

Switch Based Intercepts Course



Implementation Process

TICTU

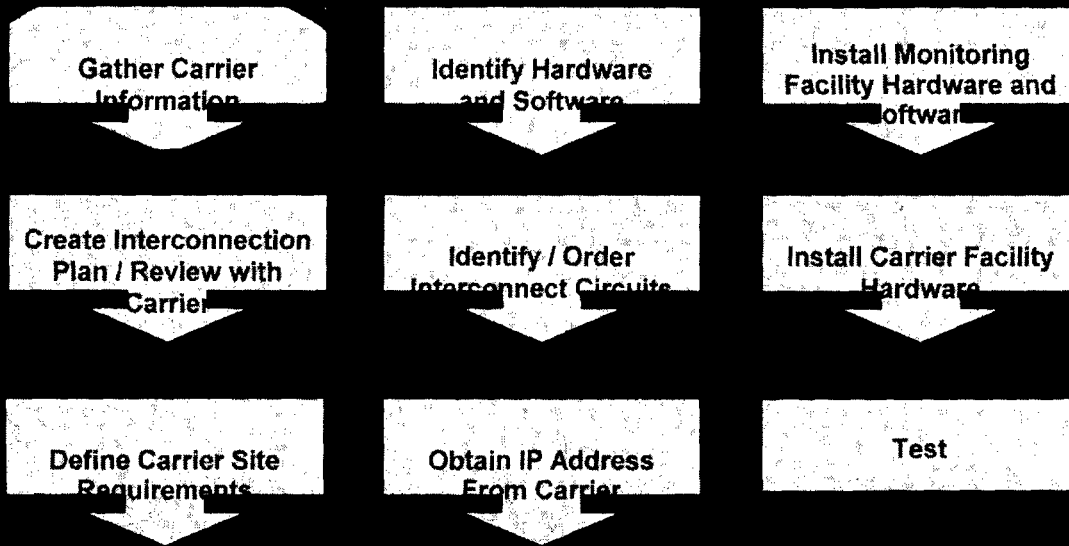


Electronics Technician

SPIC 0102

b6
b7C

DCS-3000 Implementation Process



**Gather Carrier
Information**

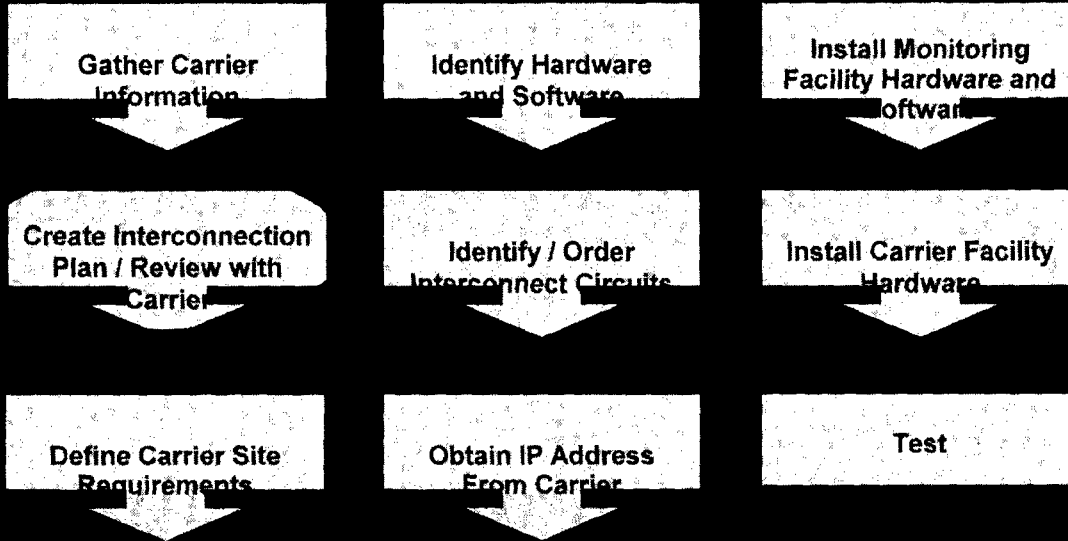
- . Contact [REDACTED] ERF, at [REDACTED]
- . Refer to the CD-ROM provided
- . Establish primary points of contact for legal and technical issues
- . Define carrier's areas of service
- . Identify switching platform (vendor, model, software version)
- . Identify interconnection requirements (e.g., firewall, dial-up restrictions, centralized, etc.)
- . Understand policies and procedures

b6
b7C

**Gather Carrier
Information**

- . **Roaming partner identification**
- . **Fee schedule**
- . **Future switch/software upgrade plans**
- . **Fail-safe measures (e.g., what data can carrier provide if interconnection is disrupted?)**
- . **Reporting / resolving after-hour technical difficulties**
- . **Court orders - will carrier accept faxes; do they have preferred wording?**

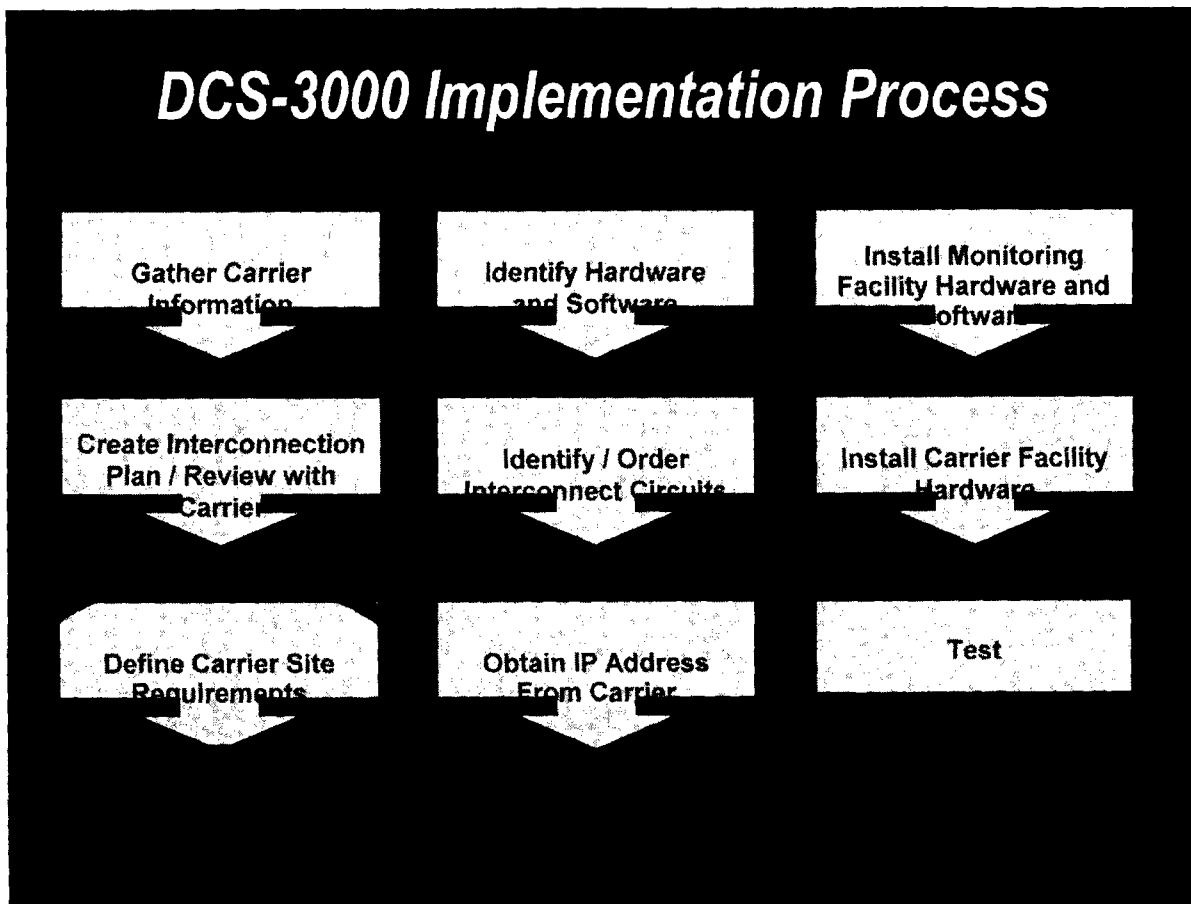
DCS-3000 Implementation Process



Create Interconnection
Plan/Review with Carrier

- . Define carrier configuration (centralized, decentralized, etc.)
- . Identify specific interconnection locations ("Points of Presence") per switch / market

