Freedom of Information and Privacy Acts

FOIPA# 1056287 and FOIPA#1056307-1

Subjects: DCS-3000 and RED HOOK

File Number: DIVISION CDs

Section: 2

Federal Bureau of Investigation

FEDERAL BUREAU OF INVESTIGATION
FOIPA
DELETED PAGE INFORMATION SHEET

Serial Description ~ COVER SHEET

Total Deleted Page(s) ~ 38
Page 417 ~ b2, b6, b7C, b7E
Page 418 ~ b2, b6, b7C, b7E
Page 419 ~ b2, b6, b7C, b7E
Page 420 ~ b2, b6, b7C, b7E
Page 421 ~ b2, b6, b7C, b7E
Page 422 ~ b2, b6, b7C, b7E
Page 423 ~ b2, b6, b7C, b7E
Page 424 ~ b2, b6, b7C, b7E
Page 425 ~ b2, b6, b7C, b7E
Page 426 ~ b2, b6, b7C, b7E
Page 427 ~ b2, b6, b7C, b7E
Page 428 ~ b2, b6, b7C, b7E
Page 429 ~ b2, b6, b7C, b7E
Page 430 ~ b2, b6, b7C, b7E
Page 431 ~ b2, b6, b7C, b7E
Page 432 ~ b2, b6, b7C, b7E
Page 433 ~ b2, b6, b7C, b7E
Page 434 ~ b2, b6, b7C, b7E
Page 435 ~ b2, b6, b7C, b7E
Page 436 ~ b2, b6, b7C, b7E
Page 437 ~ b2, b6, b7C, b7E
Page 438 ~ b2, b6, b7C, b7E
Page 439 ~ b2, b6, b7C, b7E
Page 440 ~ b2, b6, b7C, b7E
Page 441 ~ b2, b6, b7C, b7E
Page 442 ~ b2, b6, b7C, b7E
Page 443 ~ b2, b6, b7C, b7E
Page 444 ~ b2, b6, b7C, b7E
Page 445 ~ b2, b6, b7C, b7E
Page 446 ~ b2, b6, b7C, b7E
Page 447 ~ b2, b6, b7C, b7E
Page 448 ~ b2, b6, b7C, b7E
Page 449 ~ b2, b6, b7C, b7E
Page 450 ~ b2, b6, b7C, b7E
Page 451 ~ b2, b6, b7C, b7E
Page 452 ~ b2, b6, b7C, b7E
Page 453 ~ b2, b6, b7C, b7E
Page 454 ~ b2, b6, b7C, b7E

XXXXXXXXXXXXXXXXXXXXXXXX
X Deleted Page(s) X
X No Duplication Fee X
X for this Page X
XXXXXXXXXXXXXXXXXXXXXXXX

FBI System Security Plan (SSP)

Federal Bureau of Investigation (FBI)
SYSTEM SECURITY PLAN (SSP)

DCS 3000
System Security Plan

Date: 28 April 2006

Version: 2.0

SSP Template Rev. 3.0

System Owner: Operational Technology Division

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 06-01-2007 BY 65179dmh/ksr/lmf

TABLE OF CONTENTS

DCS 3000	
Software Version Numbers	
Client: 4.8y1	VANGuard: 3.0m
Server: 4.5e	Multi-VANGuard: 2.0q
MultiServer: 1.6J	

1: DCS 3000 Basics

Basic Information 1-2
Navigating the User Guide 1-3
Standards and Conventions 1-3
DCS Quick Steps 1-4
DCS 3000 Applications 1-5
Client 1-5
Server 1-6
MultiServer 1-6
VANGuard 1-6
MultiVANGuard 1-7
Selecting Applications 1-8
Installing DCS 3000 1-9
Hardware Requirements 1-9
Install DCS 3000 1-10
Quick Steps 1-16

2: Background: DCS Client

Client Settings and Options 2-2
Server Settings 2-4
Warrant Type Settings 2-6
Client Options 2-7
Voice Line Options 2-11
Switch and Workstation Options 2-13
Warrant Types 2-20
Pen Register Warrants 2-21
Title 3 Collections 2-24
Cooperative Warrant (CW) Collections 2-27
Surveillance Targets 2-30
Working in Warrant Database 2-31
Case ID Window 2-31
Switch Specific Window 2-33
Cooperative Warrant Window 2-36
Expired Warrants 2-37

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-22-2007 BY 65179 DMH/TAM/KRS/cb #1056287-00

Sending and Disabling Targets 2-38
Sending New Targets 2-38
Requesting Target Lists 2-40
Suspending Target Surveillance 2-40

3: Using the DCS Client

Working in the Client Window 3-3
Setting up a Collection 3-15
Pen Register Collection 3-16
Configure the Client 3-17
Enter the Warrant 3-19
Title 3 Collection 3-25
Configure the Client 3-26
Enter the Warrant 3-28
Cooperative Warrant (CW) Collection 3-34
Configure the Client 3-35
Enter the Warrant 3-37
b2
b7E
Setting up a Specialized Collection 3-44
[redacted] 3-44
..... 3-46
..... 3-47
Establishing a Connection 3-48
Send Target to the Server 3-49
Connecting to the Server 3-51
Connecting to the Switch 3-54
Request Target List 3-55
Modifying and Removing Warrants 3-56
Modify a Warrant 3-57
Delete a Warrant 3-60
Monitoring and Recording Calls 3-63
Connection Messages 3-64
Call Event Messages 3-65
Recording Calls 3-67
Storing and Printing Target Data Files 3-69
Log File (*.log) 3-71
Summary File (*.sum) 3-72
Reports 3-73
CDNRS File (*.cdnrs) 3-77
Saving and Printing Data Files 3-78
Suspending Target Surveillance 3-84
Shutting Down the Client 3-86
Client Hotkeys 3-92
Quick Steps 3-93

4: DCS Server

b2
b7E

Intercepting [redacted] (PTT) Calls 4-3
Decoders 4-3
PTT Data Flow 4-3
Server Settings and Options 4-5
Server Options 4-7
Switch-Specific Settings 4-11
Using the DCS Server 4-14
Working in the Server Window 4-15
Configuring the Server 4-17
Setting up the Server for a PTT Intercept 4-18
Configuring the Client 4-20
Enter the Warrant Through the DCS Client 4-21
Identify PTT Targets Through the DCS Client 4-22
View and Record PTT Targets Through the DCS Client 4-33
Suspend PTT Data Collections 4-35
Configuring the VSELP Decoder 4-36
Install the Motorola VSELP Decoder 4-37
Initialize the VSELP Decoder 4-45
Un-initialize and exit the VSELP Decoder 4-46
Exit the VSELP Decoder 4-47
Establishing a Connection 4-48
Connect to the Switch 4-48
Connect to the Server 4-49
Monitoring Activity 4-50
Storing Target Data Files 4-52
Shutting Down the DCS Server 4-53
Quick Steps 4-55

5: Background: DCS MultiServer

MultiServer Settings and Options 5-3
MultiServer Options 5-5
Connection List 5-11
Connection List Main Display 5-12
Switch Manufacturers 5-14
Switch-Specific Settings 5-15
[redacted] 5-15
..... 5-17
..... 5-19
..... 5-21
..... 5-25

b2
b7E

6: Using the DCS MultiServer

Working in the MultiServer Window 6-2
Setting up a Switch 6-4
Adding a Connection 6-6
Editing a Connection 6-9
Deleting a Connection 6-12
Establishing a Connection 6-15
Configuring a Connection 6-19
..... 6-19
b2 6-27
b7E 6-33
..... 6-40
..... 6-50
Monitoring Activity 6-53
Storing Target Data Files 6-58
Shutting Down the MultiServer 6-65
Quick Steps 6-66

7: DCS VANGuard

VANGuard Settings and Options 7-2
VANGuard Options 7-4
Switch Settings 7-6
Listen Mode 7-6
Connect Mode 7-7
Using the DCS VANGuard 7-8
Working in the VANGuard Window 7-9
Changing the Display 7-10
Clearing the Screen 7-13
Using the Find Feature 7-14
Selecting and Copying Data 7-16
Setting up the VANGuard 7-17
Establishing a Connection 7-21
Monitoring Activity 7-22
Current Connection Status 7-25
Ghost Connection Check 7-26
Buffering Target Data Files 7-29
Shutting Down the VANGuard 7-30
Quick Steps 7-31

8: MultiVANGuard

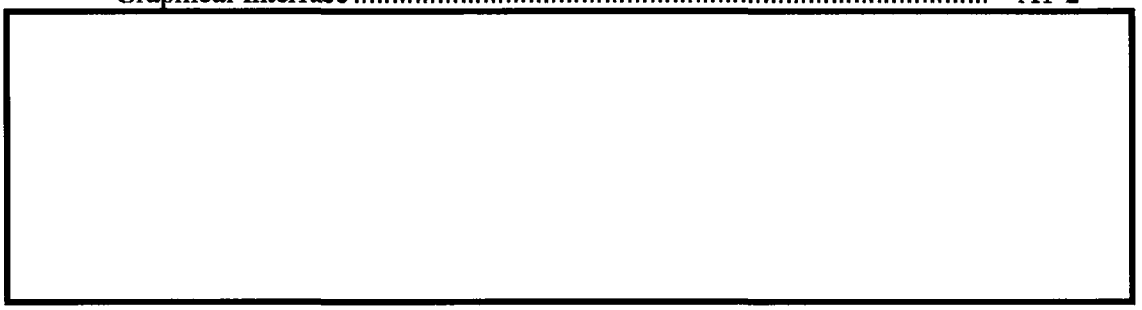
MVG Options and Settings 8-3
MVG Options 8-5
Switch-Specific Settings 8-8
Listen Mode 8-8
Connect Mode 8-9
Using the MVG 8-13
Working in the MVG Window 8-14
Changing the Display 8-15
Clearing the Screen 8-18
Using the Find Feature 8-19
Selecting and Copying Data 8-21
Configuring the MVG 8-22
Adding a Connection 8-26
Editing a Connection 8-29
Deleting a Connection 8-31
Configuring an Alias 8-34
Establishing a Connection 8-38
Connecting to the Switch 8-38
Disconnecting from the Switch 8-40
Monitoring Activity 8-42
Current Field Office Connection Status 8-45
Field Office Ghost Connection Check 8-46
Switch Data Check 8-50
Field Office Data Check 8-51
Buffering Target Data Files 8-52
Shutting Down the MVG 8-53
Quick Steps 8-54

Appendix A: Glossary

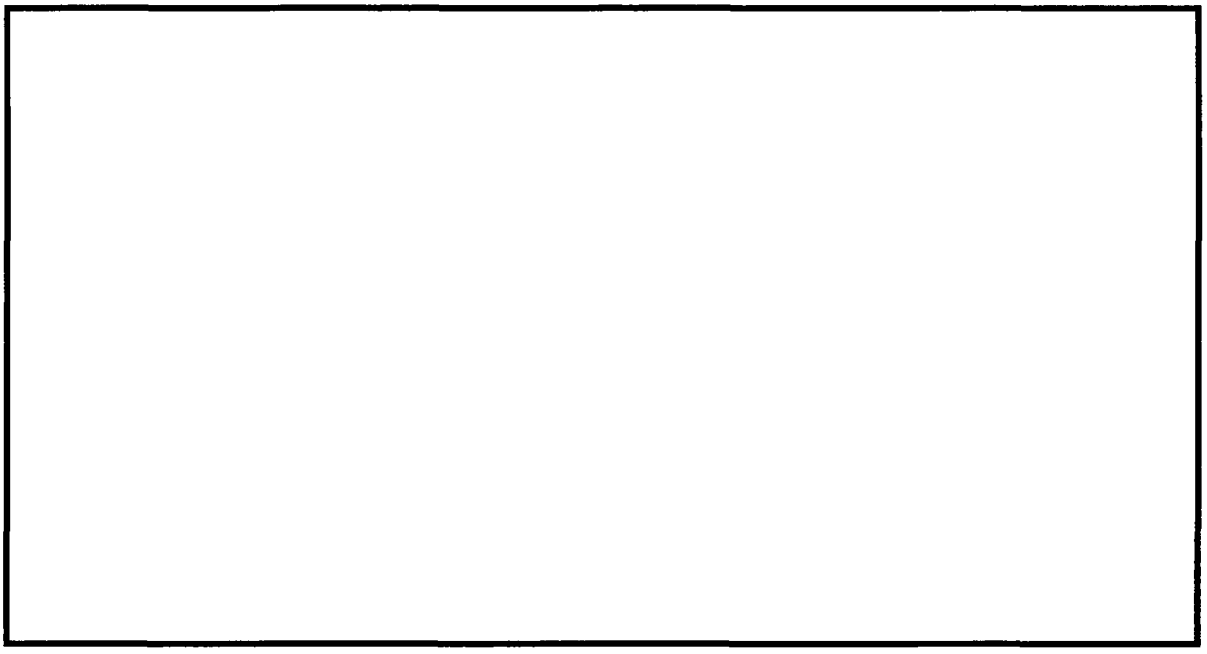
Appendix B: Addendum 1

DCS 3000 Updates A1-1
Overview A1-2
Graphical Interface A1-2

b2
b7E



b2
b7E



Release Notes

Data Collection System (DCS) 3000

User Guide

Chapter 1

Software Version Numbers

Client: 4.8y1	MultiServer: 1.6J	VANGuard: 3.0m
Server: 4.5e		Multi-VANGuard: 2.0q

DCS 3000 Basics

The Data Collection System (DCS) 3000 suite of applications was developed to assist Law Enforcement Agencies (LEAs) with collecting and processing data for court-ordered electronic surveillance operations.

