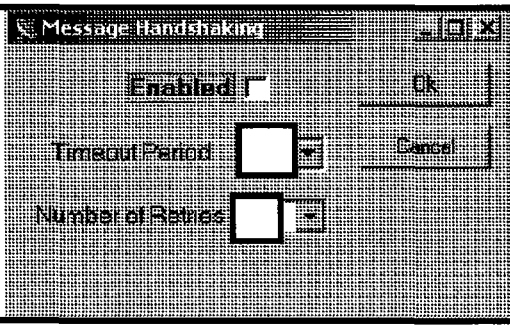
This table describes the global MultiServer Options.

| Option | Description |
|---|---|
| Switch Check | |
| *Last Switch Data Arrival Time Window* |  |
| b2<br>b7E | |
| Target Check | |

| Option | Description |
|---|---|
| *Target Check Window*<br><br>b2<br>b7E |  |
| Raw Capture | |
| Auto Startup | |
| Voice Server | |
| Display Target | |
| Log File Enabled | |
| Location Authorized | |
| Window Buffer | |
| Use PPP | |
| Switch Interval | |
| Ping Settings | |

| Option | Description |
|---|---|
| *Ping Settings Window*<br><br>b2<br>b7E |  |
| Listen for DCS 3000 Clients on Socket Number | |
| Listen for JSTD Collection Boxes on Socket Number | |
| Send Connection Test Message to JSTD Boxes<br><br>b2<br>b7E |  |
| Server Name: | |
| OK | |
| Cancel | |
| NMC | |

| Option | Description |
|---|---|
| *Network Management Center Configuration Window* |  |
| b2<br>b7E | |
| b2<br>b7E | |
| TCP Keep Alive | |

| Option | Description |
|---|---|
| *TCP Keep Alive Window*<br><br>b2<br>b7E |  |
| Handshaking<br>*Message Handshaking Window*<br><br>b2<br>b7E |  |

## Connection List

b2
b7E

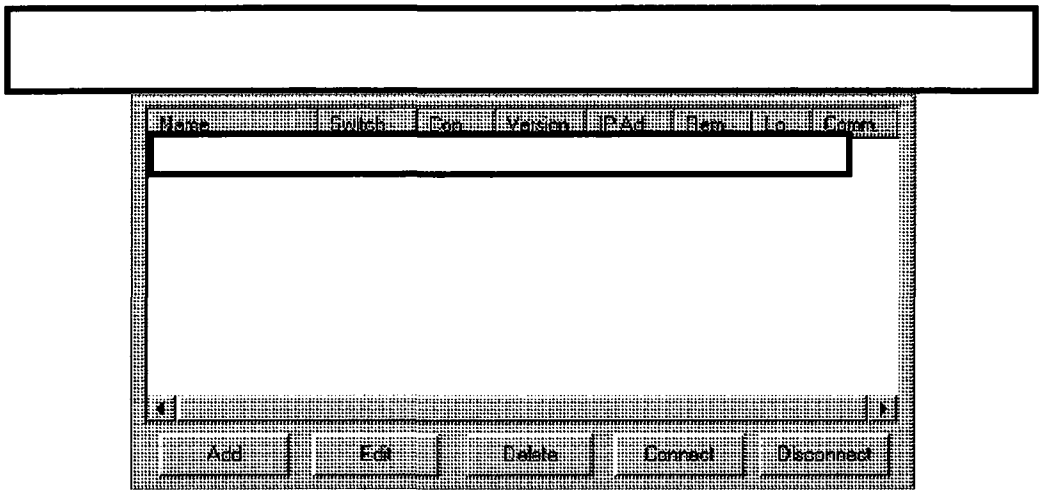



**Figure 5-5: DCS MultiServer Configuration Window - Connection List Main Display**

b2
b7E

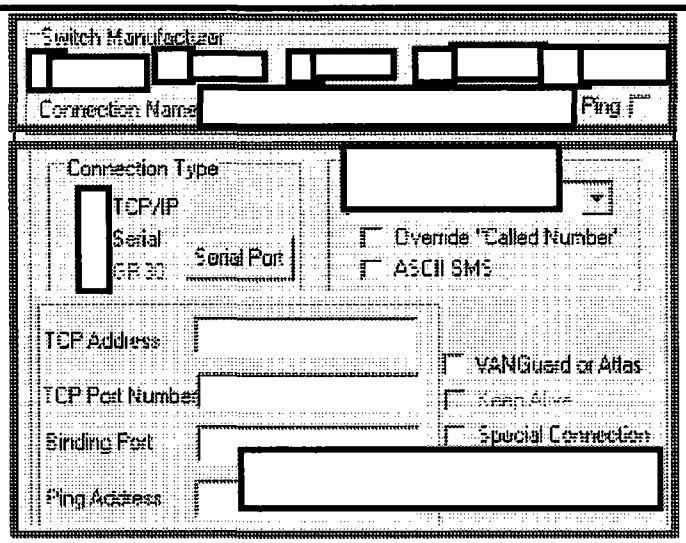



**Figure 5-6: MultiServer Connection List - Sub-Categories**

Descriptions of the features for switch configuration, are presented in the following order:

- Connection List Main Display
- Switch Manufacturers
- Switch-Specific Settings

## Connection List Main Display

b2
b7E

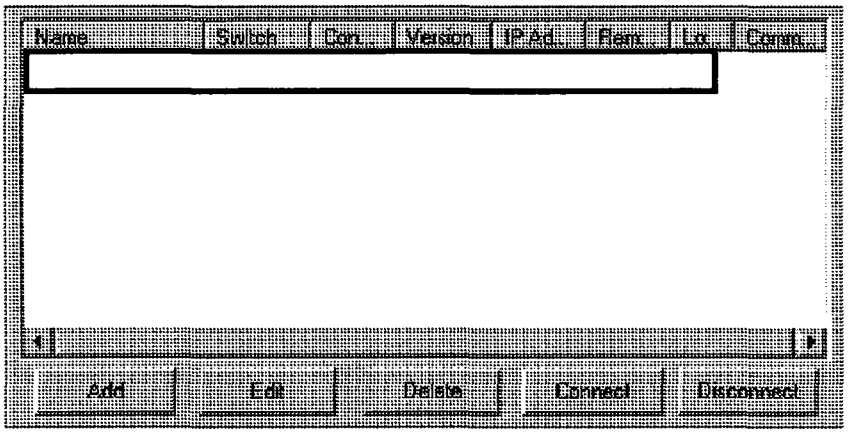
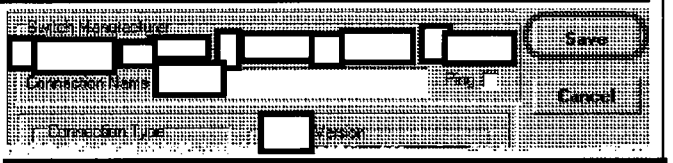
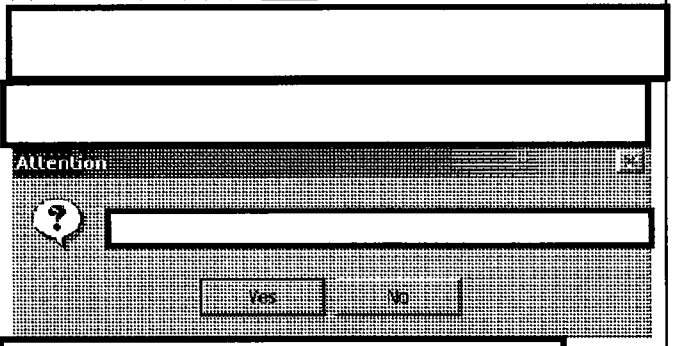
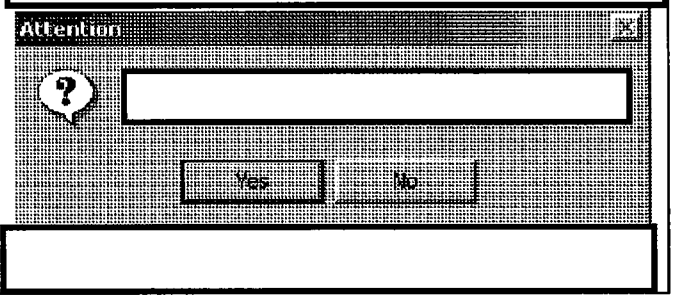


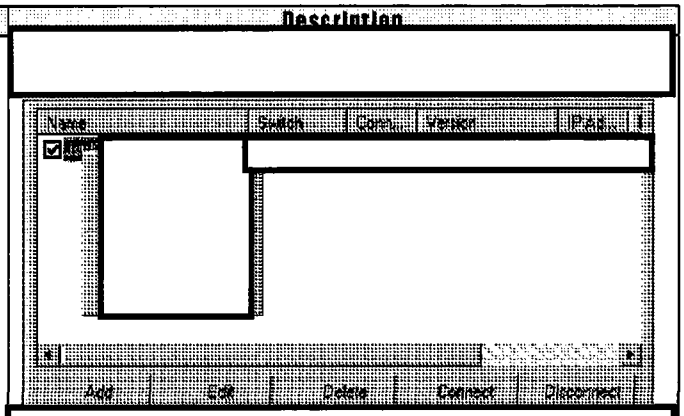

**Figure 5-5: MultiServer Connection List – Mail Display (see page 5-11)**

This table describes the MultiServer Connection List.

b2
b7E

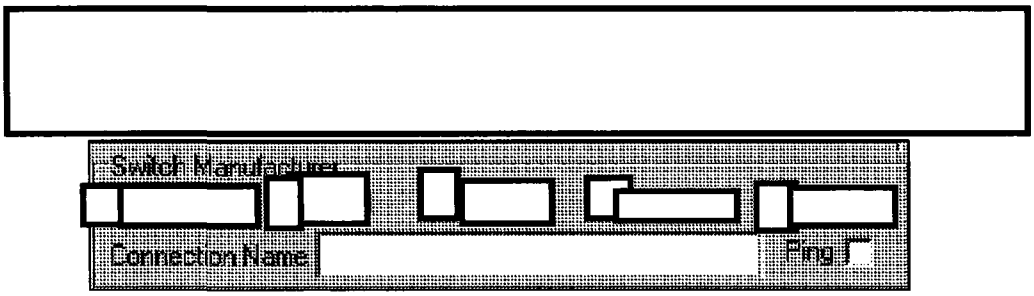
| Option | Description |
|---|---|
| Connection List | |

| Option | Description |
| --- | --- |
| Add | |
| b2<br>b7E | |
| Edit |  |
| Delete<br>b2<br>b7E |  |
| Connect | |
| Connection Reset | |
| Disconnect |  |

| Option | Description |
| --- | --- |
| Short-cut (Right Click Mouse) |  |

b2
b7E

## Switch Manufacturers




b2
b7E

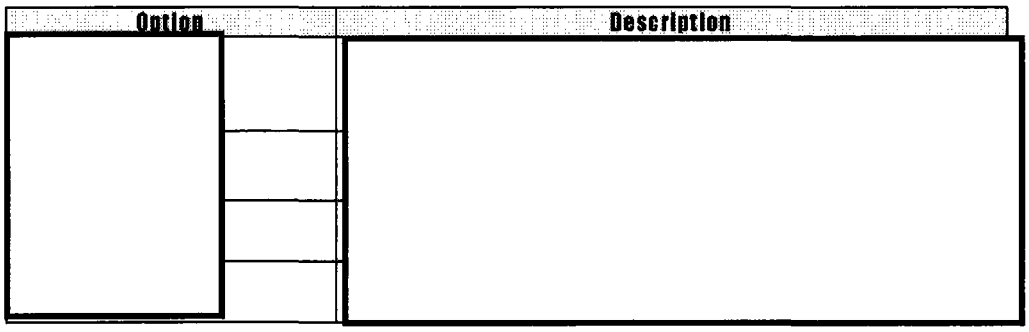
**Figure5-7: Switch Manufacturer Options**