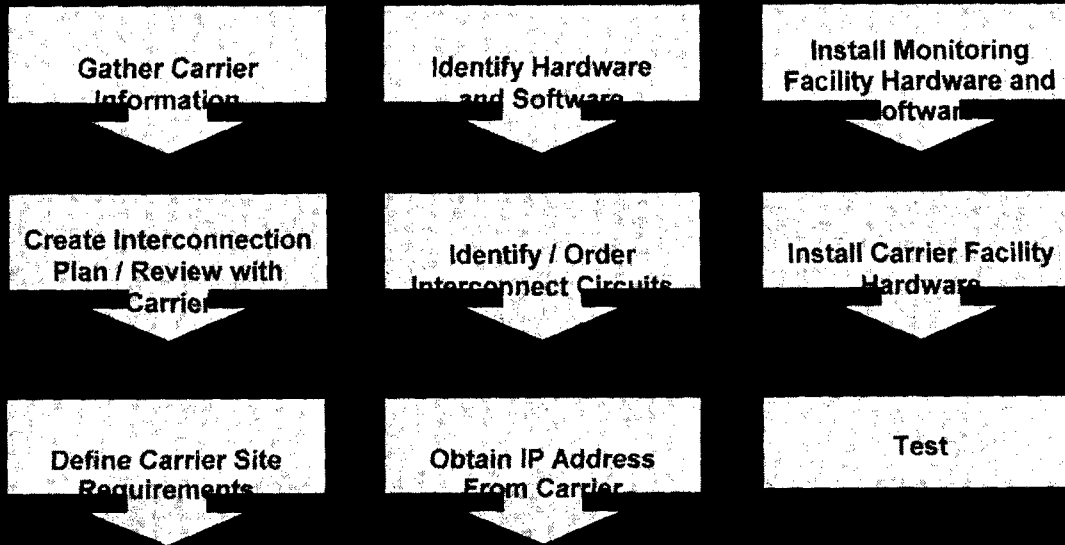
DCS-3000 Implementation Process



**Define Carrier Site
Requirements**

- . **Equipment location (router, modem, etc.)**
- . **Uninterruptable power source**
- . **Location of terminating telco circuit (leased line or POTS)**
- . **Responsibility for cable runs**
- . **Access and security**

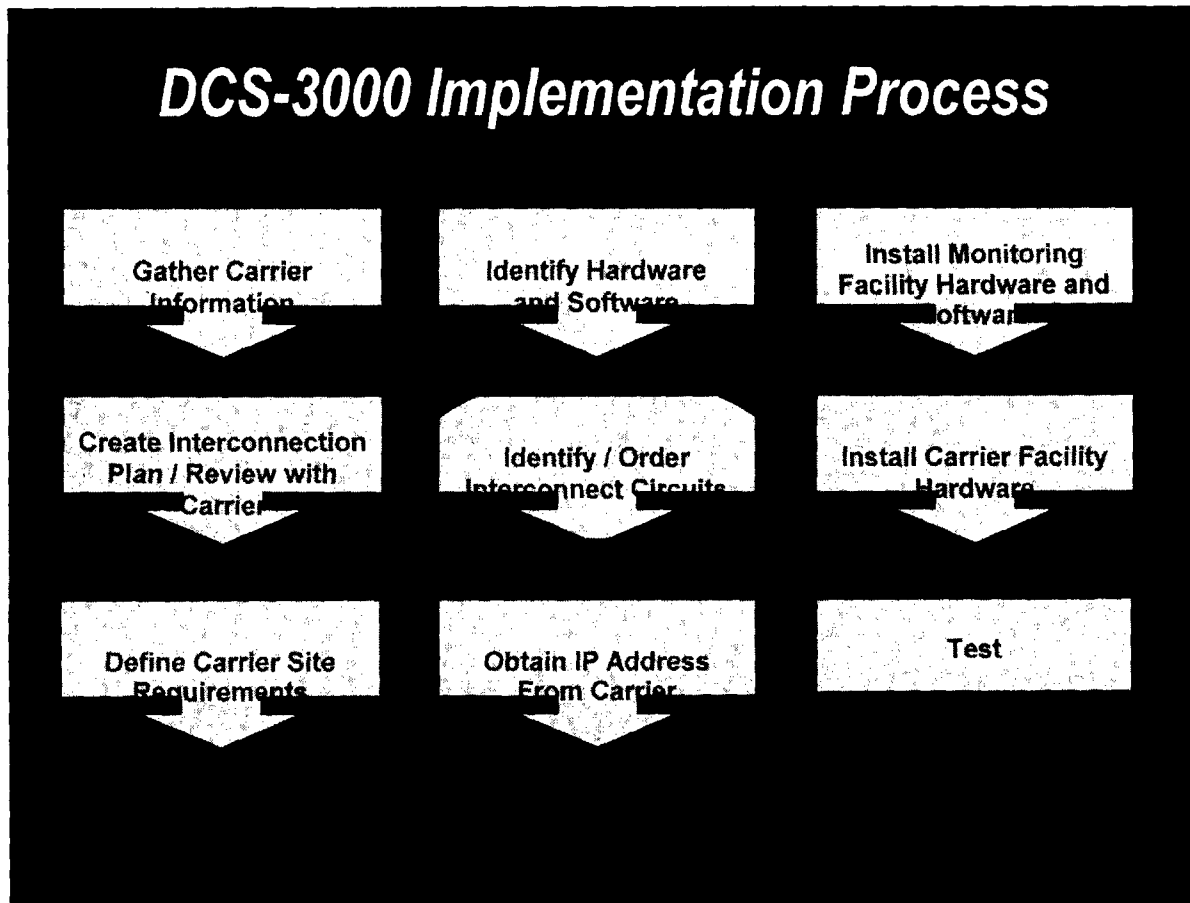
DCS-3000 Implementation Process



**Identify Hardware
and Software**

- . Location of server / client PC
- . Routers
- . Modems
- . Interconnection cables
- . If Title III:
 - Interface card(s)
 - Connection to Voice Box
 - Contact ERF for assistance

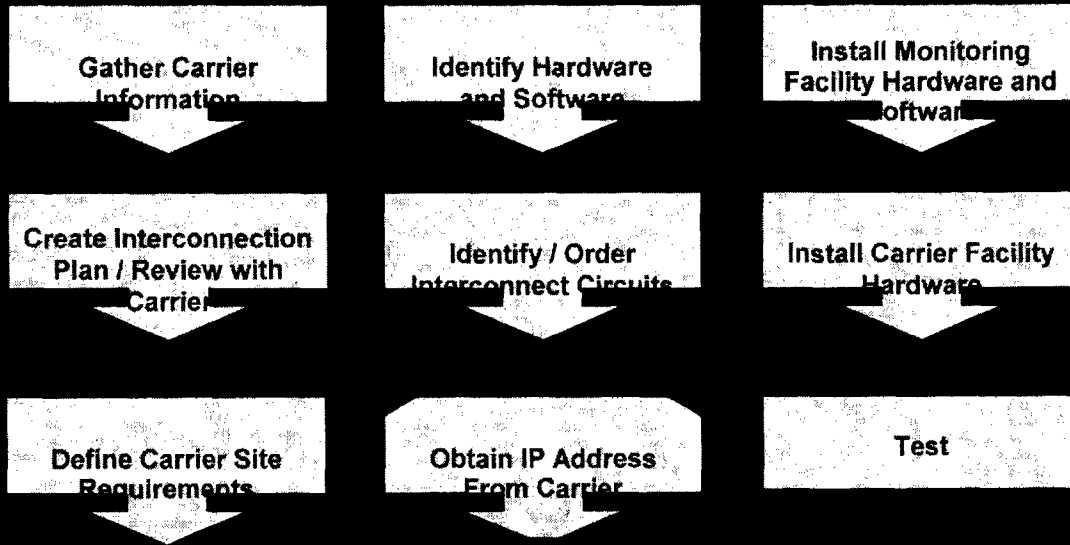
DCS-3000 Implementation Process



**Identify/Order
Interconnect
Circuit**

- . **CCC circuits**
 - Ringdown
 - POTS line at provider and CMP
 - ISDN
- . **CDC**
 - Dial-up
 - Leased line
 - . 2 wire
 - . May be 4 wire in middle