The DCS 3000 User Guide was developed to provide end-users with step-by-step instructions for using the DCS 3000 application suite.

This chapter contains the following sections:

- Basic Information
- Navigating the User Guide
- DCS 3000 Applications
- Selecting Applications for Implementation
- Installing DCS 3000
- Quick Steps

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

Basic Information

The Communications Assistance for Law Enforcement Act (CALEA) was passed in 1994 to specify the requirements that telecommunications service providers must meet.

In response to CALEA, the Telecommunications Industry Association (TIA) and the Alliance for Telecommunications Industry Solutions (ATIS) collaborated to develop CALEA message structures for the Joint Standard (J-STD)-025. These voluntary standards provide switch manufacturers with technical specifications and guidelines for data formatting.

Switch-specific settings are used and described in the following chapters. As the number of switch manufactures complying with J-STD-025 is increasing, Switch-specific settings apply to the switches that are not compliant.

Courts issue different types of warrants for each case. The data that LEAs collect depend upon the type of warrant issued.

- Pen Register: collection of call related data
- Title 3: collection of call related data and content
- Cooperative Warrant: collection of call related data and content for phone numbers that are identified in the CW List.

b2
b7E

Note:

Navigating the User Guide

The DCS 3000 User Guide contains the following sections:

- Chapter 1: DCS 3000 Basics
- Chapter 2: Background: DCS Client
- Chapter 3: Using the DCS Client
- Chapter 4: DCS Server – Intercepting Push-to-Talk Calls
- Chapter 5: Background: DCS MultiServer
- Chapter 6: Using the DCS MultiServer
- Chapter 7: DCS VANGuard
- Chapter 8: DCS MultiVANGuard
- Glossary
- Addendum 1: DCS 3000 Advanced Features
  (only available to FBI personnel)

Standards and Conventions

Several standards and conventions are used throughout the DCS 3000 User Guide.

Item	Display
Buttons	Click .
Hyperlinks	http://www.fbi.gov
Menu items	**File**, **Edit**. Select **File**, **Print**.
Notes	**Note:**
Procedure	**To install DCS 3000:**
Step and result	**1.**
User selection	

b2
b7E

Data Collection System (DCS) 3000

User Guide

Chapter 2

Software Version Numbers: Client V 4.8y1

Background: DCS Client

The DCS Client application is configured to collect data for Court-approved surveillance operations. The Client receives call related data from the DCS Server or MultiServer and packages it into target data files that are saved, forwarded, or printed. At times, the Client is used to reformat and export call related data for use in external databases. The Client cannot record call content. However, installing a Recorder Control Interface (RCI) card allows the Client to control standard recording devices, which record such audio.

The Client's background information and descriptions of options are presented in the following sections:

- Client Settings and Options
- Warrant Types
- Surveillance Targets

Step-by-step procedures are included in *Chapter 3: Using the DCS Client.*

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

Client Settings and Options

The DCS Client Configuration window, displayed in Figure 2-1

b2
b7E

b2
b7E

b2
b7E

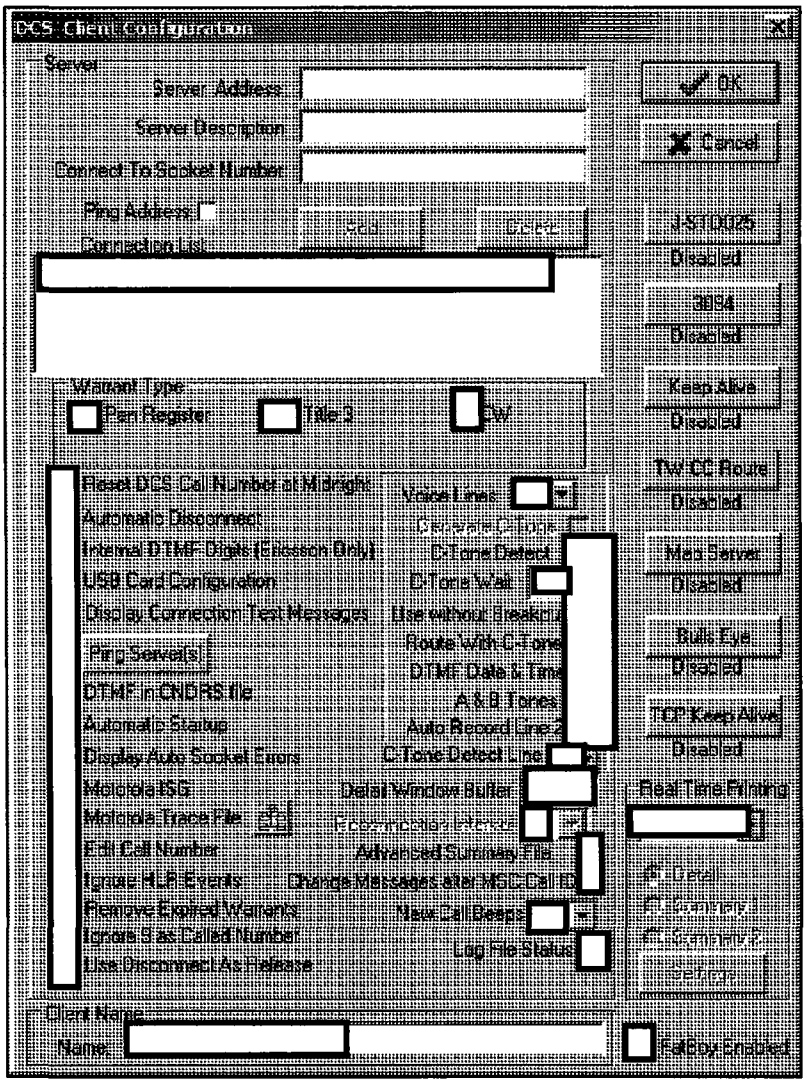


Figure 2-1: DCS Client Configuration Window

b2
b7E

The Client Configuration settings are grouped into several categories, as displayed in Figure 2-2:

- Server-Specific Settings
- Warrant Type Settings
- Client Options
- Voice Line Options
- Switch and Workstation Options

b2
b7E

b2
b7E

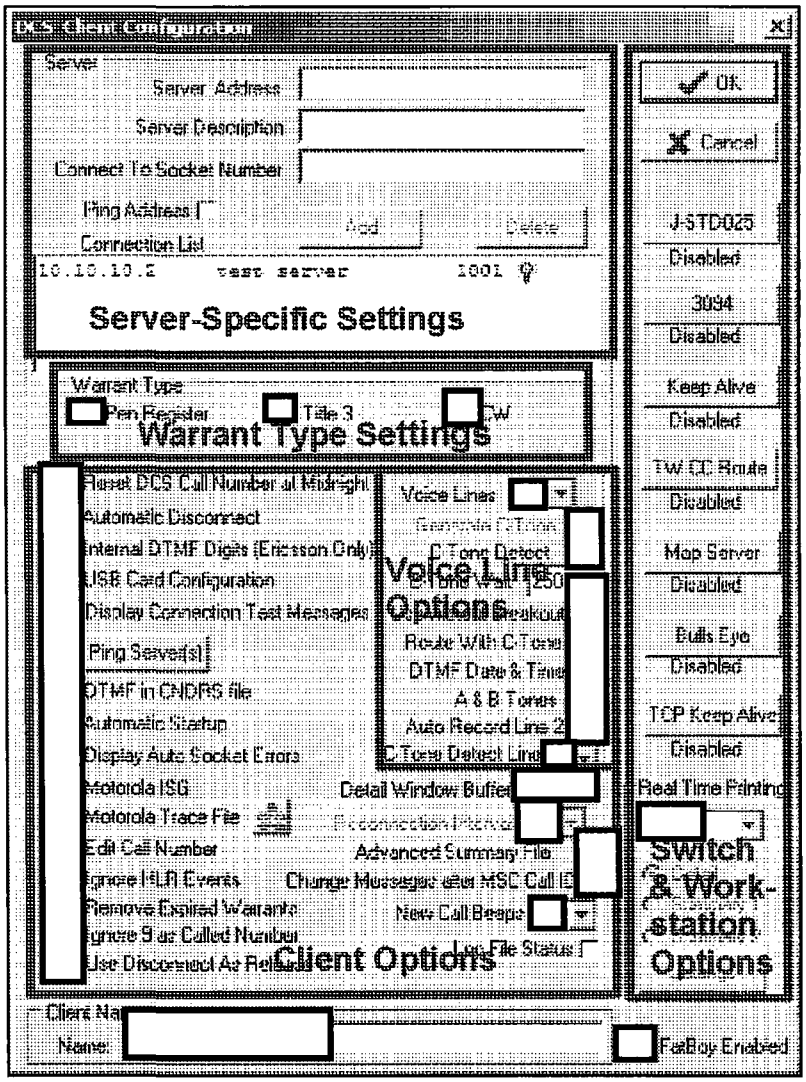
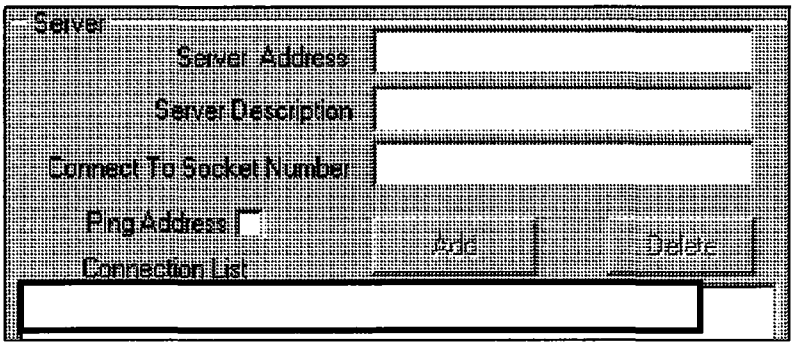


Figure 2-2: DCS Client Configuration Window With Labeled Settings

b2
b7E

Server-Specific Settings

Figure 2-3 displays the Server Settings in the DCS Client Configuration window.



b2
b7E

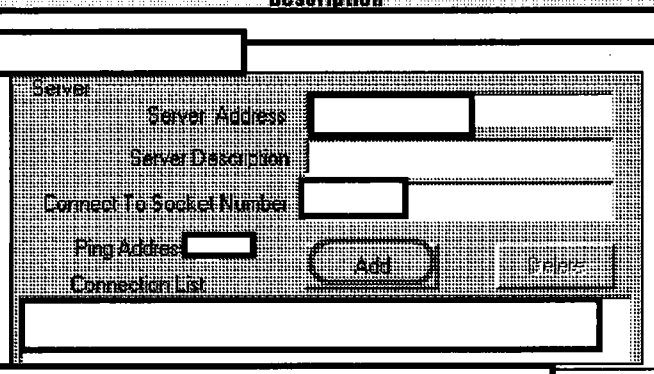
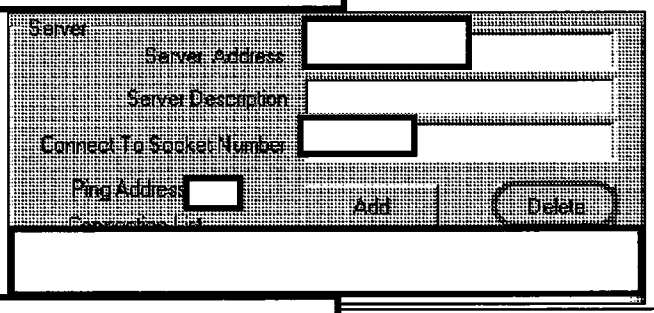
b2
b7E

Figure 2-3: DCS Client Configuration Window - Server Settings

This table describes the Server settings.