This table describes the MultiServer Switch Manufacturers.

| Option | Description |
| --- | --- |
| | |

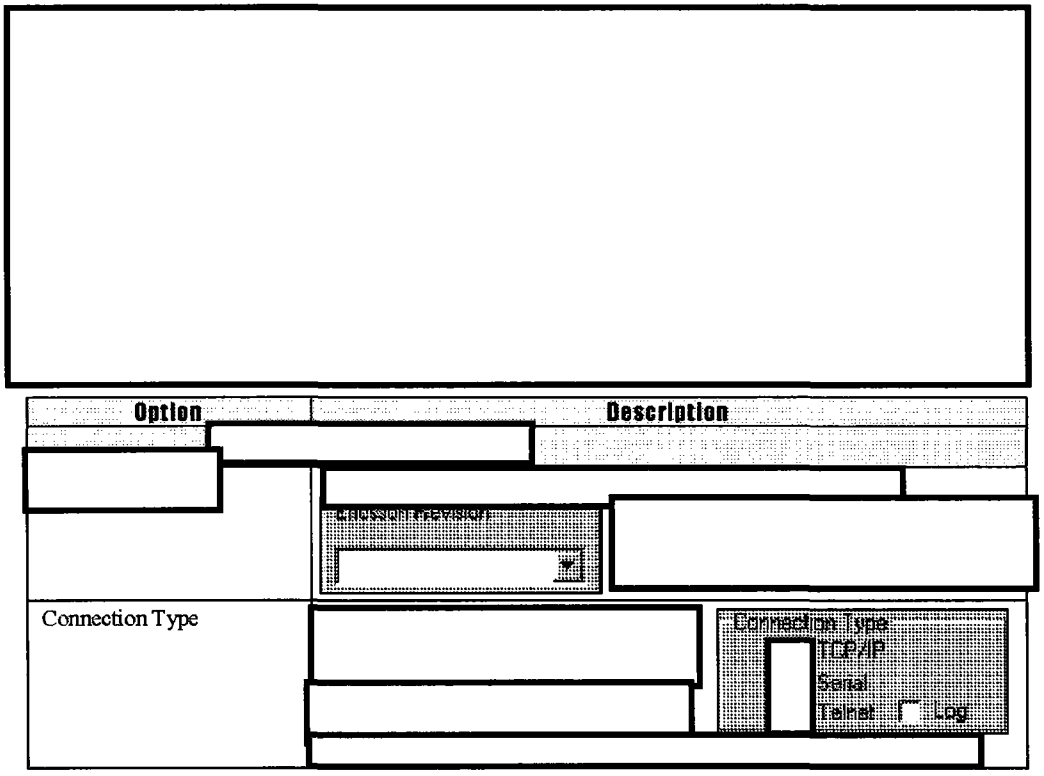
b2
b7E

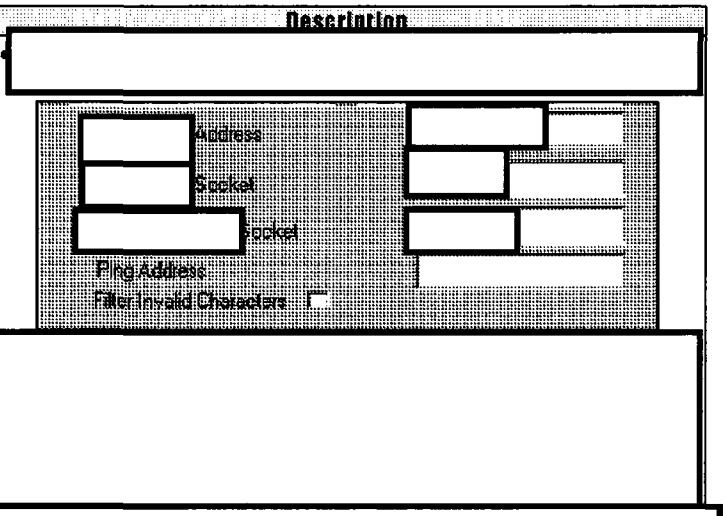
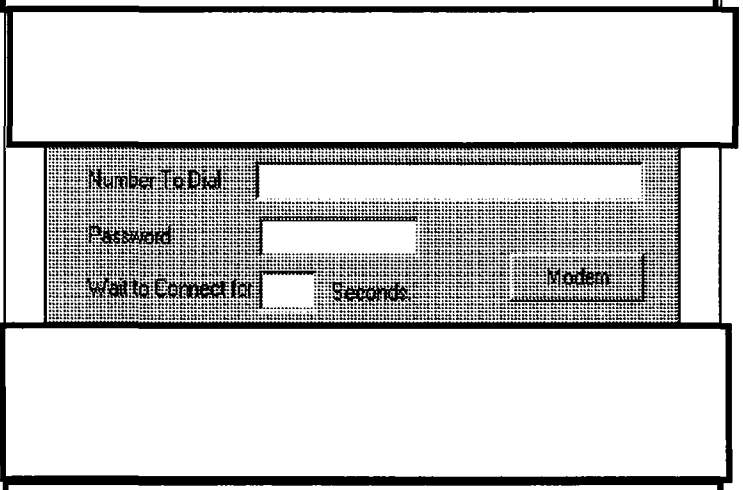
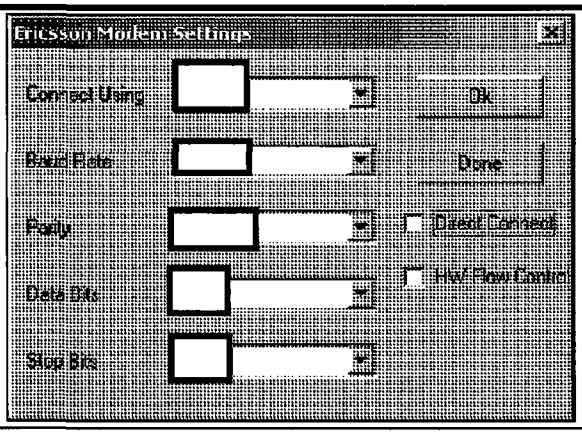
b2
b7E