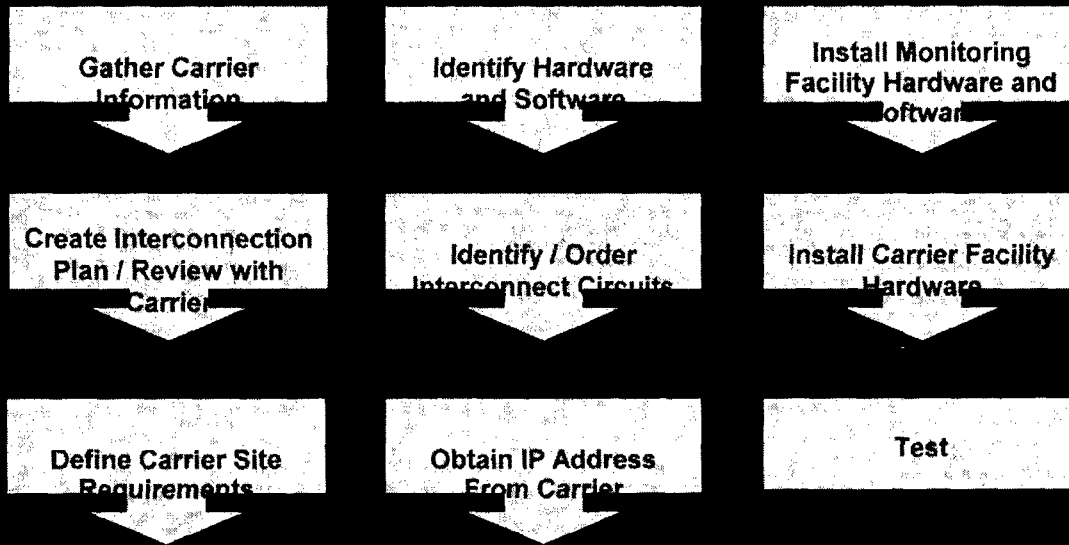
DCS-3000 Implementation Process



**Obtain IP Address
From Carrier**

- . Consult with carrier
- . Obtain IP address of SDM-FT
- . Obtain IP address of E-1
Same network as SDM-FT
- . Provide above information to ERF contact

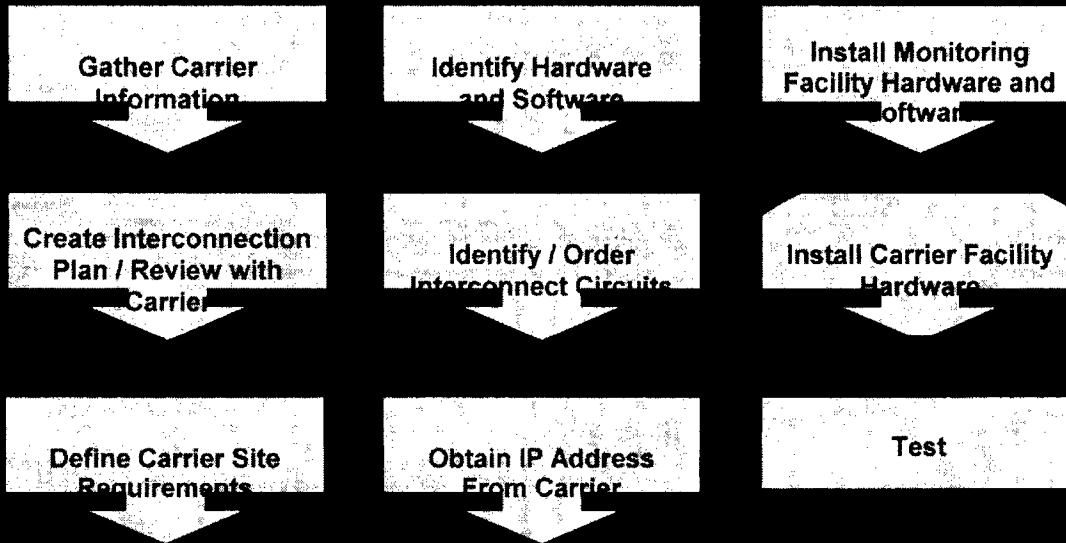
DCS-3000 Implementation Process



**Install Monitoring
Facility Hardware
Software**

- **Monitoring equipment and software is installed in coordination with ERF**

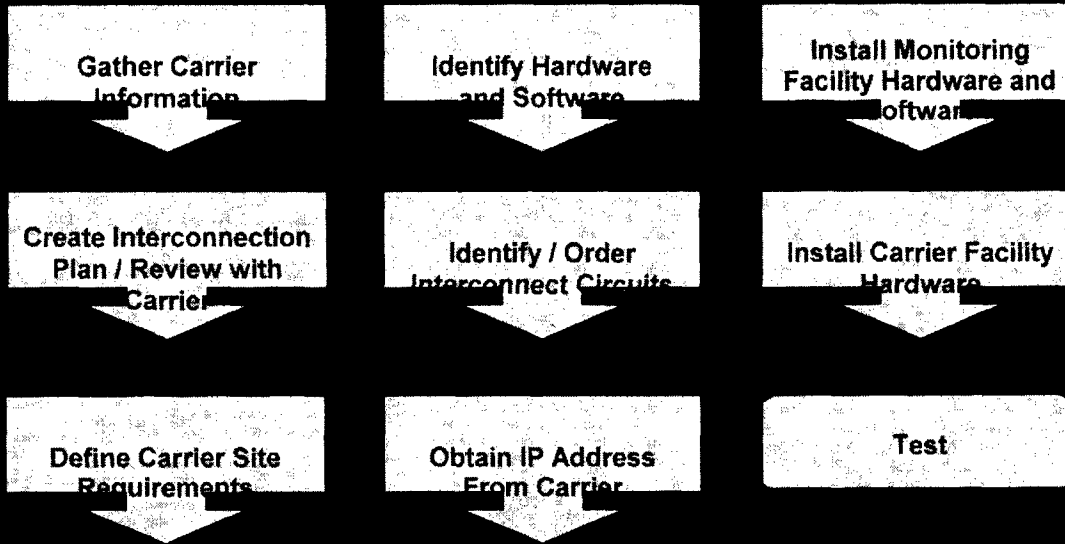
DCS-3000 Implementation Process



**Install Carrier
Facility Hardware**

- . **Coordinate with carrier in advance (during or after regular business hours)**
- . **Advise carrier of LE personnel who will attend**
- . **Have personnel available at monitoring facility for troubleshooting / testing**

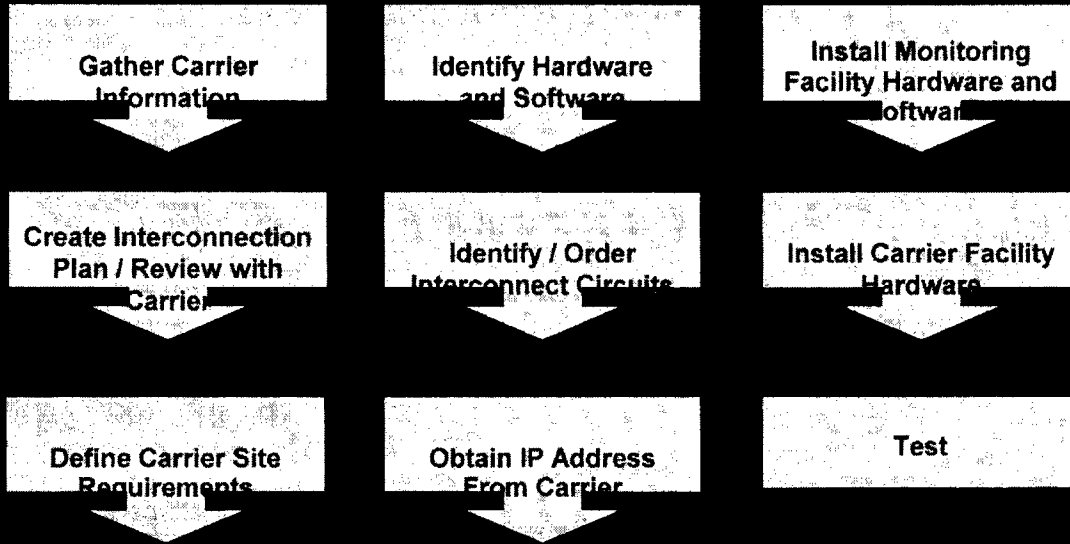
DCS-3000 Implementation Process



Test

- . **Connectivity**
- . **Handset-based functional test for proper messaging**

Questions? Questions? Questions?