Setting	Description
Server Address	
Server Description	
Connect to Socket Number	
Ping Address	

b2
b7E

Setting	Description
Add b2 b7E	
Delete	Highlight the 
Connection List	

Warrant Type Settings

The Warrant Type settings displayed in Figure 2-4

b2
b7E

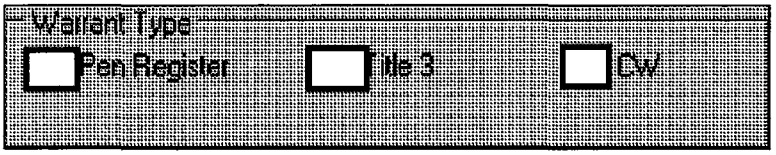


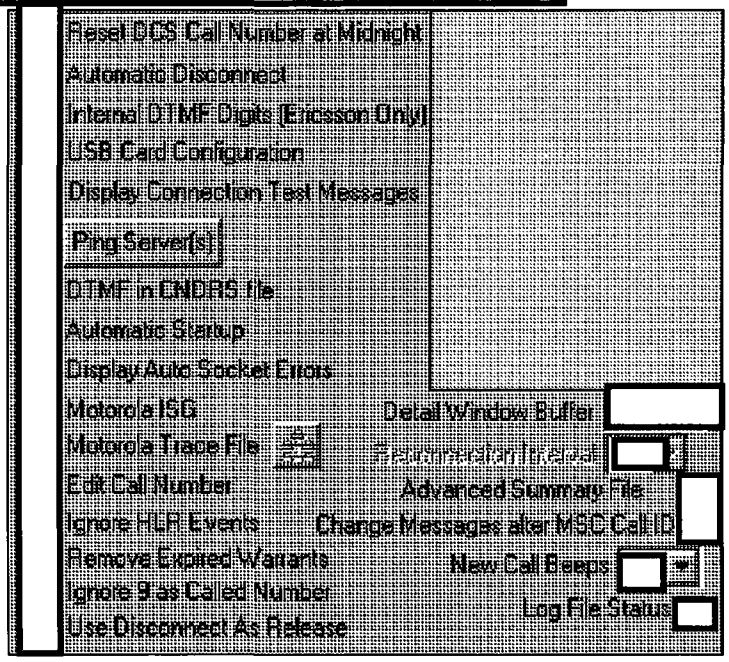
Figure 2-4: DCS Client Configuration Window - Warrant Type Settings

This table describes the Warrant Type settings.

Setting	Description
Pen Register	Displays the available settings for Pen Register collections. Only call related data is collected during these intercepts.
Title 3	Displays the available settings for Title 3 collections. For Title 3 intercepts, call related data and content may be collected.
CW	Displays the available settings for Cooperative Warrant collections. For CW intercepts, both call related data and content are collected, but not for all telephone numbers. Under a CW, the witness can request to exclude certain numbers from surveillance.

Client Options

The Client Options outlined in Figure 2-5



b2
b7E

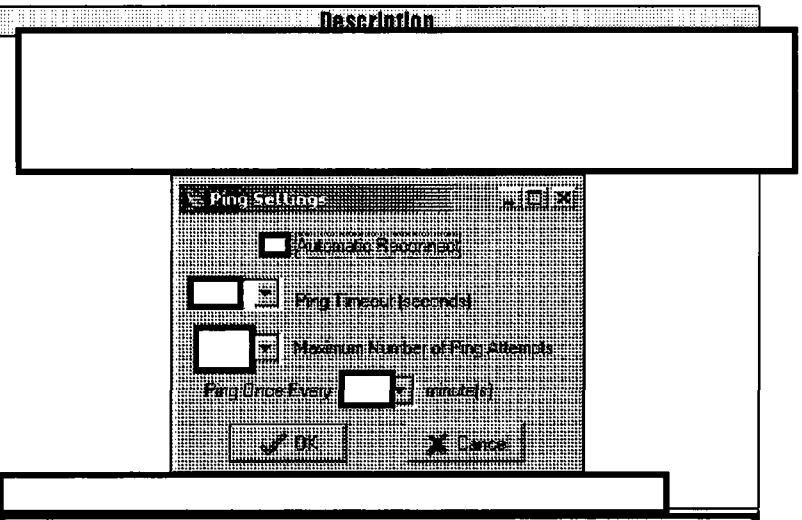
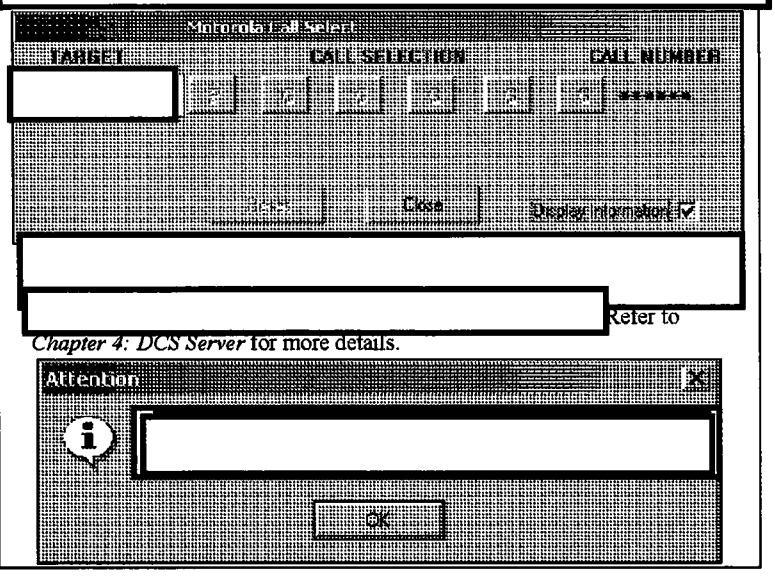
Figure 2-5: DCS Client Configuration Window - Client Options

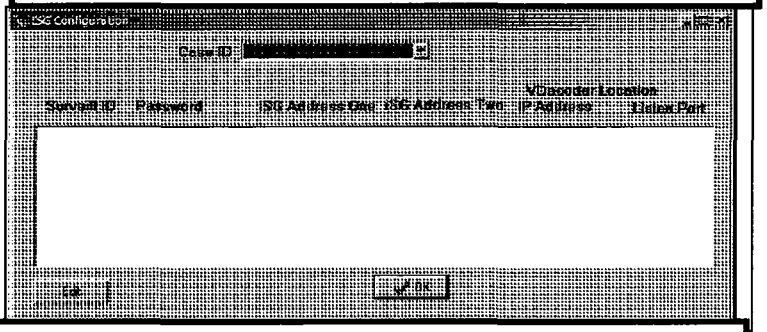
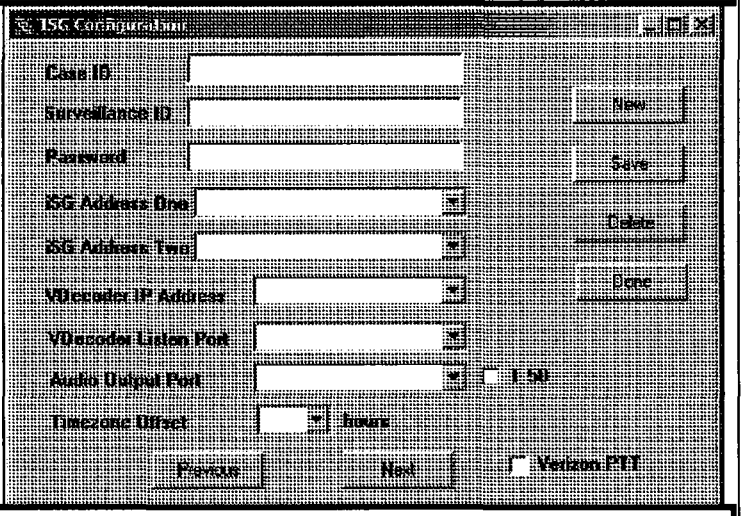
This table describes the Client options.

Setting	Description
Reset DCS Call Number at Midnight	
Automatic Disconnect	
Internal DTMF Digits (Ericsson Only)	
USB Card Configuration	
Display Connection Test Messages	
Ping Server(s)	

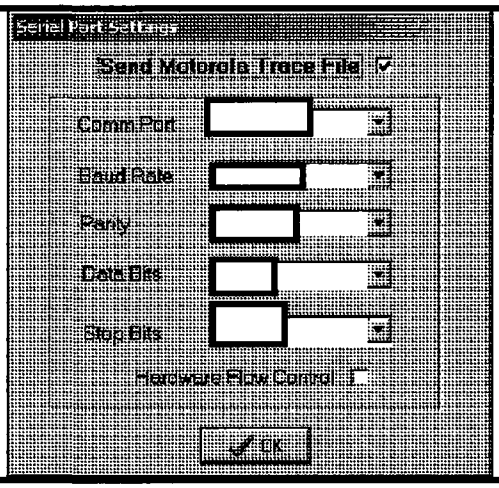
b2
b7E

b2
b7E

Setting	Description
Ping Settings Window	
DTMF in CDNRS file	
Automatic Startup	
Display Auto Socket Errors	
Motorola iSG *Motorola Call Select Window*	
Motorola Attention Window	Refer to *Chapter 4: DCS Server* for more details.

Setting	Description
ISG Configuration Window	
ISG Configuration (edit) Window	
Motorola Trace File	

b2
b7E

Setting	Description
Serial Port Settings Window	
Edit Call Number	
Ignore HLR Events	
Remove Expired Warrants	
Ignore 9 as a Called Number	
Use Disconnect As Release	
Detail Window Buffer	
Reconnection Interval	
Advanced Summary File	
Change Messages alter MSC Call ID	
New Call Beeps	
Log File Status	
Client Name	

b2
b7E

Voice Line Options

The Voice Line options displayed in Figure 2-6

b2
b7E

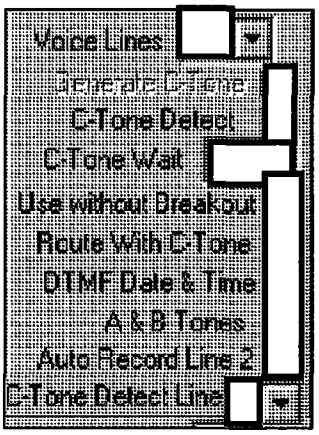


Figure 2-6: DCS Client Configuration Window - Voice Line Options

This table describes the Voice Line options.

Setting	Description
Voice Lines	
Generate C-Tone	
C-Tone Detect	
C-Tone Wait	
Use without Breakout	
Route with C-Tone	

b2
b7E

Setting	Description
DTMF Date & Time	
A & B Tones	
Auto Record Line 2	
C-Tone Detect Line	

Switch and Workstation Options

The Switch and Workstation options displayed in Figure 2-7

b2
b7E

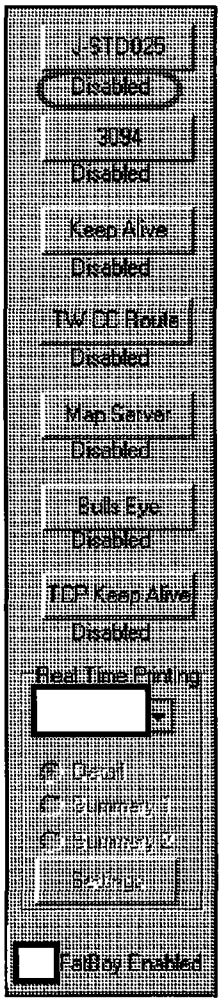
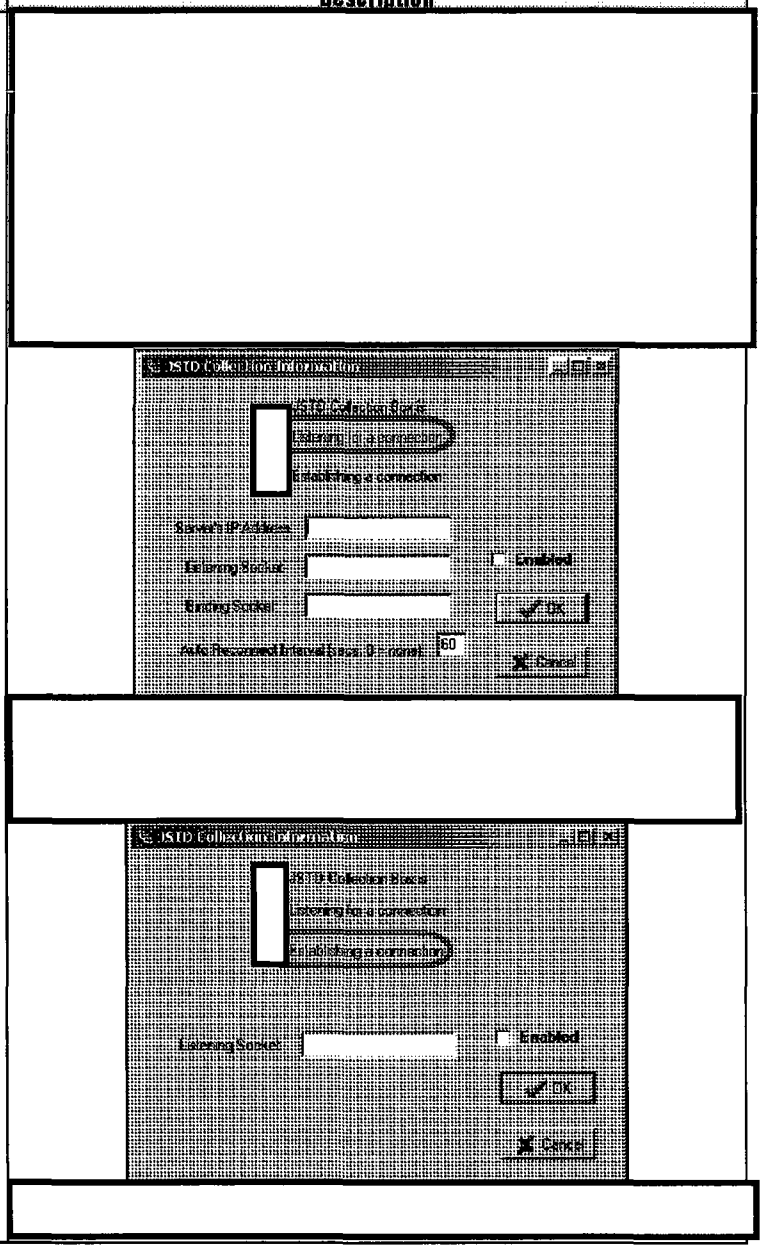


Figure 2-7: DCS Client Configuration Window - Switch and Workstation Options

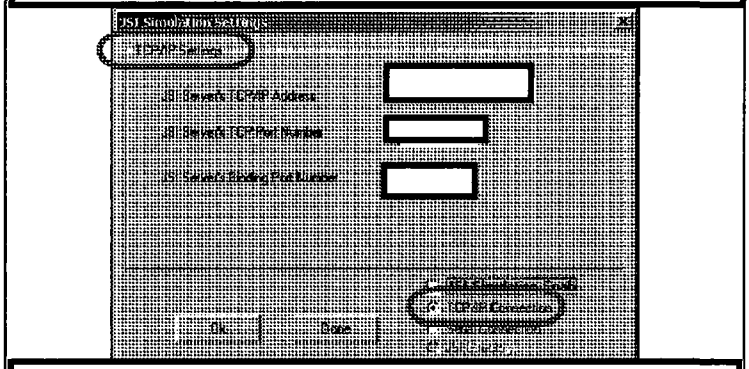
This table describes the Switch and Workstation options.