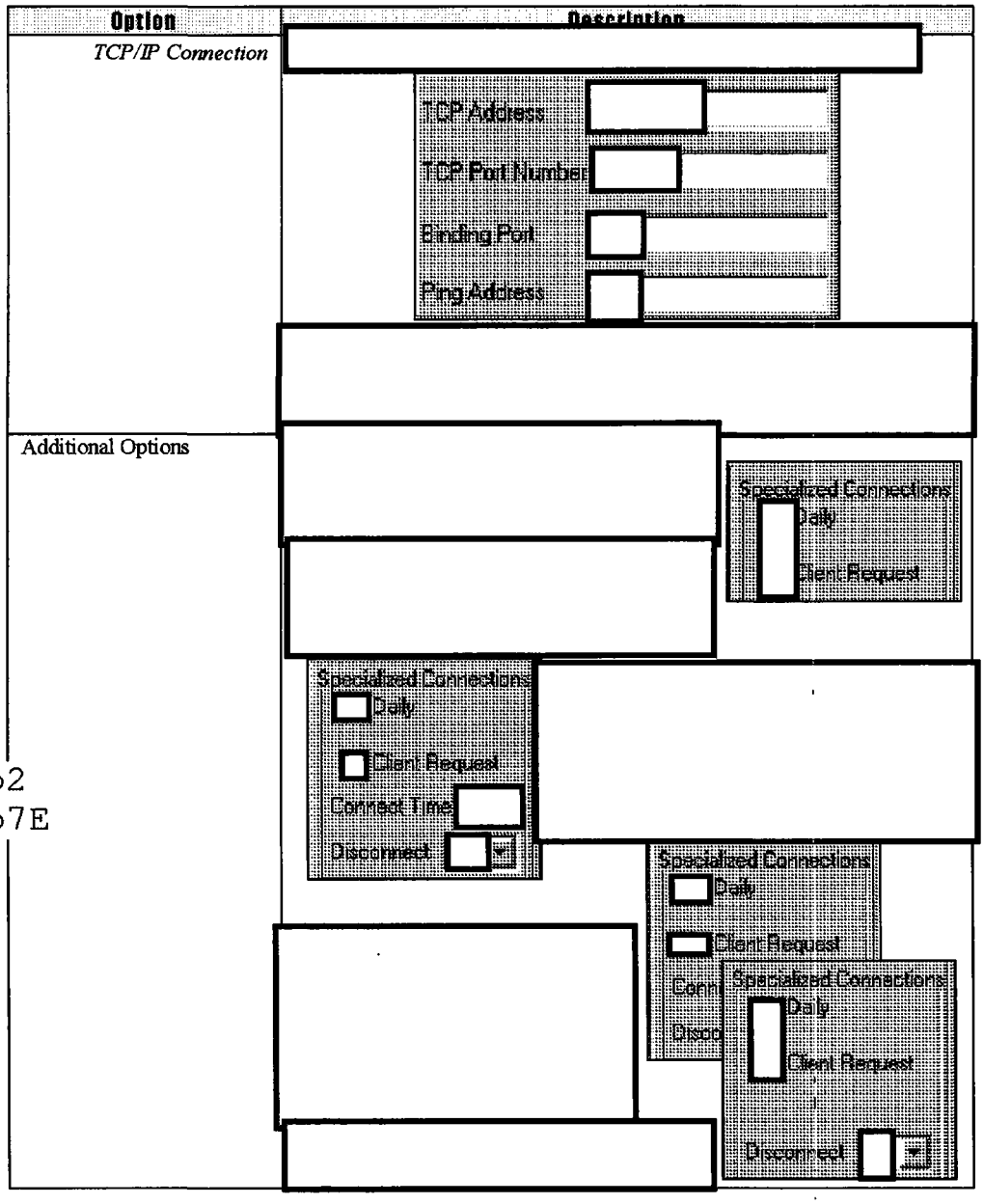

## Switch-Specific Settings

b2
b7E



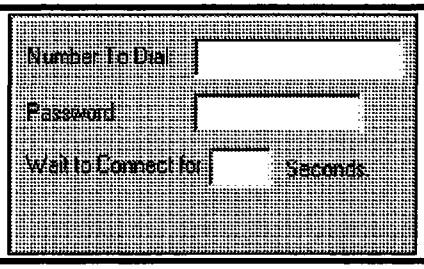
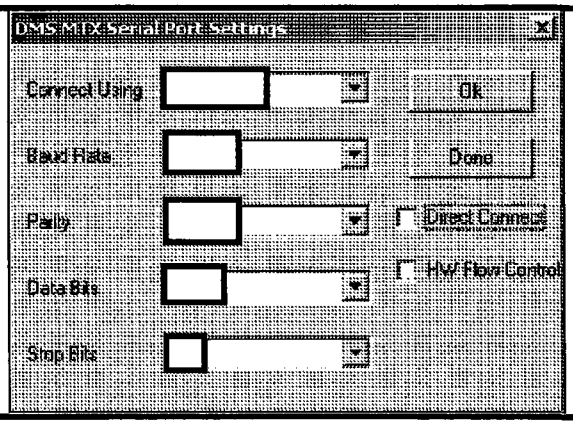
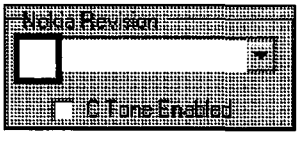
| Option | Description |
| --- | --- |
| *TCP/IP Connection*<br><br>b2<br>b7E |  |
| *Serial Connection* |  |
| *Serial– Modem Settings Window*<br><br>b2<br>b7E |  |