Switch Based Intercepts Course

U U

The New Paradigm

DCS 3000

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-30-2007 BY 65179dmh/kst/maj

“Paradigm” Defined

- **Paradigm** An assumption about the ways things work...
- ...the paradigm shift is a term used to discuss the idea of how things are changing, the phrase suggests a change in the overall way the universe is seen

Note: Definitions courtesy of Newton's Telecom Dictionary, 16th Expanded & Updated Edition, 2000, pg. 658

Intercept Evolution

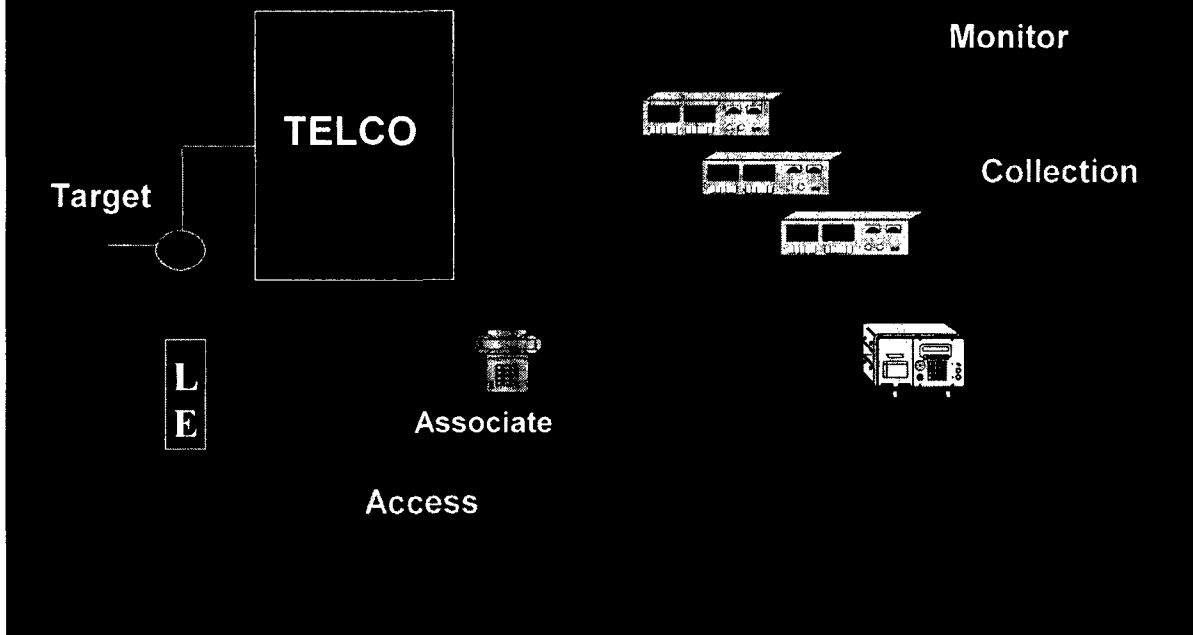
“Wires and Pliers”

“Cables and Tables”

Traditional Paradigm

- ‘Wires & Pliers’
 - In-band signaling (pen-register and audio over the same circuit)
 - ‘DNR-like’ solutions
 - Pen-register data limited to called and calling numbers
 - No intercept capabilities for advanced network features (e.g. call forwarding and speed dialing)

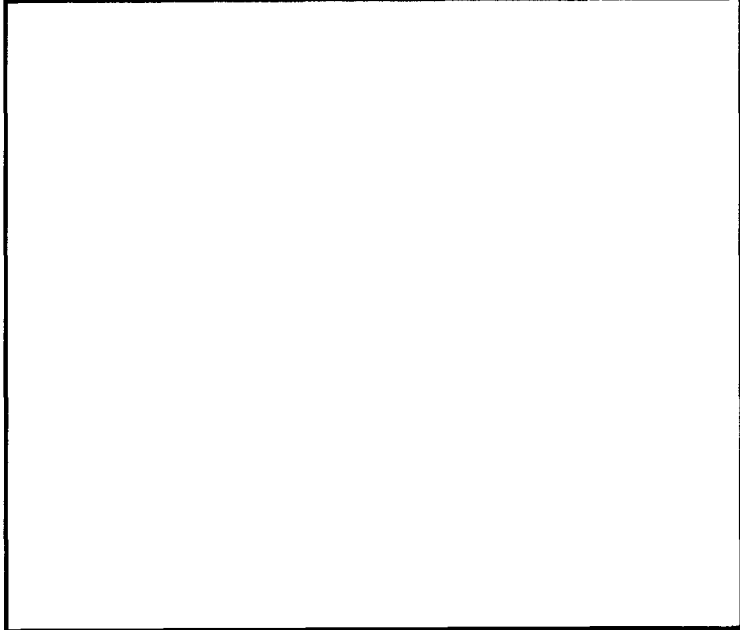
Traditional Intercept



CALEA Paradigm

- ‘Cables & Tables’
 - Separated delivery of pen-register data and audio/call content
 - Switch-based and network-based access
 - Computer-based intercept/collection systems
 - More information available to LEAs (e.g. cell-site location, SMS, and call-forwarding)

Access and Delivery



b2
b7E

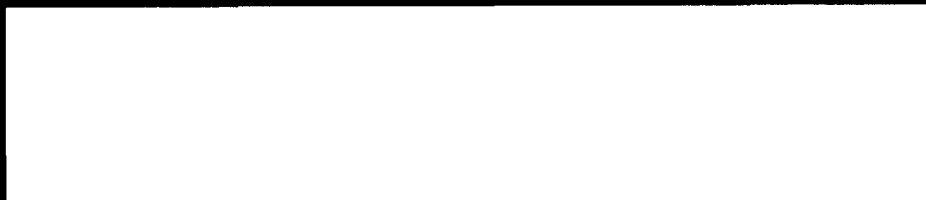
ollection System

CALEA Paradigm

- Call Content Channel (CCC) delivers intercepted content (audio and packet data)
- Call Data Channel (CDC) delivers intercepted pen-register data:
 - Call Serving System
 - Origination and Termination
 - Answer
 - Redirection
 - Call Change
 - Release
 - Packet Envelope

How Long?

- Now ...
 - ... all major switches have intercept features required by CALEA
- By mid-2002 ...



b2
b7E

DCS-3000

- Initially developed for GSM/PCS-1900 switch intercepts
- FBI's first intercept system for CALEA paradigm
- Windows NT-based Client/Server architecture
 - Windows' ease-of-use
 - Flexibility and scalability