Option	Description
J-STD025 *JSTD Collection Information Window* b2 b7E	

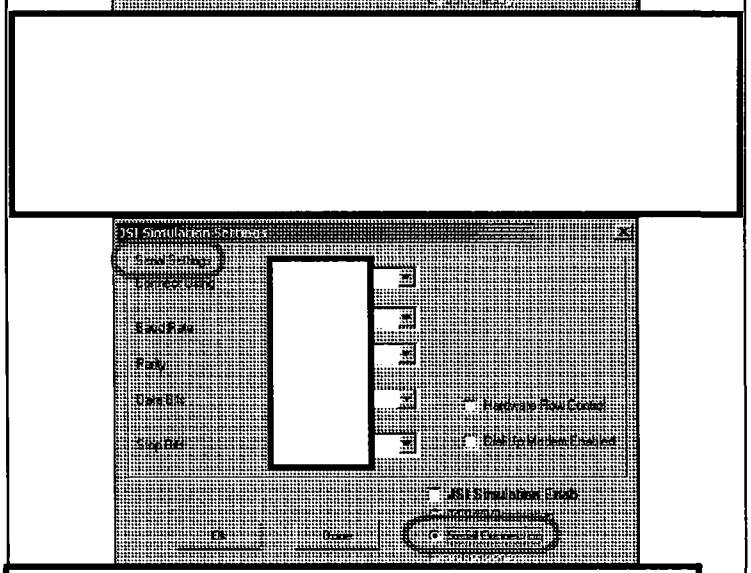
3094

JSI Simulation Settings Window (TCP/IP Connection)

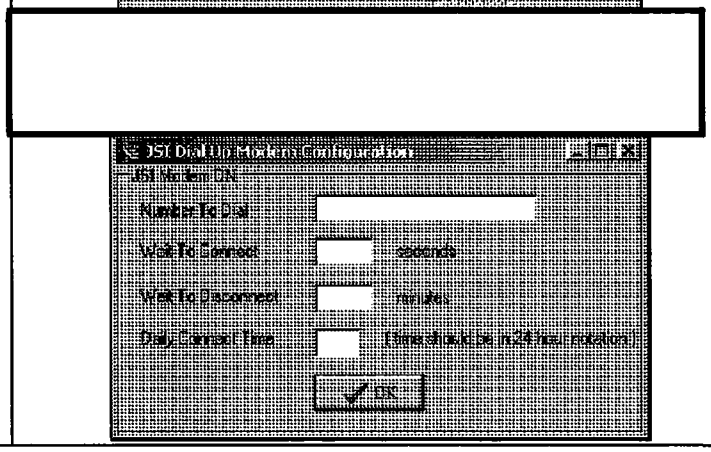
b2
b7E



JSI Simulation Settings Window (Serial Connection)



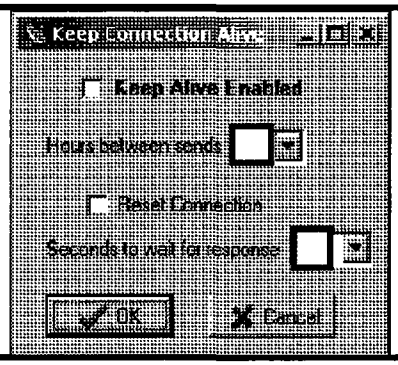
JSI Dial Up Modem Configuration Window



Keep Alive

Keep Connection Alive Window

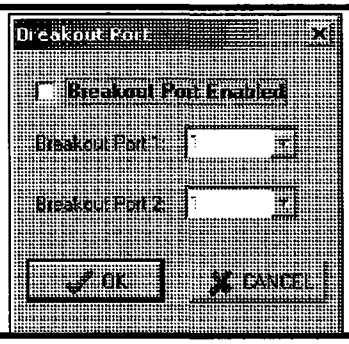
b2
b7E



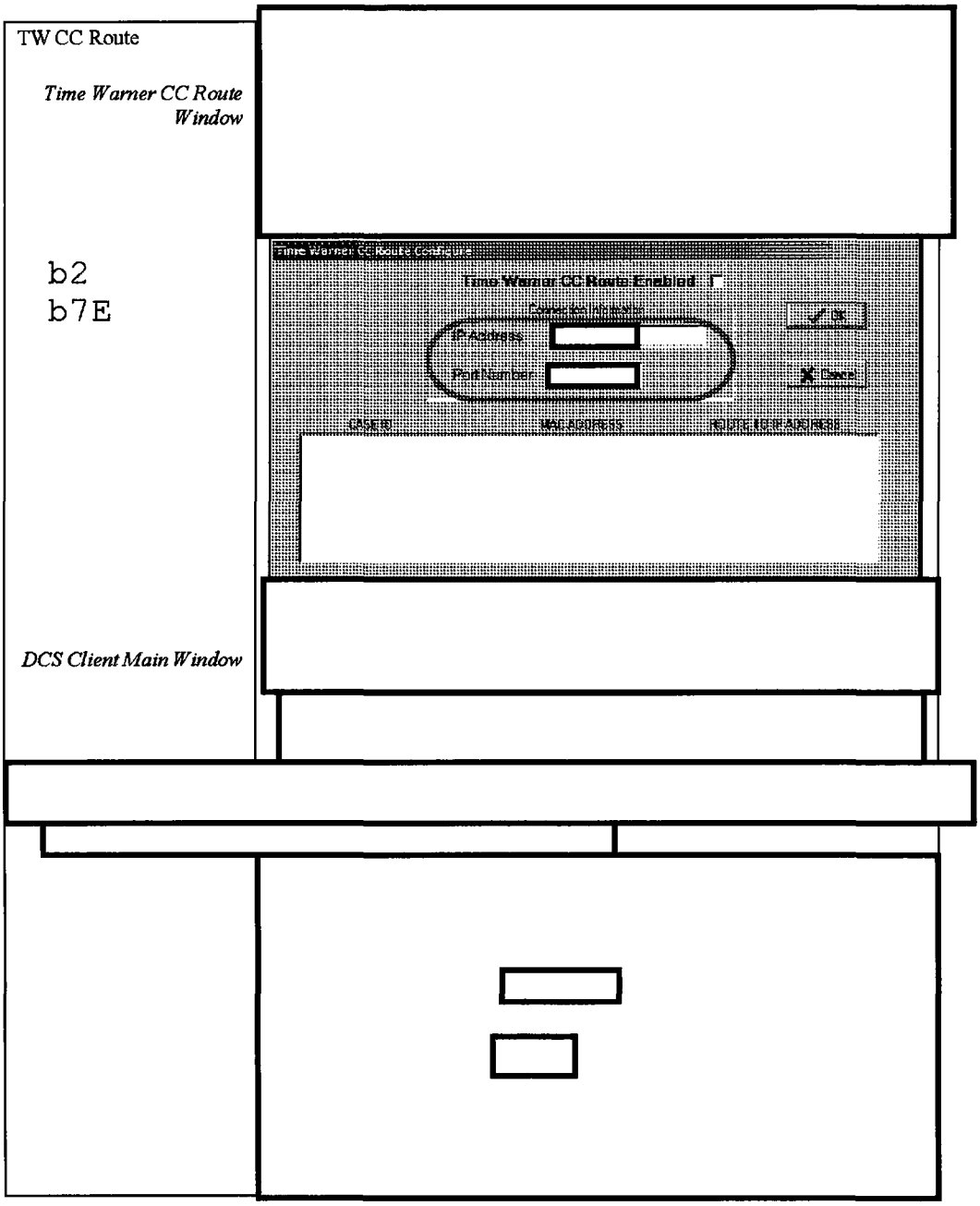
Breakout Port

Breakout Port Window

b2
b7E



b2
b7E


TW CC Route
Time Warner CC Route Window
b2
b7E
Time Warner CC Route Enabled
IP Address
Port Number
DCS ID
MAC ADDRESS
DCS Client Main Window
b2
b7E