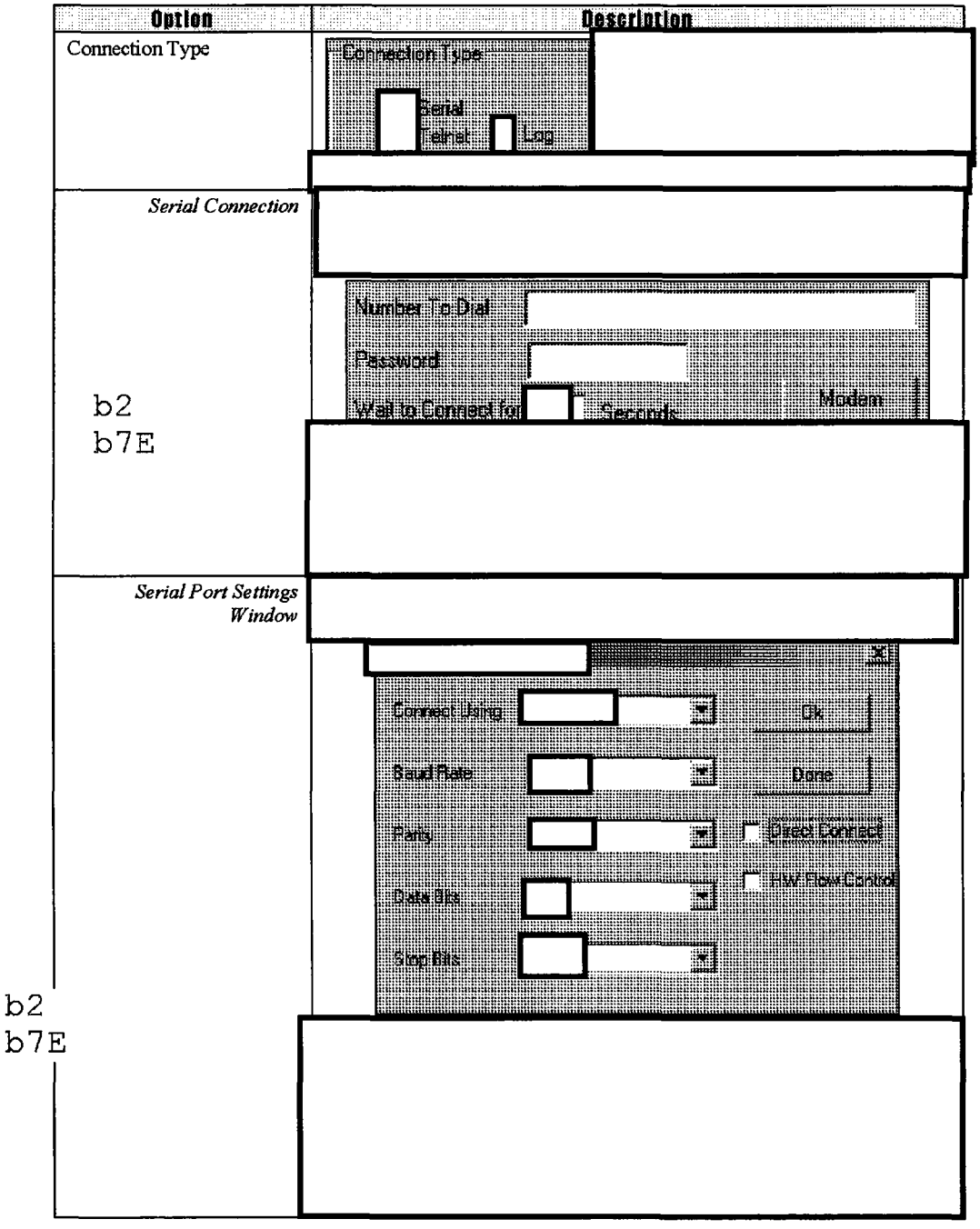
| Option | Description |
|---|---|
| *Serial– Modem Settings Window (continued)* | |
| *Telnet Connection*<br><br>b2<br>b7E<br><br>b2<br>b7E | • Displays the settings for connecting to the switch through a Telnet session.<br><br>Telnet IP address<br>Telnet Ping Address<br>Telnet User Name<br>Telnet Password<br>Telnet Socket<br>Telnet Command Line<br>Terminal Server<br><br>The "Override "Called Number"<br><br>Override "Called Number" |
| Connection Type | Connection Type<br>TCP/IP<br>Serial |