DCS-3000 Timeline

11/96

04/97

08/97

11/97

09/00

11/00

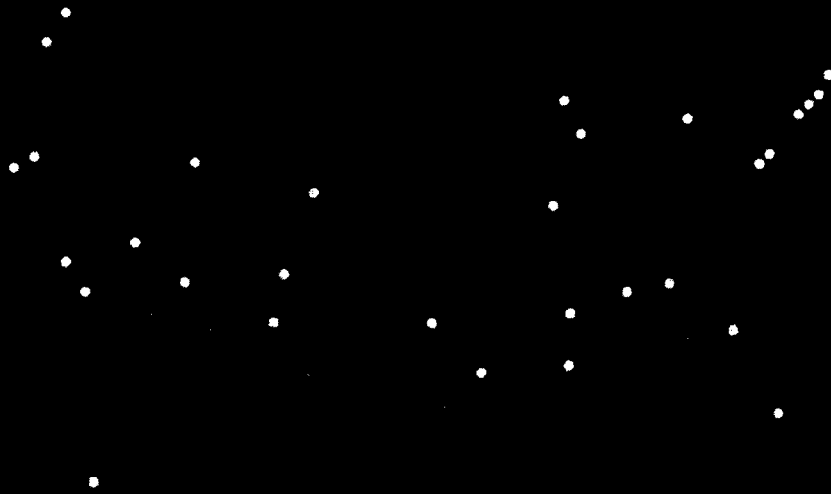
01/02



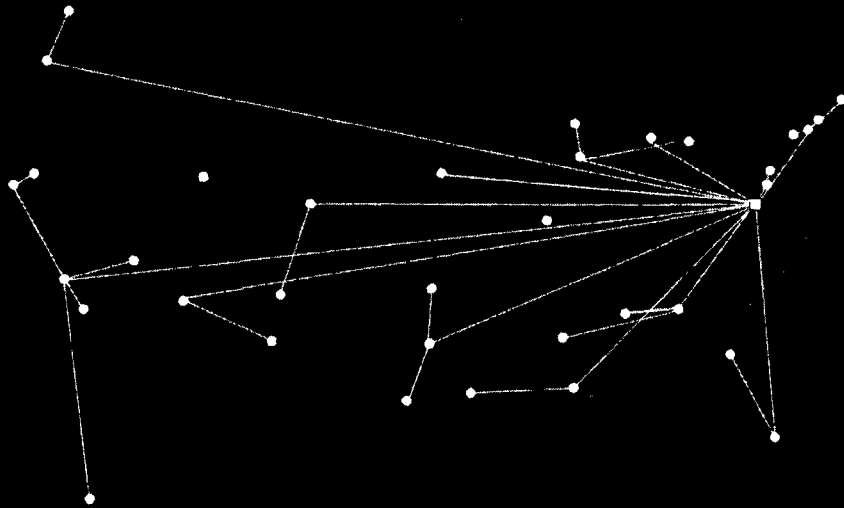
b2
b7E

DCS-3000 Deployments

DCS-3000 Network



DCS-3000 Network



DCS-3000

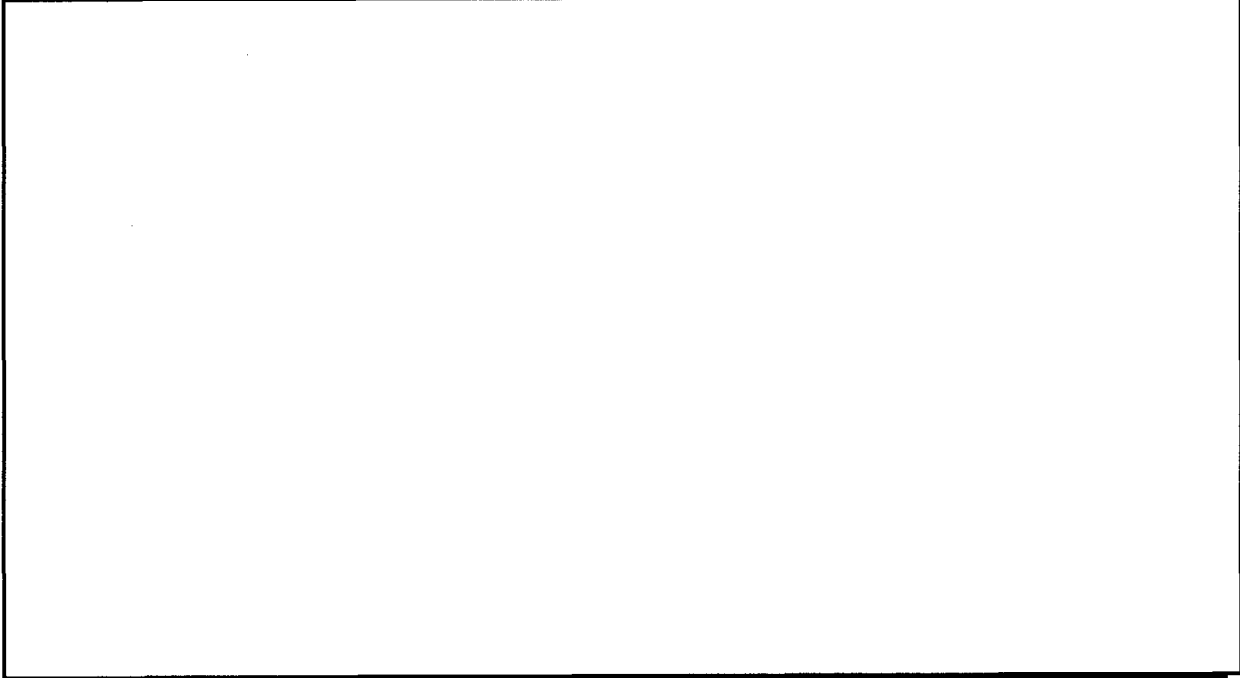
- DCS-3000 is currently deployed in [redacted] FBI field offices and [redacted] switches:
- 

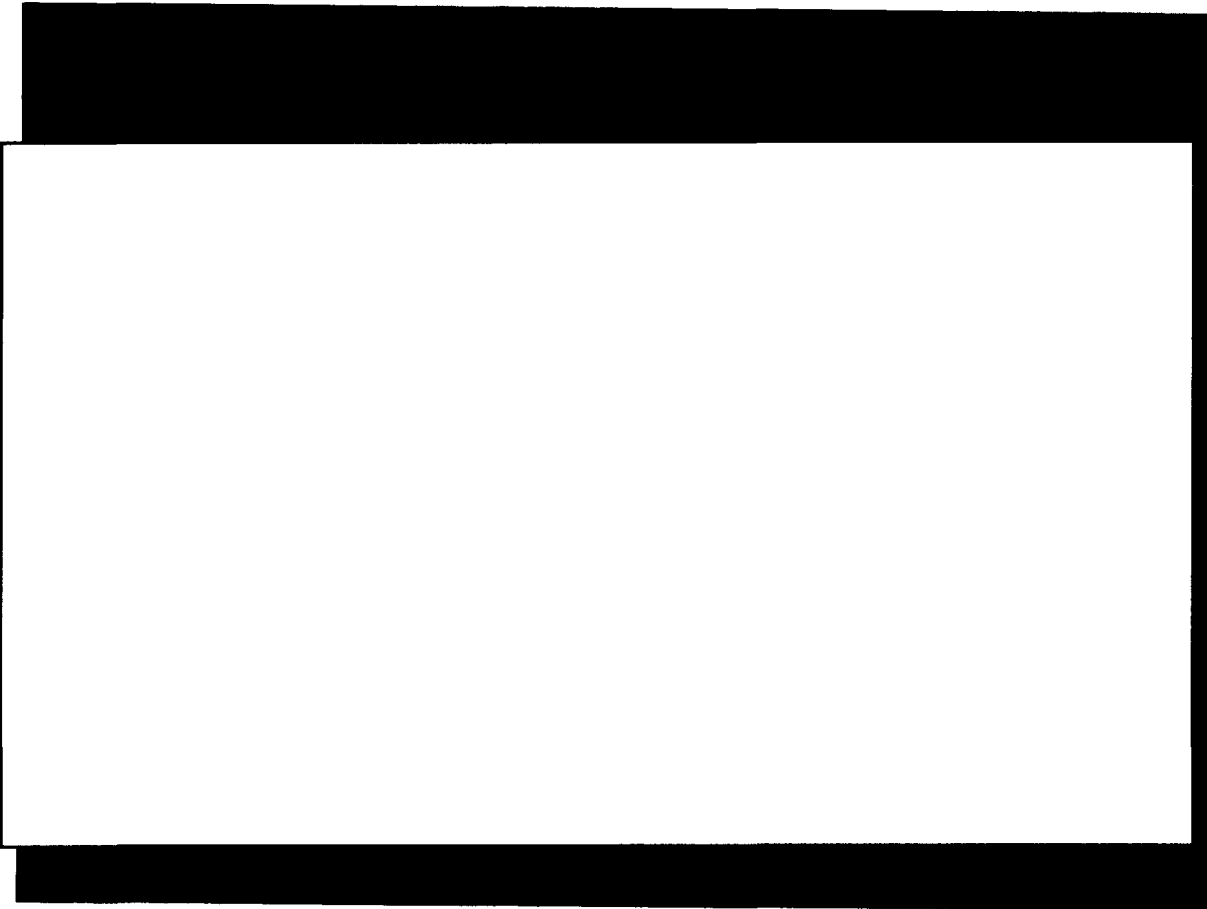
b2
b7E

Switches Intercepted

b2
b7E

Single Switch Configuration





b2
b7E



ELSUR/Service Provider Cooperation

ELSUR/Service Provider Cooperation



b6
b7c

pg-1

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-30-2007 BY 65179dmh/ksr/maj



ELSUR/Service Provider Cooperation

Internet Explorer browser window showing the homepage of the Telecommunications Intercept and Collection Technology Unit (TICRU). The browser title is "Telecommunications Intercept and Collection Technology Unit". The page content includes a navigation menu, a welcome message, and sections for Mission, News, Contacts, Resources, Training, Links, and Downloads.