b2
b7E

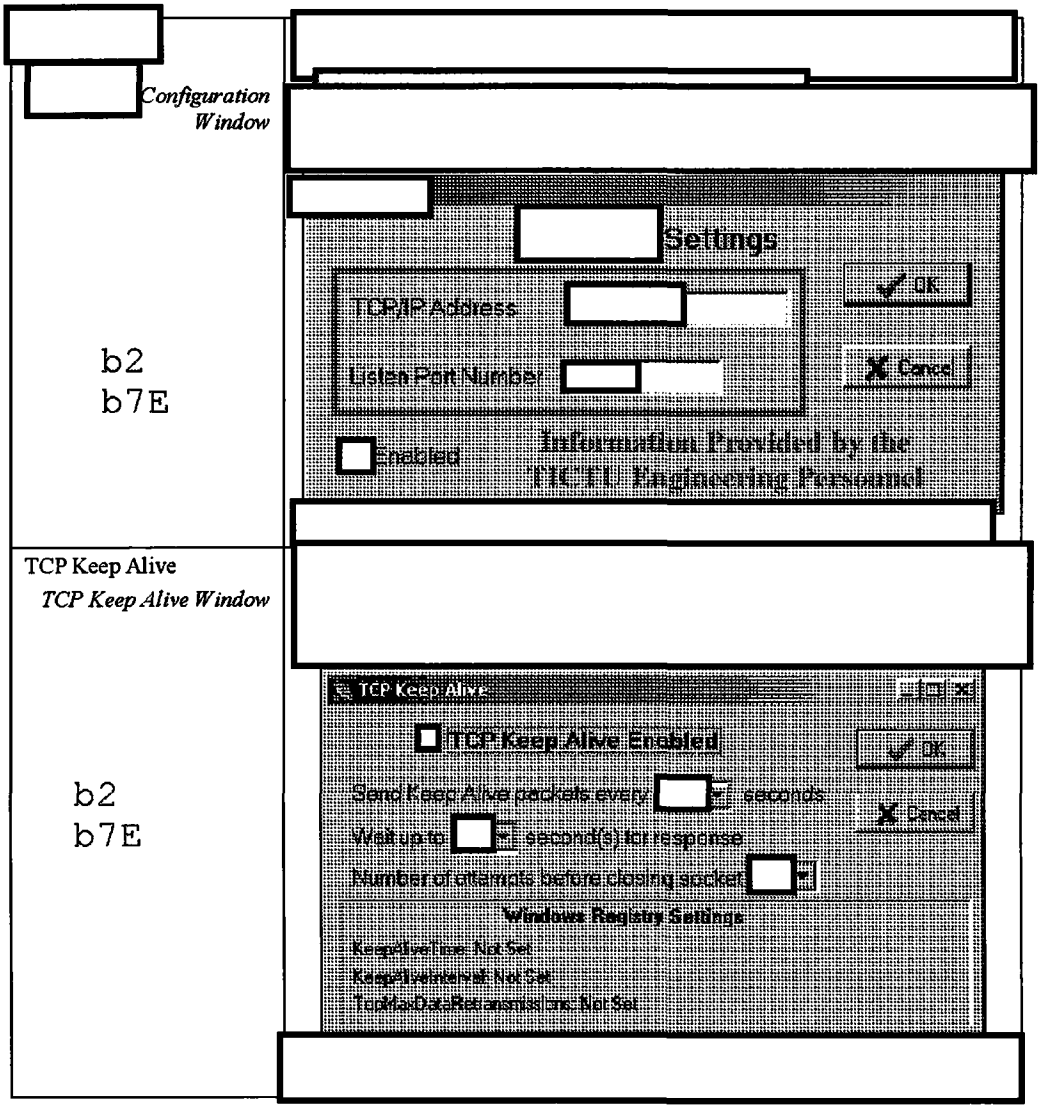
Configuration Window

b2
b7E

TCP Keep Alive

TCP Keep Alive Window

b2
b7E



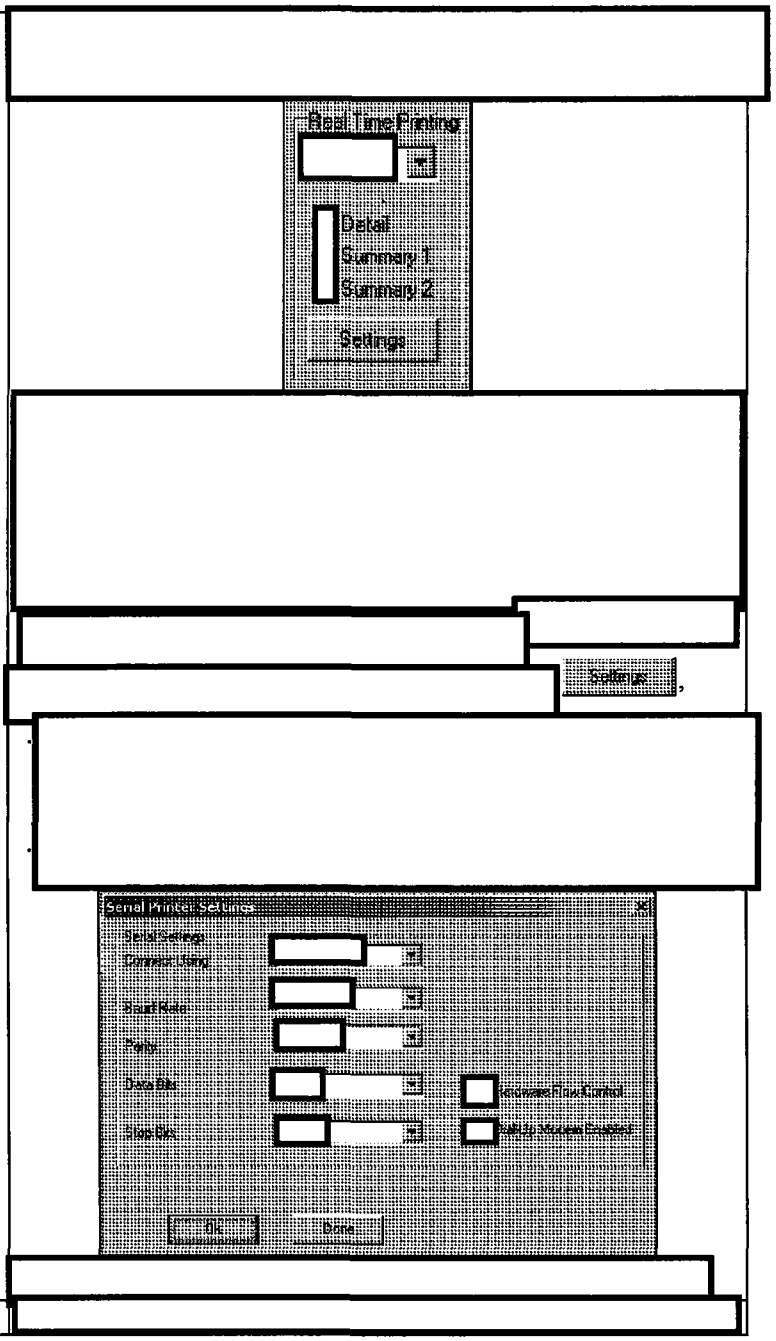
Real Time Printing

b2
b7E

Serial Printer Settings Window

b2
b7E

FatBoy Enabled



Warrant Types

LEAs are required by law to obtain a warrant from an appropriate Court before electronic surveillance operations are conducted.

b2
b7E

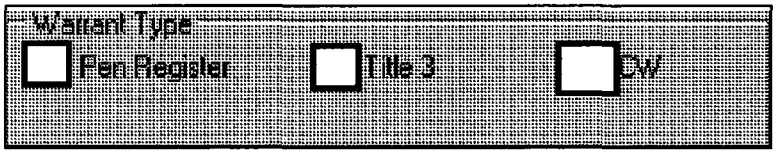


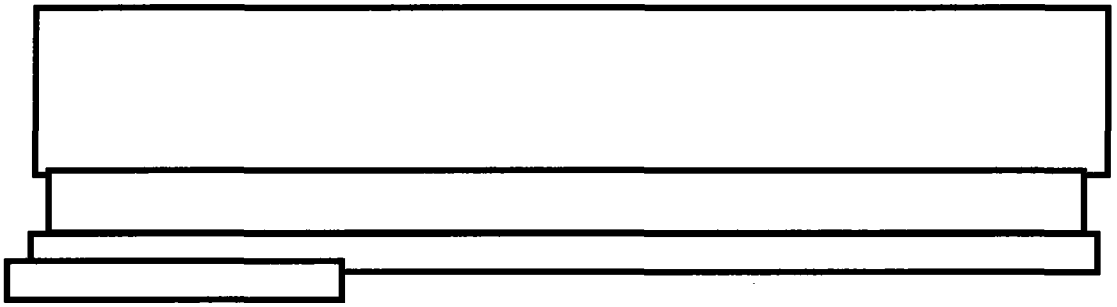
Figure 2-8: DCS Client Configuration Window - Pen Register Options

DCS 3000 supports the following types of warrants:

- Pen Register Warrants
- Title 3 Warrants
- Cooperative Warrants (CW)

Pen Register Warrants

b2
b7E



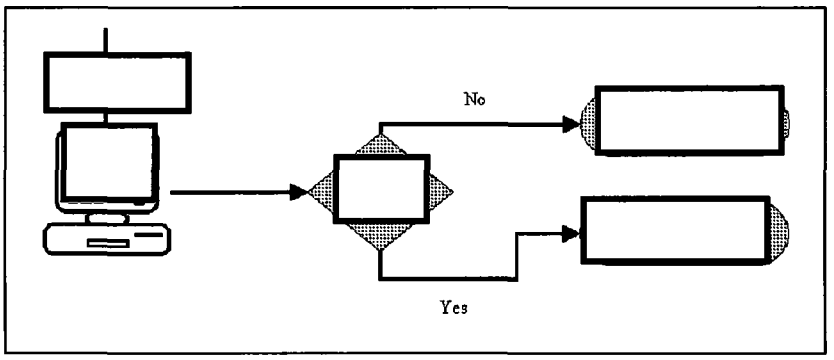


Figure 2-9: Pen Register Data Flow

Figure 2-10 displays the DCS Client Configuration window with Pen Register options displayed.

b2
b7E

b2
b7E

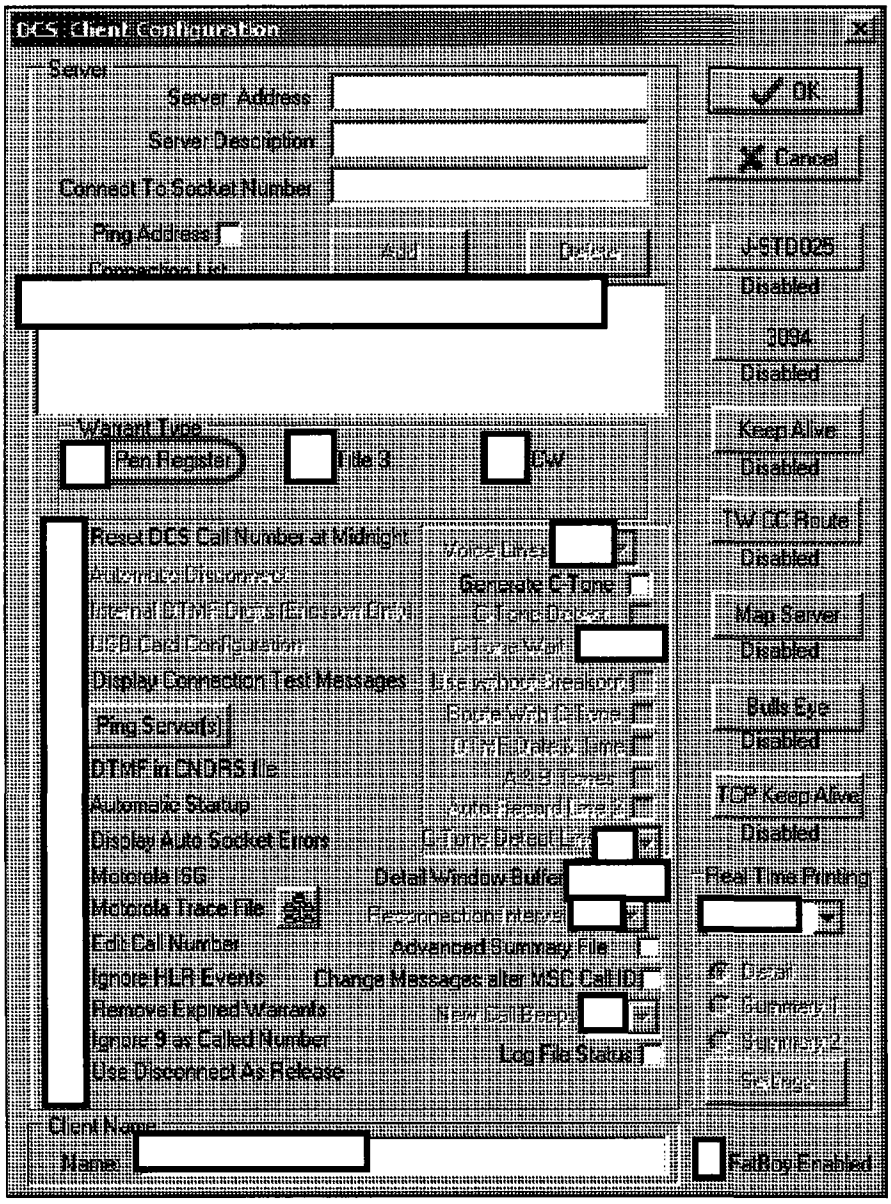


Figure 2-10: DCS Client Configuration Window - Pen Register Options

The Client toolbars and menus active for Pen Register collections are displayed in Figure 2-11.

b2
b6
b7C
b7E

b2
b7E

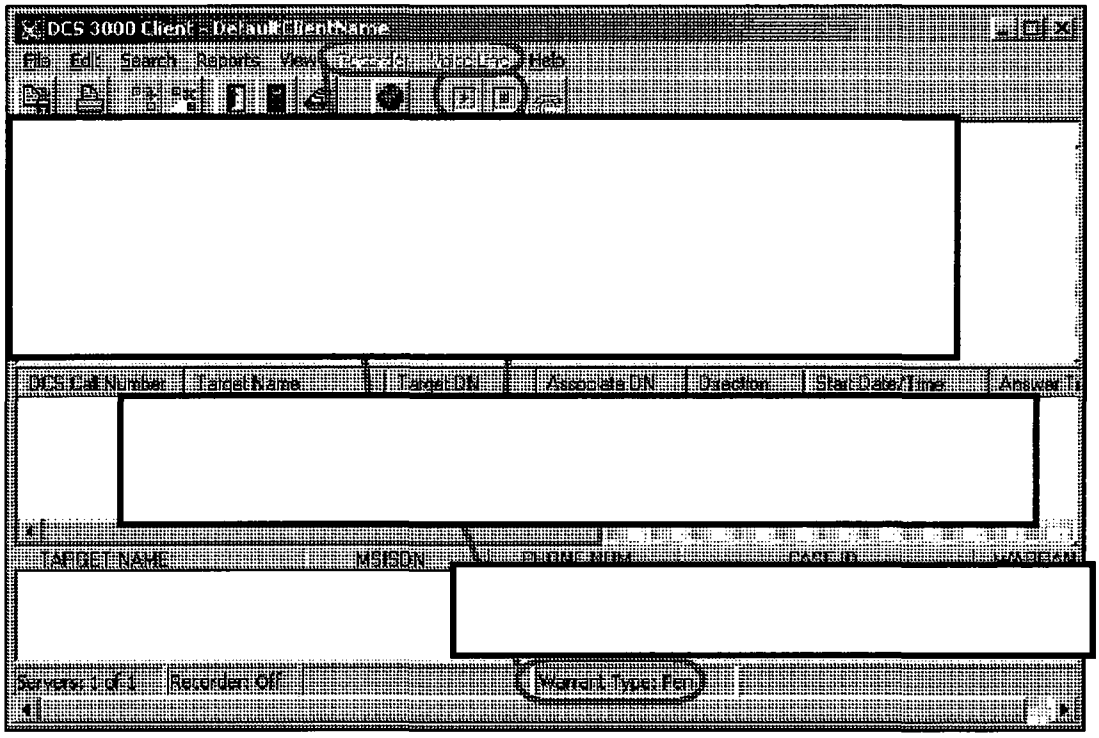


Figure 2-11: Client Window in Pen Register Collection Mode

Title 3 Warrants

b2
b7E

Figure 2-12 displays the data flow for Title 3 connections.