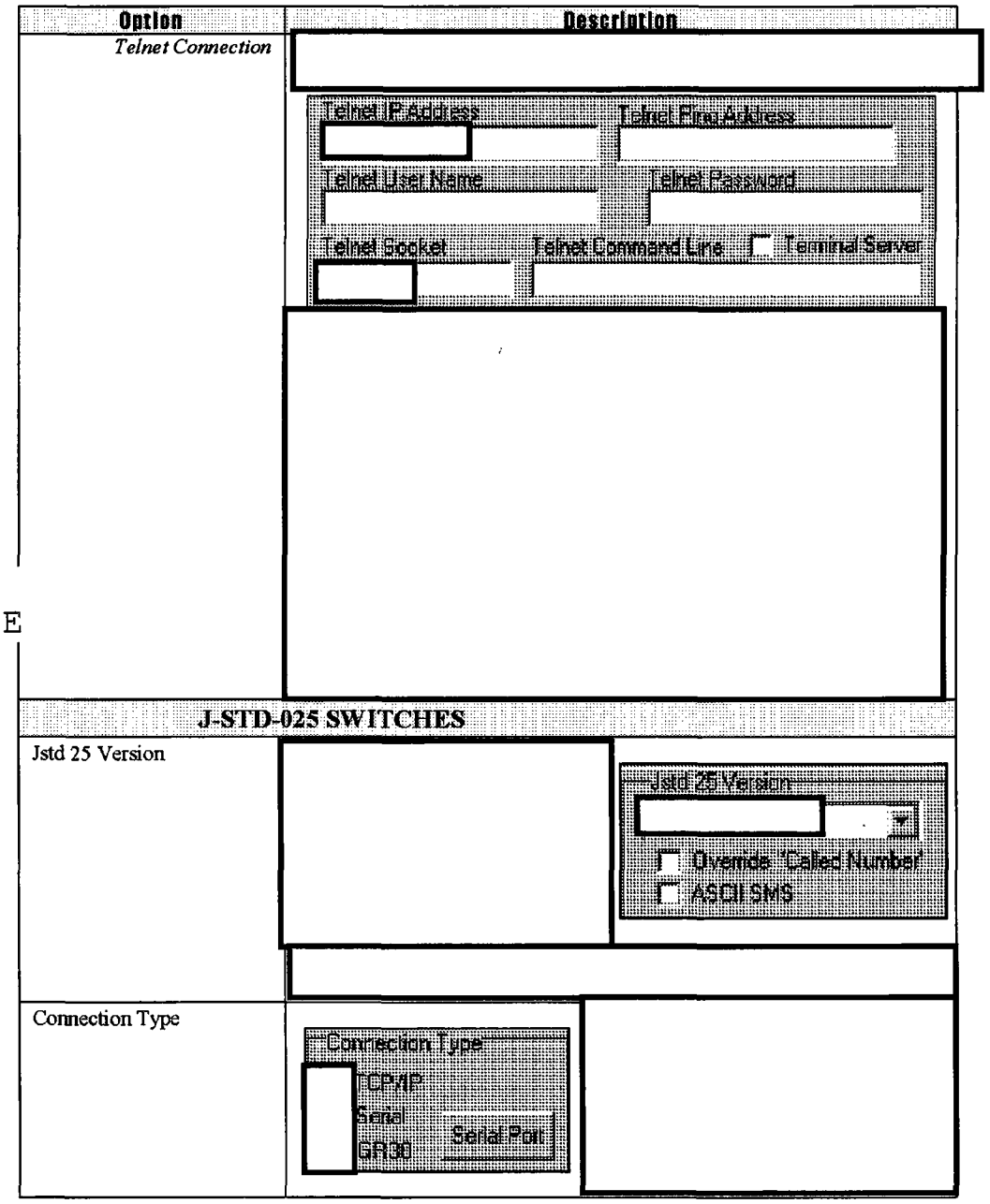

Option
Description
TCP/IP Connection
TCP Address
TCP Port Number
Binding Port
Ping Address
Additional Options
Specialized Connections
Daily
Client Request
Specialized Connections
Daily
Client Request
Connect Time
Disconnect
Specialized Connections
Daily
Client Request
Specialized Connections
Daily
Client Request
Disconnect