Telecommunications Intercept and Collection Technology Unit

WELCOME to the TICRU HOME PAGE

Mission

News *"New technology, new threats, new kinds of crime and a shrinking globe are continuously creating new issues. Because of the constantly changing environment, the FBI must anticipate, plan and prepare for the future to a degree and in ways never before imagined."*

Contacts *- Former FBI Director Louis Freeh*

Resources This website contains a wealth of resource materials, links to other websites, a list of TICRU personnel, and information on future training. To use this site:

Links

- Navigation - use the links on the left
- Viewers - in Downloads, lets user view materials in various software formats
- Active links - provides links and addresses to other websites
- Print - click on the page to print, in the browser window click File, select Print
- 508 Accessibility - users requiring accessibility are provided links where needed

Please feel free to contact us at 602.485.6523 with comments on how we can improve the site, or to request the information available.

b2
b6
b7C
b7E



ELSUR/Service Provider Cooperation

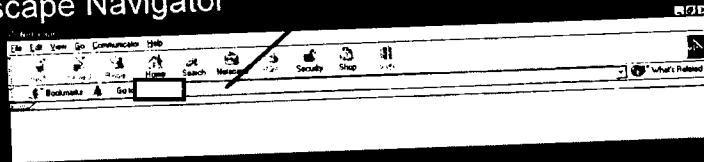
Access through FBI Net

Internet Explorer



Address

Netscape Navigator



b2
b7E

b2
b7E



ELSUR/Service Provider Cooperation

Resources

DCS-3000

Manual

Release Notes

Troubleshooting Tips

Reference Materials

Fone Finder (NPA/NPX decoder)

Carrier-Specific ELSUR Material

CALEA Data

FCC License Information

Course Materials



ELSUR/Service Provider Cooperation

Links

Telecom Carrier Sites
Industry Organizations
Topical News Sources
Privacy Advocacy Groups
AskCALEA.net
North American Numbering Plan

Reminder: Links *not* accessible through FBI Net
LEO Links *are* accessible through



Thank You!

ELSUR/Service Provider Cooperation

ELSUR/Service Provider Cooperation



b6
b7C



Telecommunications Intercept and
Collection Technology Unit

An overview of

S M S

Short Message Services

 EE
Chief Technologist

b6
b7c



pg-1

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-30-2007 BY 65179dmh/ksr/maj

DCS-3000



DCS-3000 software accepts [redacted] messages, capturing and displaying relevant information associated with short message services

b2
b7E

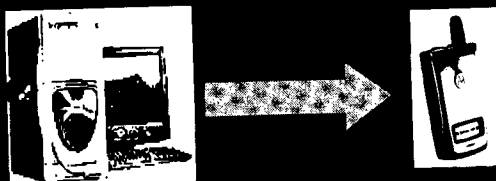


DCS-3000



Example:

Message initiated from carrier's website and transmitted to subscriber



DCS-3000

Internet

b2
b7E

b6
b7C

Insert subscriber's wireless number

DCS-3000

Internet Explorer - MyNavel.com

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Home Stop

Address

MESSAGING MyNavel Home MyNavel Contact Us

b2
b7E

b6
b7C

MESSAGING

From: [Redacted] To: [Redacted]
Subject: [Redacted]

Enter the subject for the message.

Message: This is a SMS text.

Count Characters 0/8

The "Count Characters" feature requires a JavaScript enabled browser such as Netscape Navigator 3.0+ or Microsoft IE 4.0+

Confirmation:

An email confirmation of the delivery status can be obtained by entering an optional email address. Parameter: new sms text and "textid" number followed by "@messaging.naval.com"

By using this messaging feature, you accept the terms of our [Terms of Use](#) and [Privacy Policy](#).

Send Message Schedule For Later Clear

Phone & Rate Plans | Services | Database Support | MyNavel
About Navel | Developer Program | Home | Home

By accessing this site, you accept the terms of our [Terms of Use](#) and [Privacy Policy](#). © 1997-2003 Navel Communications. All rights reserved. [Copyright](#) and [Privacy Policy](#)

Internet

Insert "from" and "subject" info

DCS-3000

File Edit View Favorites Tools Help

Address: b2 b7E

MESSAGING

Message Overview
Send a Message
Send a Group Message
Message Inbox
SMS Messages
Saved Messages
My Phone Messages
Message Status
FAQs
Tutorial
International Travel

To:
From:
Subject:

Enter message here up to 267 characters
This is a SMS test!

Count Characters 0/267

The "Count Characters" feature requires a JavaScript enabled browser such as Netscape Navigator 3.0+ or Microsoft IE 4.0+.

Confirmation:
An email confirmation of the delivery status can be obtained by entering an optional email address. Remember, you can use your digital number followed by "@messaging.military.com".
By using this messaging feature, you accept the terms of our [Acceptable Use Policy and User Agreement](#).

Send Message Schedule For Later Clear

Home & Rate Plans | Services | Customer Support | My Portal
About Us | Developer Program | Settings | Home

By accessing this site, you accept the terms of our [Acceptable Use Policy and User Agreement and Privacy Policy](#). © 1997-2003 Peleto Communications. All rights reserved. [Privacy](#) and [Disclaimer](#) Pages

Done Internet

b6
b7C

Insert message text
This is a SMS test!

DCS-3000

Send a Message | Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address: [Redacted] Go Links

MESSAGING

Nextel Home | MyNextel | Contact Us

Log out

HomeAddress

- Messaging Overview
- Send a Message
- Send a Group Message
- Message Inbox
- Sent Messages
- Saved Messages
- My Phone Messages
- My phone number
- Message Status
- FAQs
- Tutorial
- International Travel

To: [Redacted] From: [Redacted] Enter your name

Subject: [Redacted] Enter the subject for the message

Message: Enter message here up to 257 characters
This is a test.

Count Characters 20

The "Count Characters" feature requires a JavaScript enabled browser such as Netscape Navigator 3.0+ or Microsoft IE 4.0+

Confirmation:

An email confirmation of the delivery of your message can be obtained by entering an optional email address. Remember, you must enter your Nextel number followed by "@messaging.nextel.com".

By using this messaging feature, you accept the terms of our [Acceptable Use Policy and User Agreement](#).

Phone & Rate Plans | Services | Customer Support | MyNextel | About Nextel | Developer Program |itemap | Home

By accessing this site, you accept the terms of our [Acceptable Use Policy and User Agreement](#) and [Privacy Policy](#). © 1999-2003 Nextel Communications. All rights reserved. [Sitemap](#) and [Legal](#)

Done Internet

Click on "send" or schedule for later transmission

b2
b7E

b6
b7C

DCS-3000

DCS-3000

File Edit Search Reports View Help

DCS Call Number	Target DN	Associate DN	Direction	Start Date/Time	Arrives Time	Stop Time	Duration	DTMF Digits	Start Call ID	SMS	System Identity	Call ID

TARGET NAME	MISSION	PHONE NUM	CASE ID	WARRANT STOP	LOC	DIAL DIG	ID FILTER	SMS

Servers: 1 of Recorder C Warrant Type: Pe



DCS-3000

File Edit Search Reports View Help

Target Name: [REDACTED]
Target Number: [REDACTED]
DCS Call Number: [REDACTED]
DCS Server Name: [REDACTED]
DCS Connection Name: [REDACTED]

CALL PACKET ENVELOPE
MSC Call Number: 0011229
Sender: [REDACTED]
Receiver: [REDACTED]
Date: 07/26/2004
Time: 09:41:58 AM
Location Area Code: 1137 C: 60475 MCC/MNC: 3101
ISDN: [REDACTED]
ISDN: [REDACTED]

Non-Termin. This is a SMS text.