b2
b7E

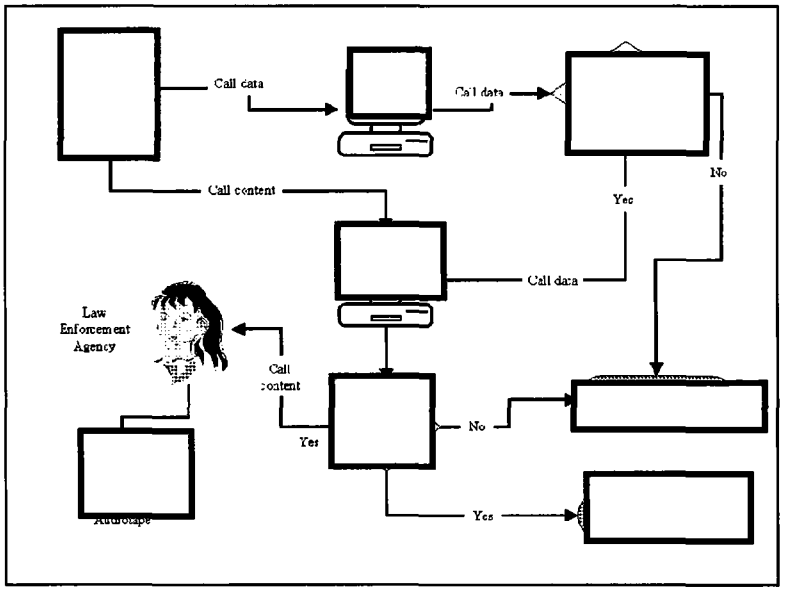


Figure 2-12: Title 3 Data Flow

[redacted]

[redacted] Figure 2-13 displays the DCS Client Configuration window with Title 3 options displayed.

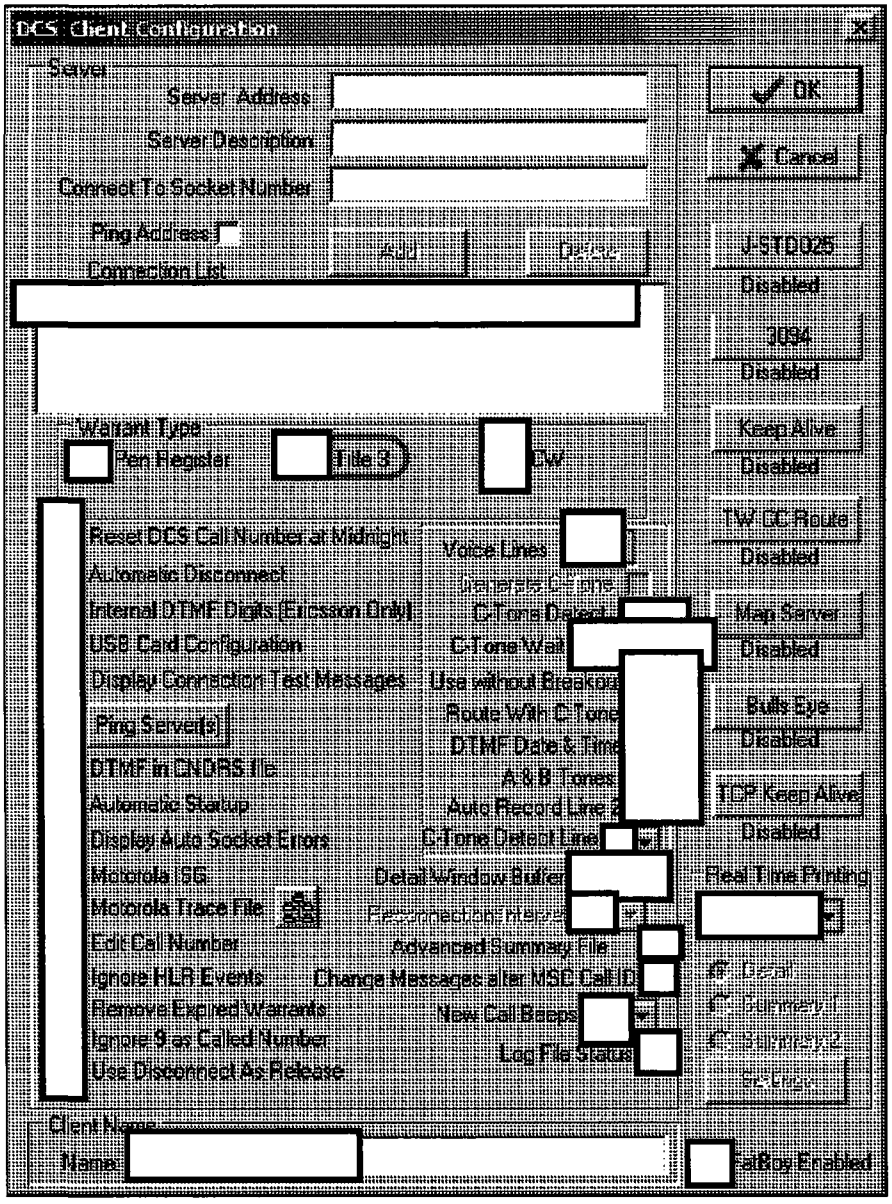


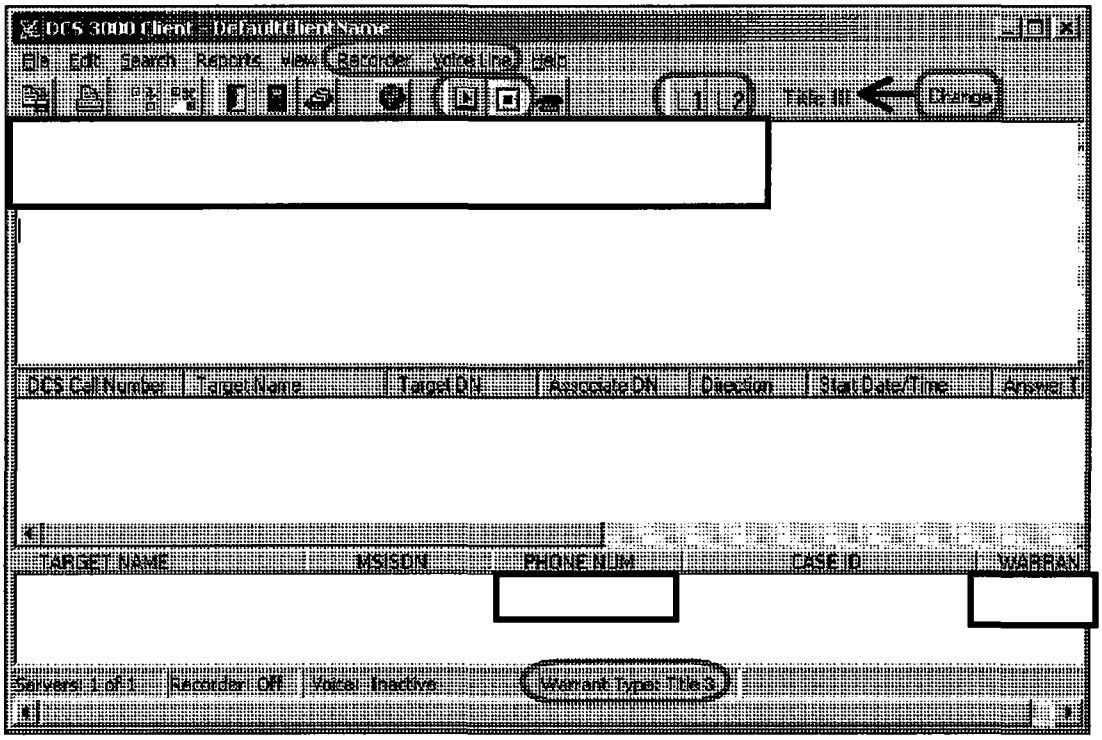
Figure 2-13: DCS Client Configuration Window - Title 3 Options

b2
b7E

[redacted]

Menu and toolbar buttons that are available for Title 3 and CW collections, are displayed in Figure 2-14.

b2
b7E



b2
b7E

b6
b7C

Figure 2-14: Client Window in Title 3 Collection Mode

b2
b7E

Cooperative Warrant (CW) Collections

b2
b7E

Figure 2-15 displays the flow of data for CW collections.

b2
b7E

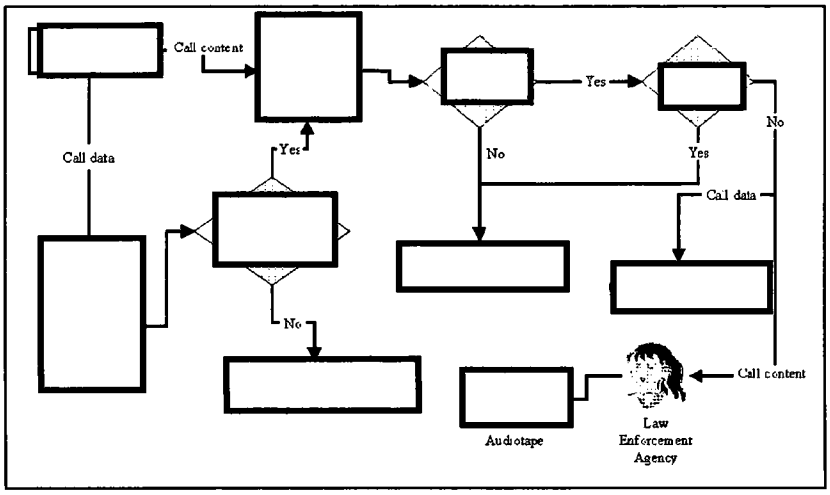


Figure 2-15: Cooperative Warrant Data Flow

b2
b7E

b2
b7E

b2
b7E

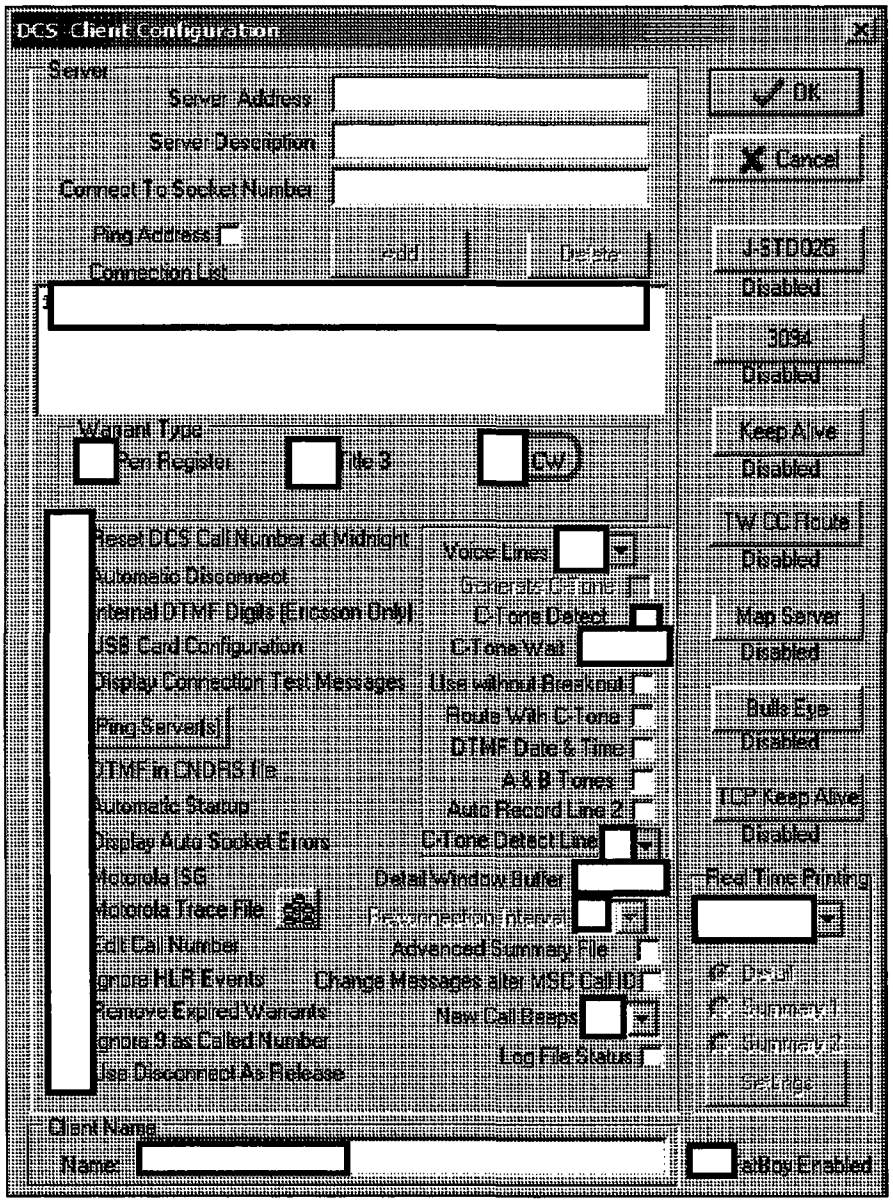


Figure 2-16: DCS Client Configuration Window - CW Options

Certain menus and toolbar buttons are available for CW and Title 3 collections, as displayed in Figure 2-17.