b2
b7E

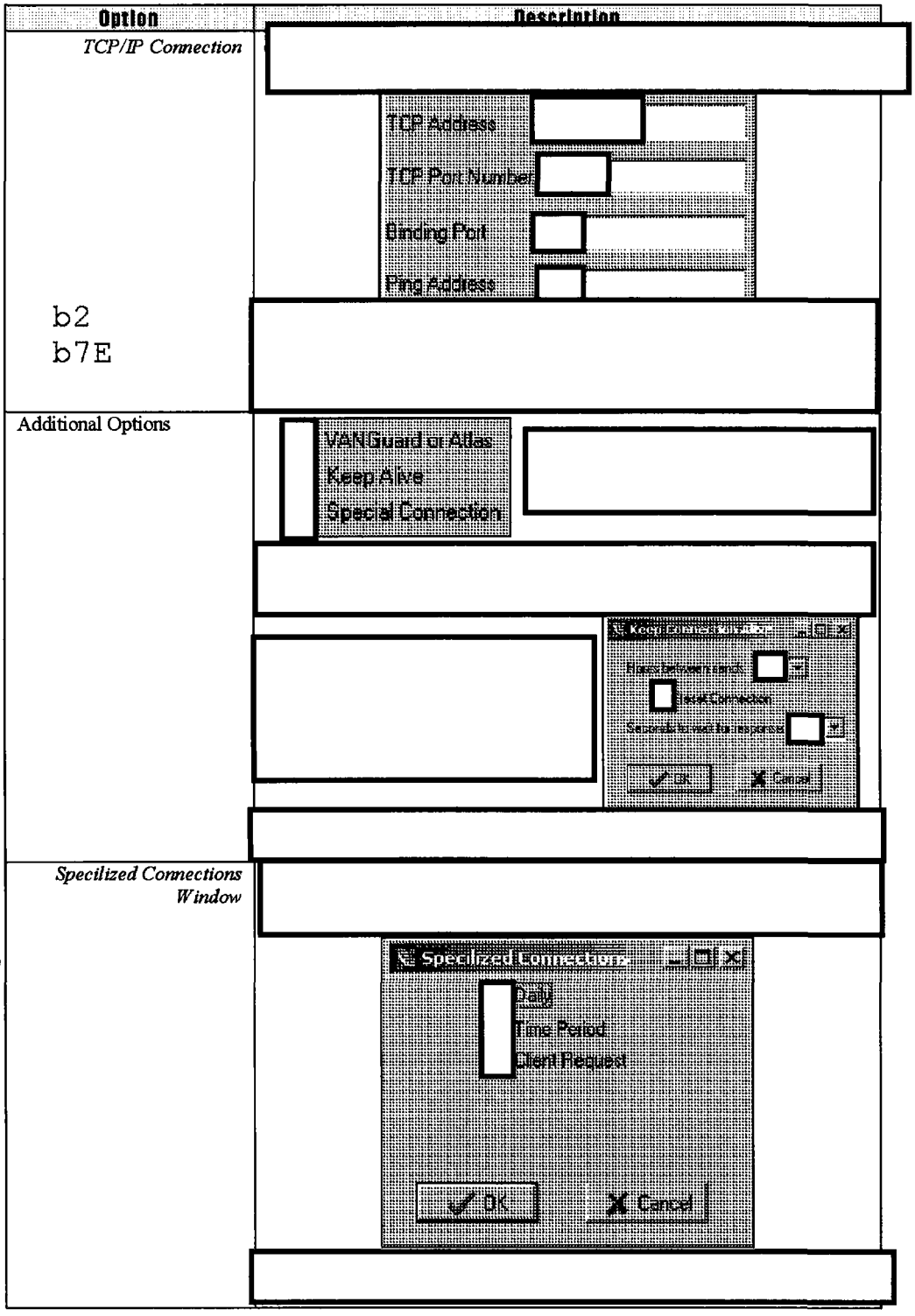
b2
b7E

| Option | Description |
|---|---|
| *Serial Connection*<br><br>b2<br>b7E |  |
| *Serial Connection* | |
| *Serial Port Settings Window*<br><br>b2<br>b7E |  |
| b2<br>b7E |  |

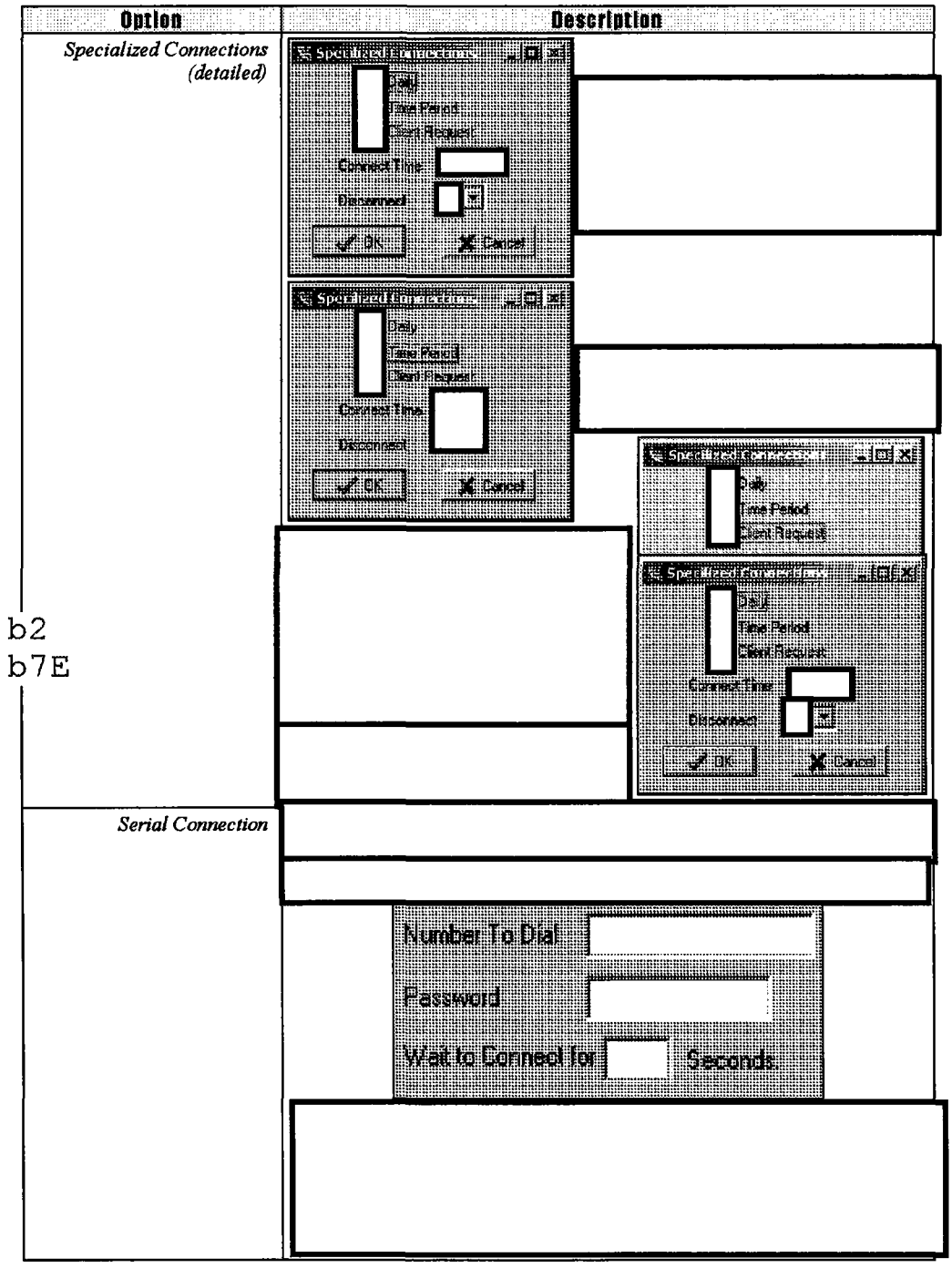

Option
Description
Connection Type
Connection Type
Serial
Telnet
Log
Serial Connection
Number To Dial
Password
Wait to Connect for
Seconds
Modem
b2
b7E
Serial Port Settings Window
Connect Using
Baud Rate
Parity
Data Bits
Stop Bits
Ok
Done
Direct Connect
HW Flow Control
b2
b7E