b2
b7E

b6
b7C

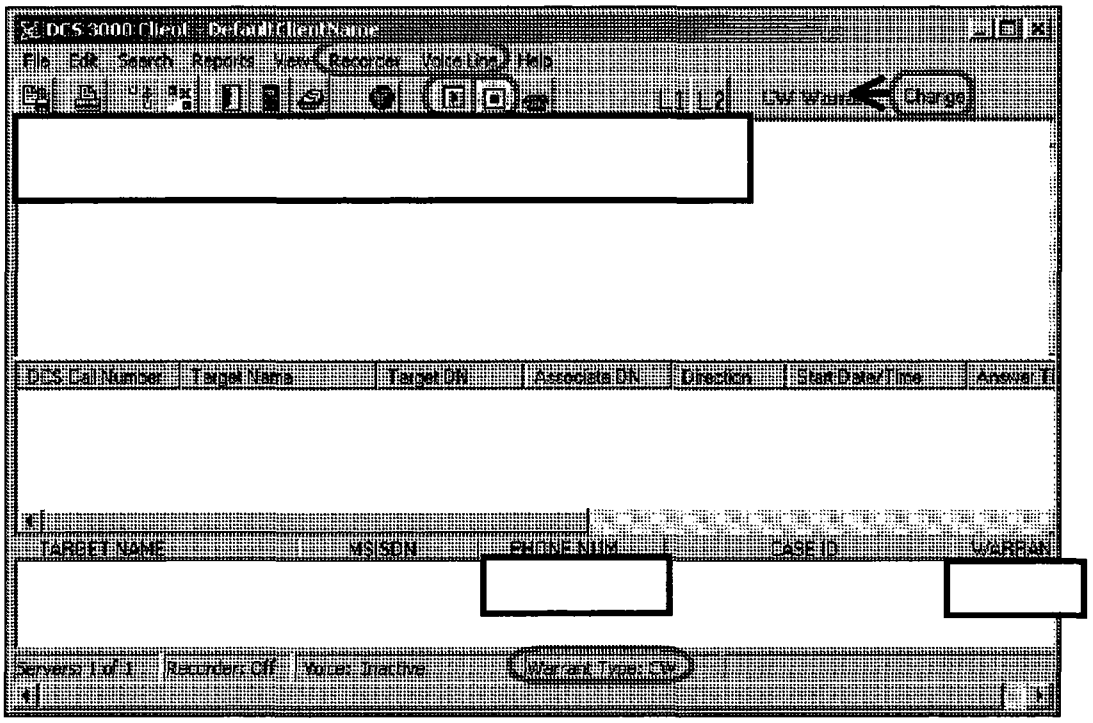


Figure 2-17: Client Window in CW Collection Mode

b2
b7E

Surveillance Targets

A warrant must be obtained before any setup begins.

b2
b7E

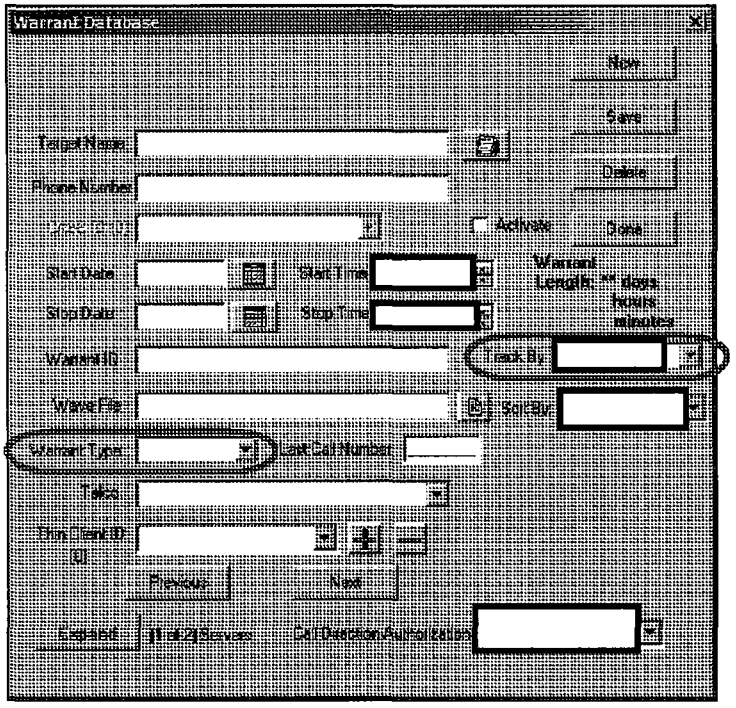
This section includes information and procedures for the following topics:

- Working in the Warrant Database
- Sending and Disabling Targets

Working in the Warrant Database

b2
b7E

Case ID Window



b2
b7E

Figure 2-18: Warrant Database Window - Case ID fields

This table describes the Warrant Database tracked by Case Id fields.

Field	Description
Target name	
Phone Number	
CASE ID	
Activate	
Start Date	
Start Time	
Stop Date	
Stop Time	
Warrant ID	
Wave File	
Warrant Type	
Last Call Number	
Telco	
Thin Client ID (O)	
Expand	
Call Direction Authorization	
Previous	
Next	
New	
Save	
Delete	
Done	
Warrant Length xx days	
Track By	
Sort By	

b2
b7E

Figure 2-18a displays the expanded Target Server Configuration Window.

b2
b7E

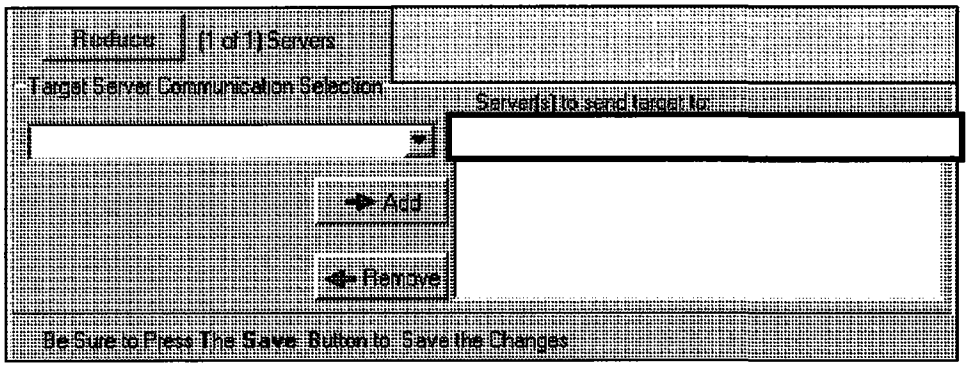


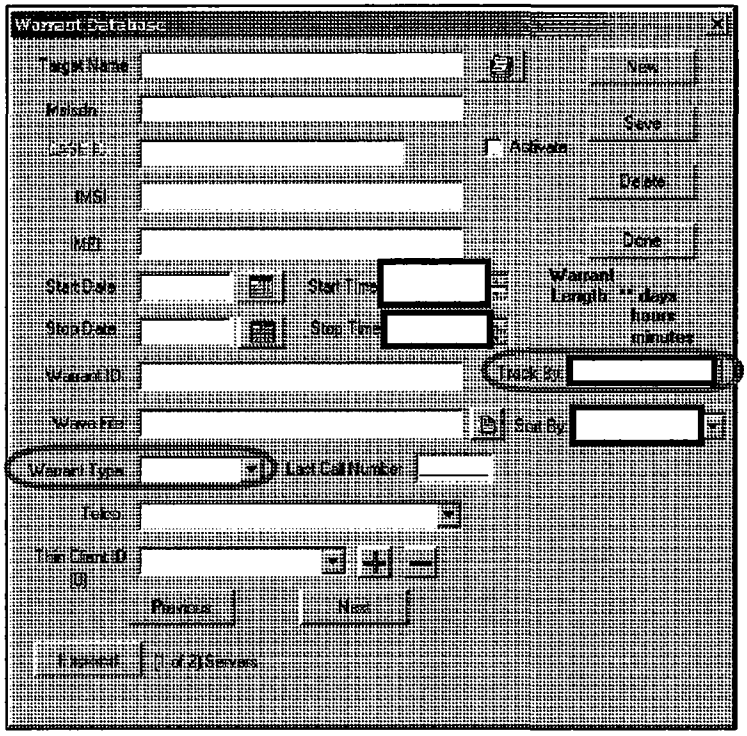
Figure 2-18a: Expanded Portion of the Warrant Database

This table describes the features of the Expand button.

Field	Description
Target Server Selection	
Server(s) to send target to:	
Add	
Remove	
Reduce	

Switch Specific Window

b2
b7E



b2
b7E

Figure 2-19: Warrant Database Window – Switch Specific Fields

This table describes the Warrant Database tracked by Switch Specific fields.

b2
b7E

Field	Description
Target name	
MsIsdn	
CASE ID	
Activate	
IMSI	
IMEI	
Start Date	
Start Time	
Stop Date	
Stop Time	
Warrant ID	
Wave File	
Warrant Type	
Last Call Number	
Telco	

b2
b7E

Field	Description
Thin Client ID (O)	
Expand	
Previous	
Next	
New	
Save	
Delete	
Done	
Warrant Length xx days	
Track By	
Sort By	

Figure 2-19a displays the expanded Target Server Configuration Window.

b2
b7E

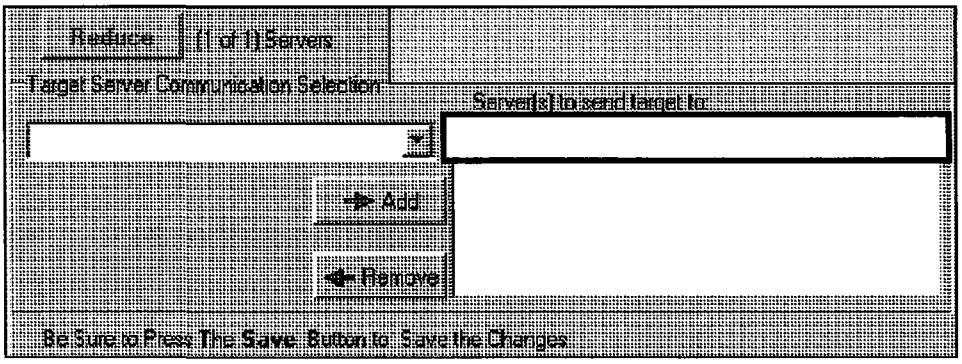


Figure 2-19a: Expanded Portion of the Warrant Database

This table describes the features of the Expand button.

b2
b7E

Field	Description
Target Server Selection	
Server(s) to send target to:	
Add	
Remove	
Reduce	

Cooperative Warrant Window

b2
b7E

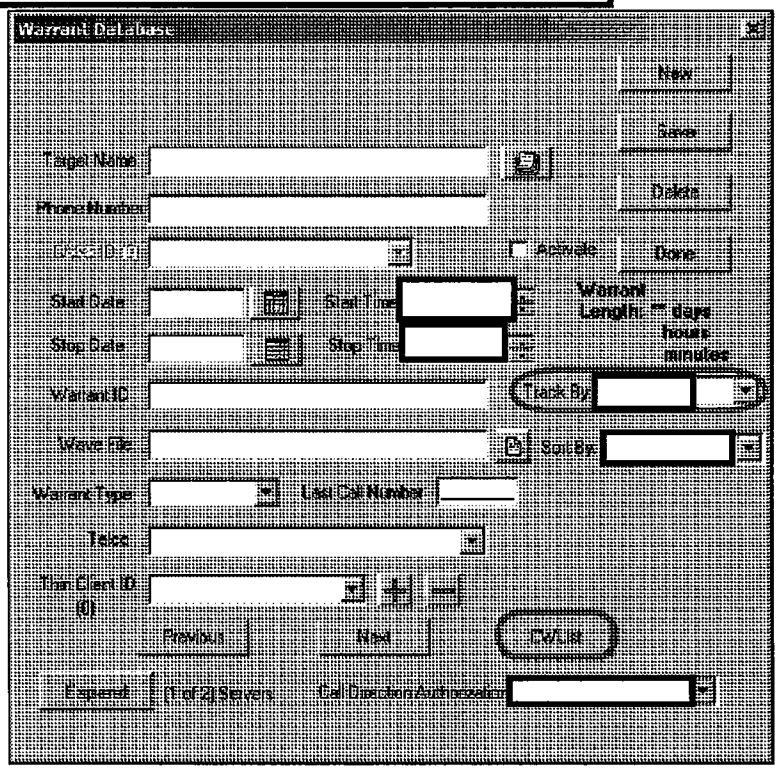
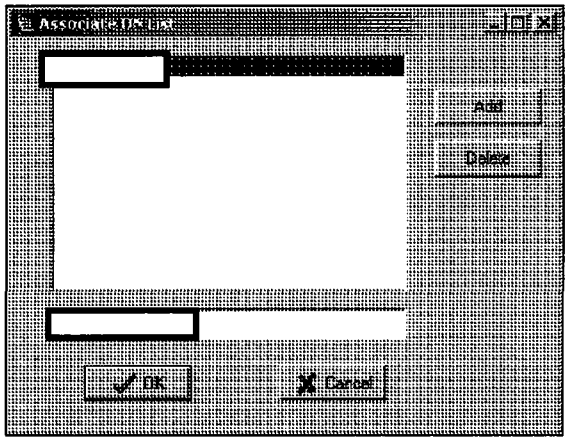


Figure 2-20: Warrant Database Window - Case ID Specific Fields and CW List Button

b2
b7E

b6
b7C



b6
b7C

Figure 2-20a: Associate DN List

This table describes the features of the Associate DN List window.

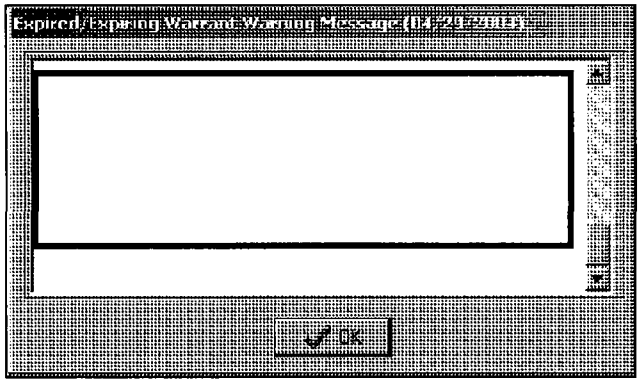
b2
b7E

Field	Description
Associate DN List	
Add	
Delete	

Expired Warrants

b2
b7E

Warrant Database window as outlined in *Chapter 3*.

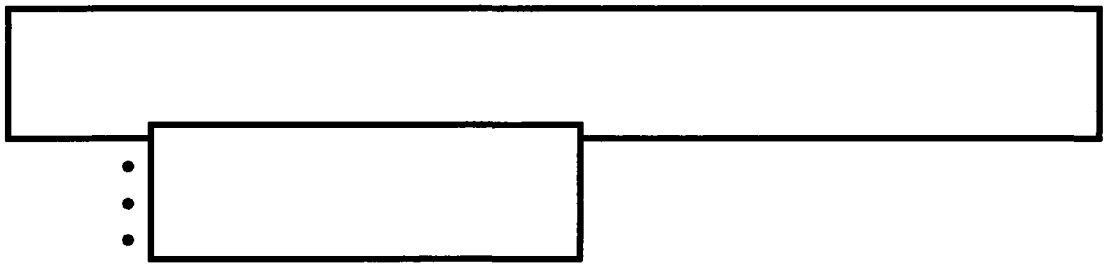


b2
b7E

Figure 2-21: Expired/Expiring Warrant Warning Message

Sending and Disabling Targets

b2
b7E



Sending New Targets

b2
b7E

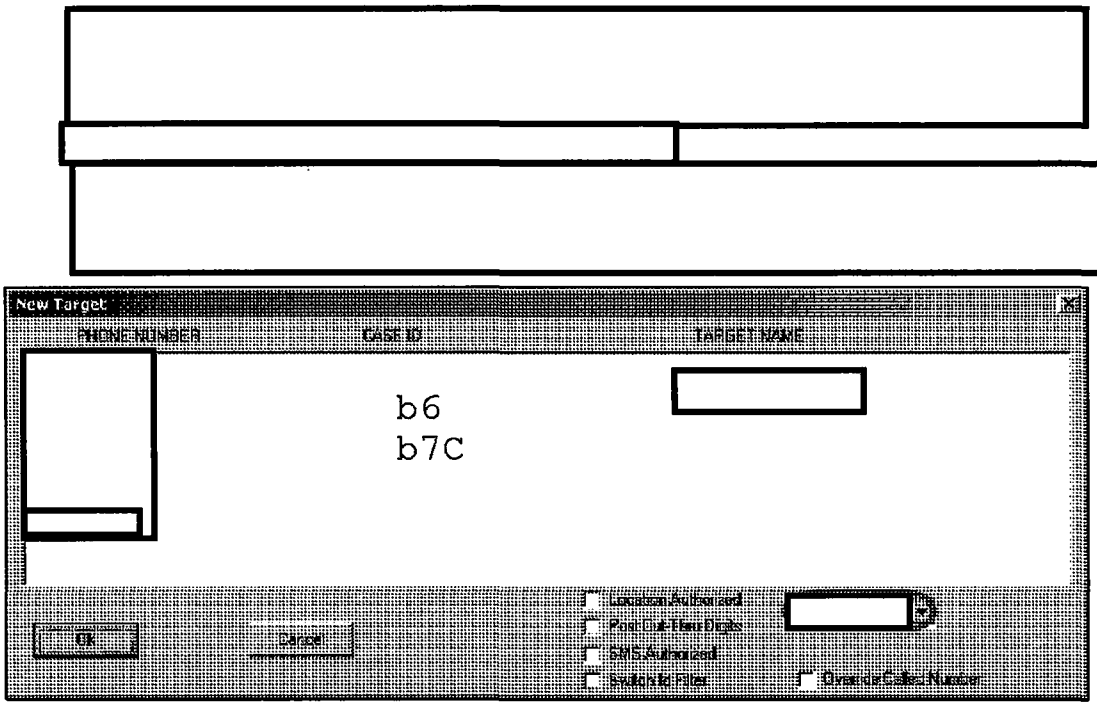


Figure 2-22: New Target Window - Case Id Settings

b2
b7E

This table describes the features of the New Target window (Case Id settings).

b2
b7E

Field	Description
New Target Window	
Case ID/Switch Specific drop-down list	
Location Authorized	
Post Cut-Thru Digits	
SMS Authorized	
Switch Id Filter	
Override Called Number	

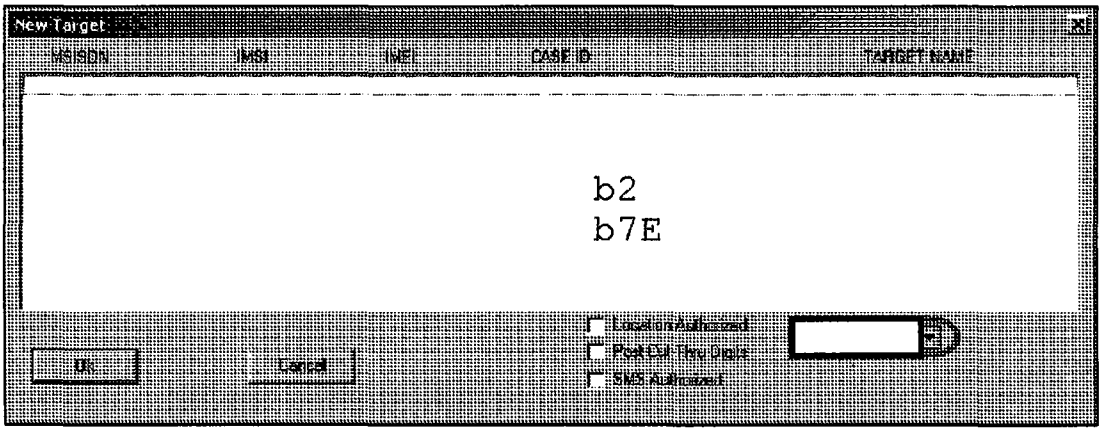


Figure 2-22a: New Target Window - Switch Specific Settings

This table describes the features of the New Target window (Switch Specific settings).

b2
b7E

Field	Description
New Target Window	
Case ID/Switch Specific drop-down list	
Location Authorized	
Post Cut-Thru Digits	
SMS Authorized	

Requesting Target Lists

b2
b6
b7C
b7E

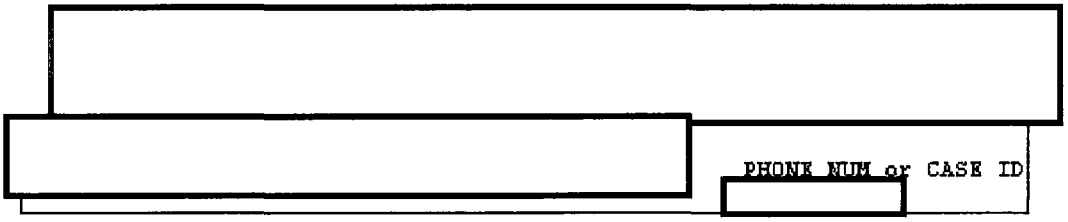


Figure 2-23: Client Displaying a Target List

Suspending Target Surveillance

b2
b7E

b6
b7C

b2
b7E

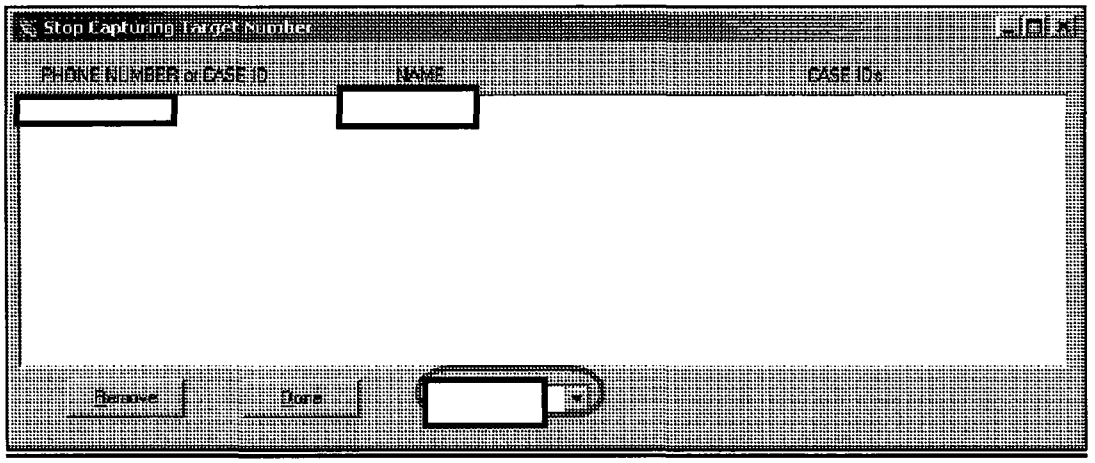


Figure 2-24: Stop Capturing Target Number Window - Case Id Settings

This table describes the features of the Stop Capturing Target Number window with Case Id settings.

b2
b7E

Field	Description
Stop Capturing Target Number Window	
Remove	
Done	
Case ID/Switch Specific drop-down list	

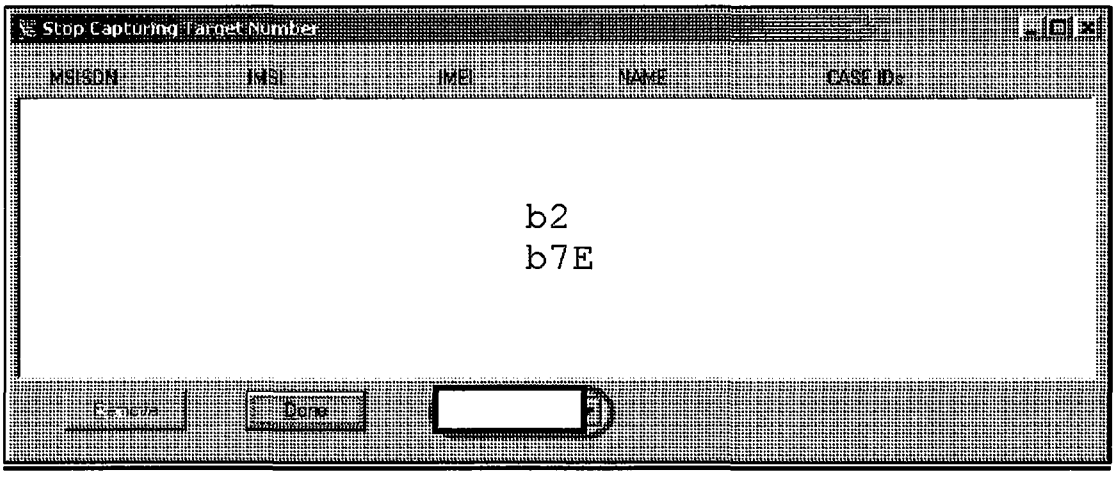


Figure 2-24a: Stop Capturing Target Number Window – Switch Specific Settings

This table describes the features of the Stop Capturing Target Number window with Switch Specific settings.

Field	
Stop Capturing Target Number Window	
Remove	
Done	
Case ID/Switch Specific drop-down list	

b2
b7E