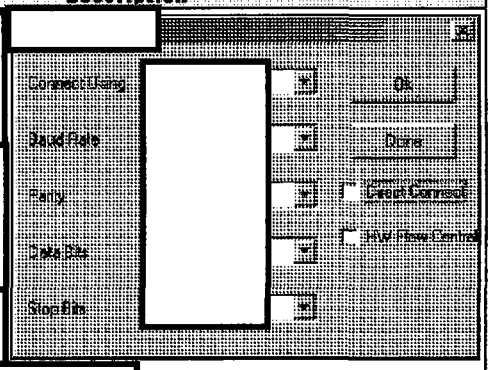
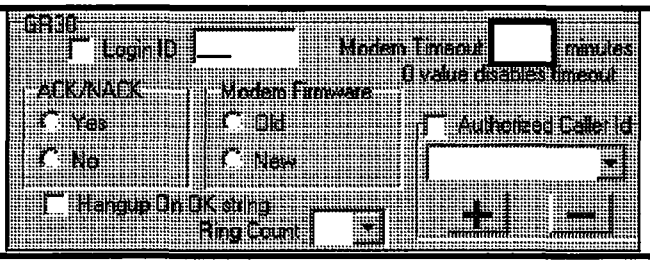

Option
Description
Telnet Connection
Telnet IP Address
Telnet Ping Address
Telnet User Name
Telnet Password
Telnet Socket
Telnet Command Line
Terminal Server
J-STD-025 SWITCHES
Jstd 25 Version
Jstd 25 Version
Override Called Number
ASCII SMS
Connection Type
Connection Type
CDMP
Serial
GPS
Serial Port

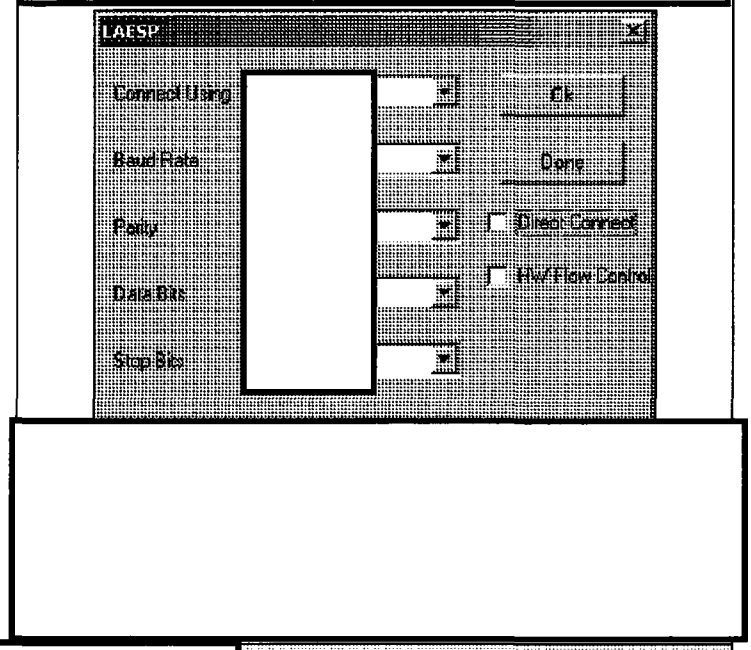
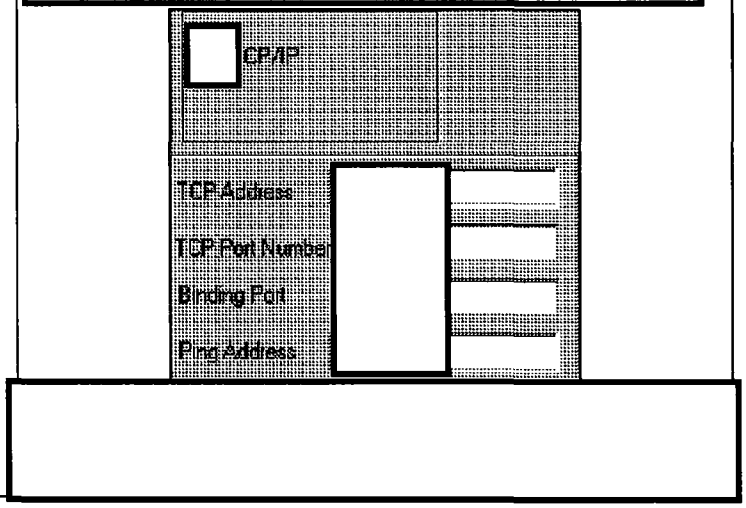
b2
b7E


Option
Description
TCP/IP Connection
TCP Address
TCP Port Number
Binding Port
Ping Address
b2
b7E
Additional Options
VANGuard or Atlas
Keep Alive
Special Connection
Specilized Connections Window
Specialized Connections
Daily
Time Period
Client Request
OK
Cancel

b2
b7E


Option
Description
Specialized Connections (detailed)
Daily
Time Period
Client Request
Connect Time
Disconnect
OK
Cancel
b2
b7E
Serial Connection
Number To Dial
Password
Wait to Connect for
Seconds

| Option | Description |
|---|---|
| *Serial Port Settings Window*<br><br>b2<br>b7E |  |
| *GR-30 Connection*<br><br>b2<br>b7E |  |

| Option | Description |
|---|---|
| *Serial Port SettingsWindow* |  |
| b2<br>b7E | |
| Connection Type | |
| *TCP/IP Connection* |  |
| b2<br>b7E | |