Target Name: [REDACTED]
Target Number: [REDACTED]
DCS Call Number: [REDACTED]
DCS Server Name: [REDACTED]
DCS Connection Name: [REDACTED]

CALL PACKET ENVELOPE
MSC Call Number: 0011229
Sender: [REDACTED]
Receiver: [REDACTED]
Date: 07/26/2004
Time: 09:42:11 AM
Location Area Code: 1137 C: 60475 MCC/MNC: 3101
ISDN: [REDACTED]
ISDN: [REDACTED]

DCS Call Number	Target DN	Associate DN	Direction	Start Date/Time	Answer Time	Stop Time	Duration	OTAP Digits	Start Call ID	SHS	Custom	Call ID
0	[REDACTED]	000000012	Incoming	07/26/2004 09:41:58					1107C:60475:MCC/MNC:3101	[REDACTED]		[REDACTED]

TARGET NAME	WISDN	PHONE NUM	CASE ID	WARRANT STOP	LOC	TRIAL DRE	ID FILTER	SHS
		[REDACTED]		11/26/2004	Y	Y	N	Y

Servers: 1 of Recorder: C Warrant Type: Pe

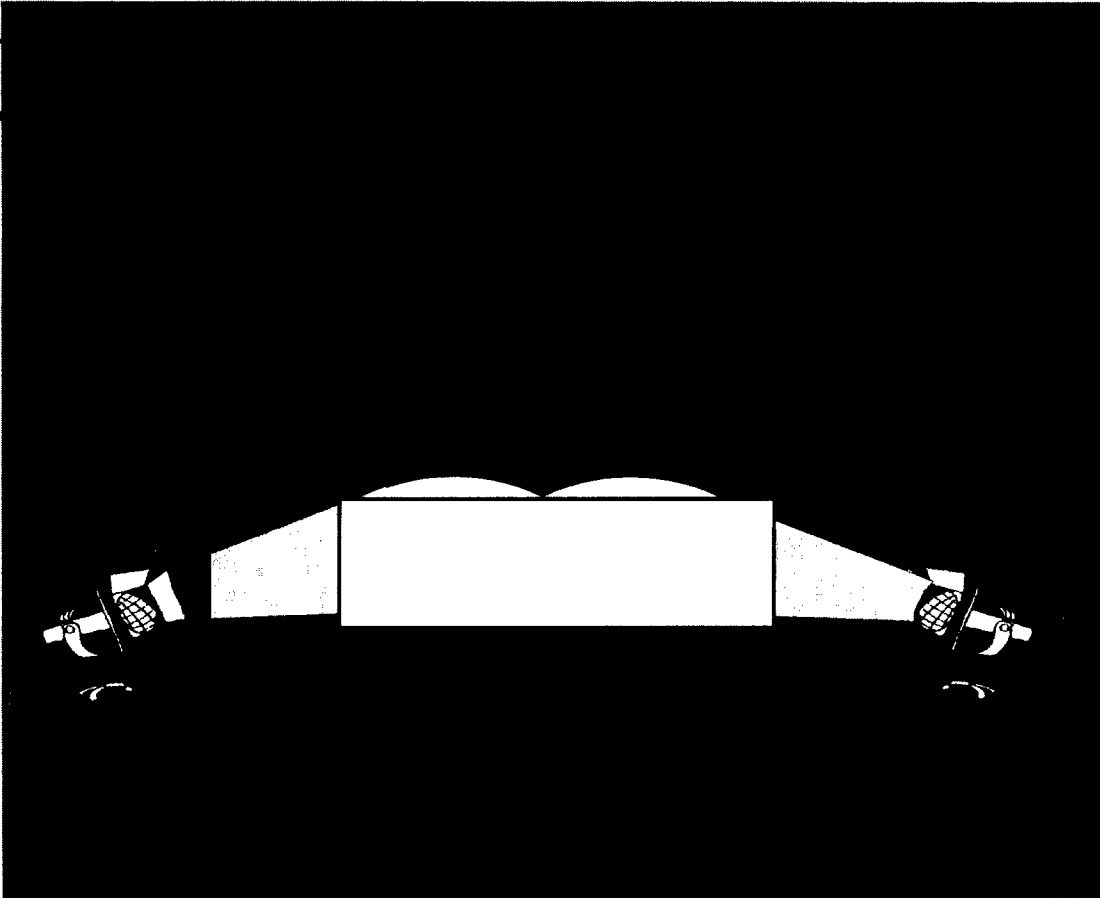
b2
b7E b6
b7C

b2
b6
b7C
b7E



TIC

TICTU East Coast Conference

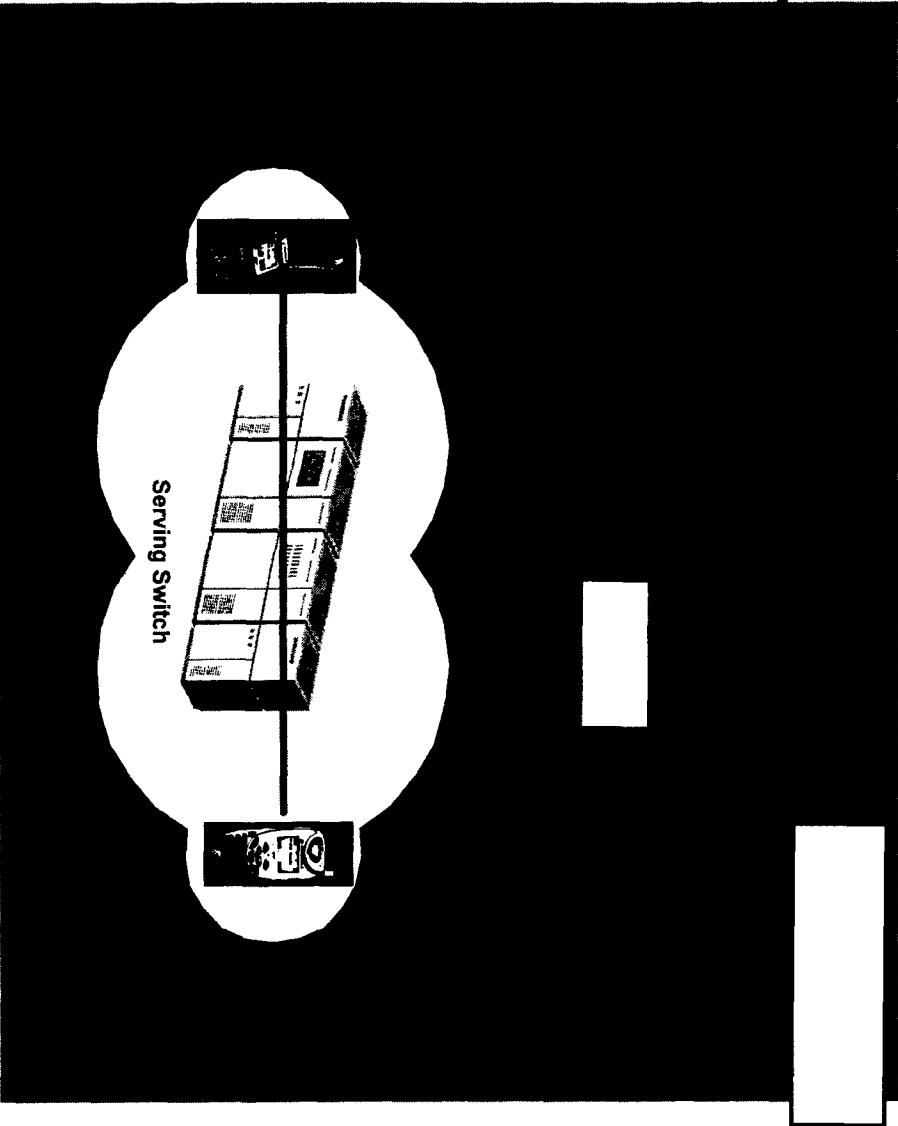


b2
b7E

pg-1

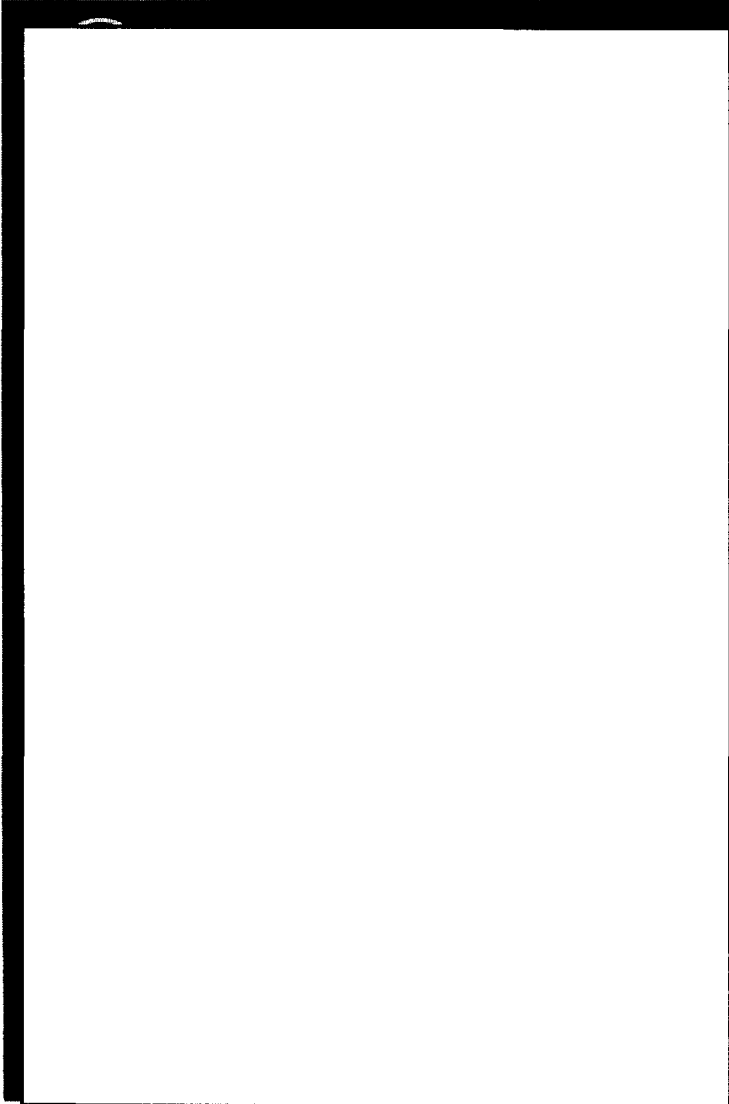
ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-30-2007 BY 65179dmh/ksr/maj

TICTU East Coast Conference



pg-2

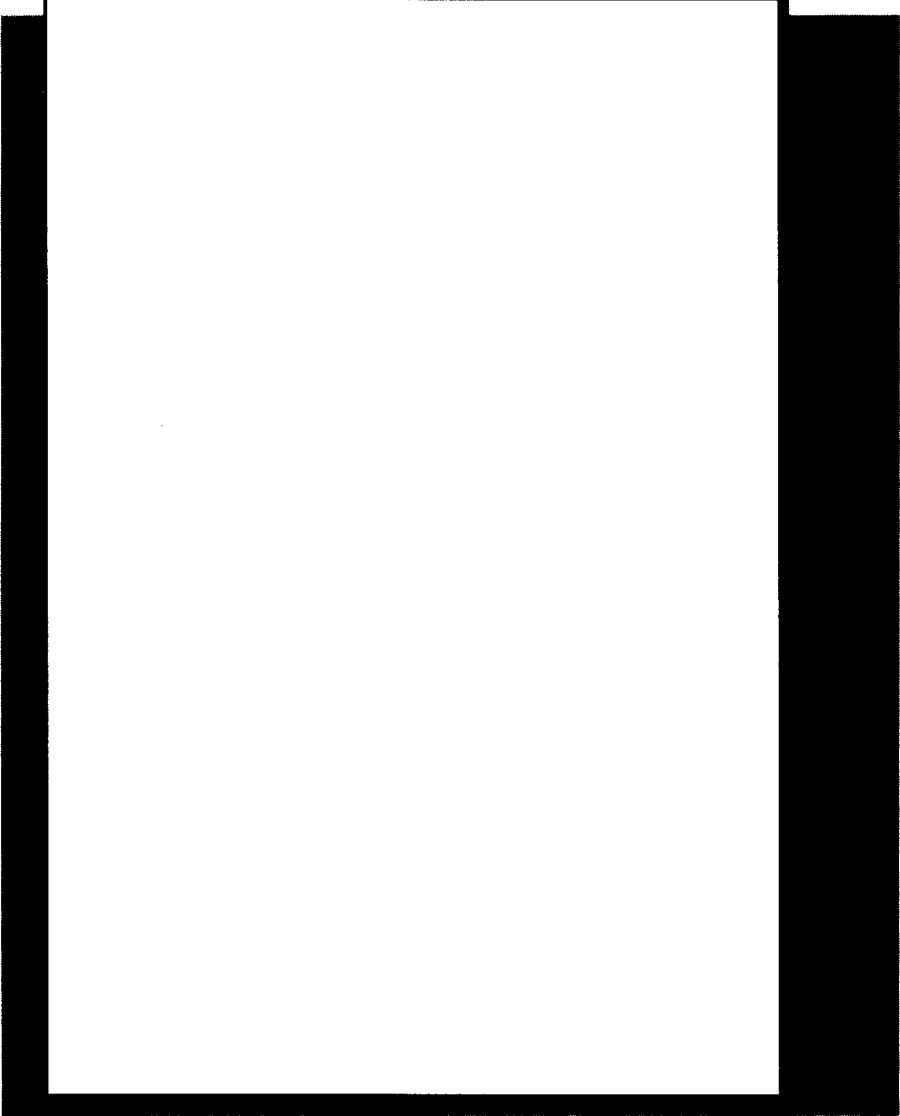
TICTU East Coast Conference



pg-3

b2
b7E

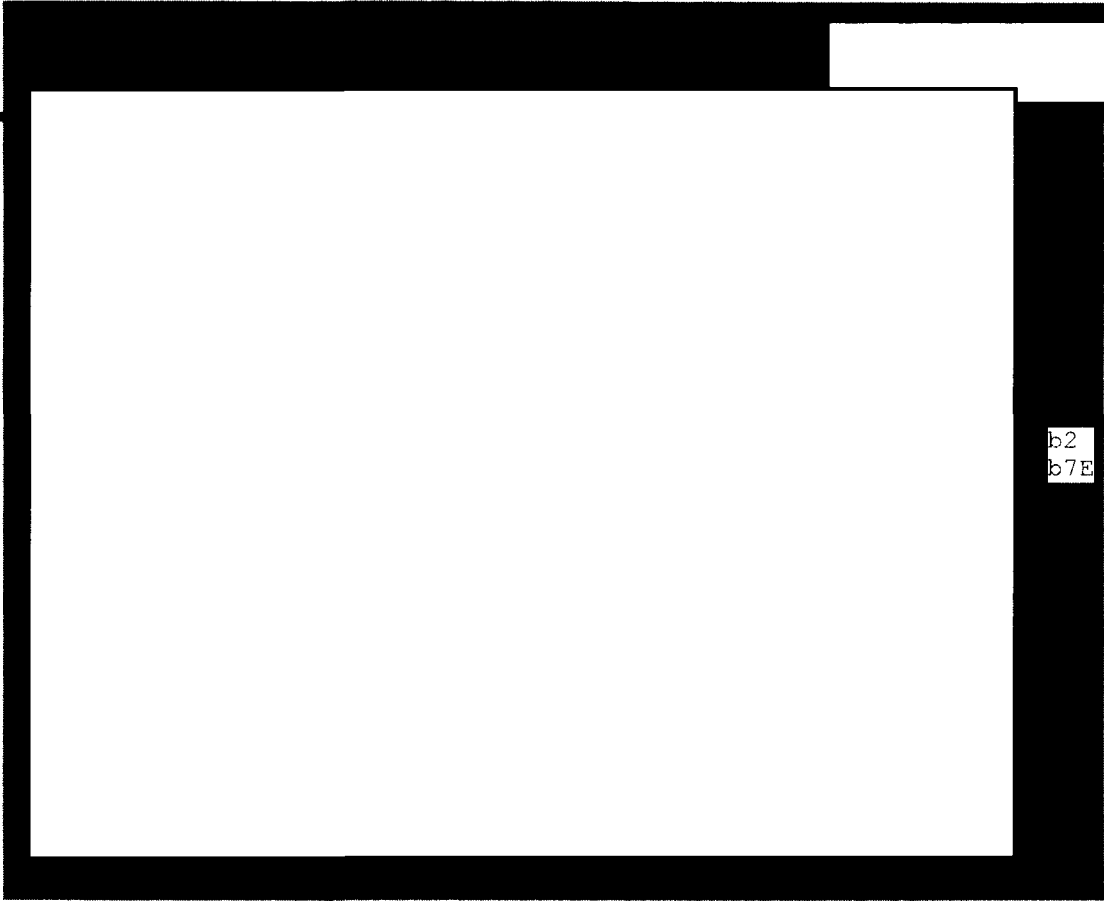
TICTU East Coast Conference



pg-4

b2
b7E

TICTU East Coast Conference



b2
b7E

b2
b7E

Same Switch

CALL DATA CHANNEL

- TCP/IP
- Typically leased line with modem pair

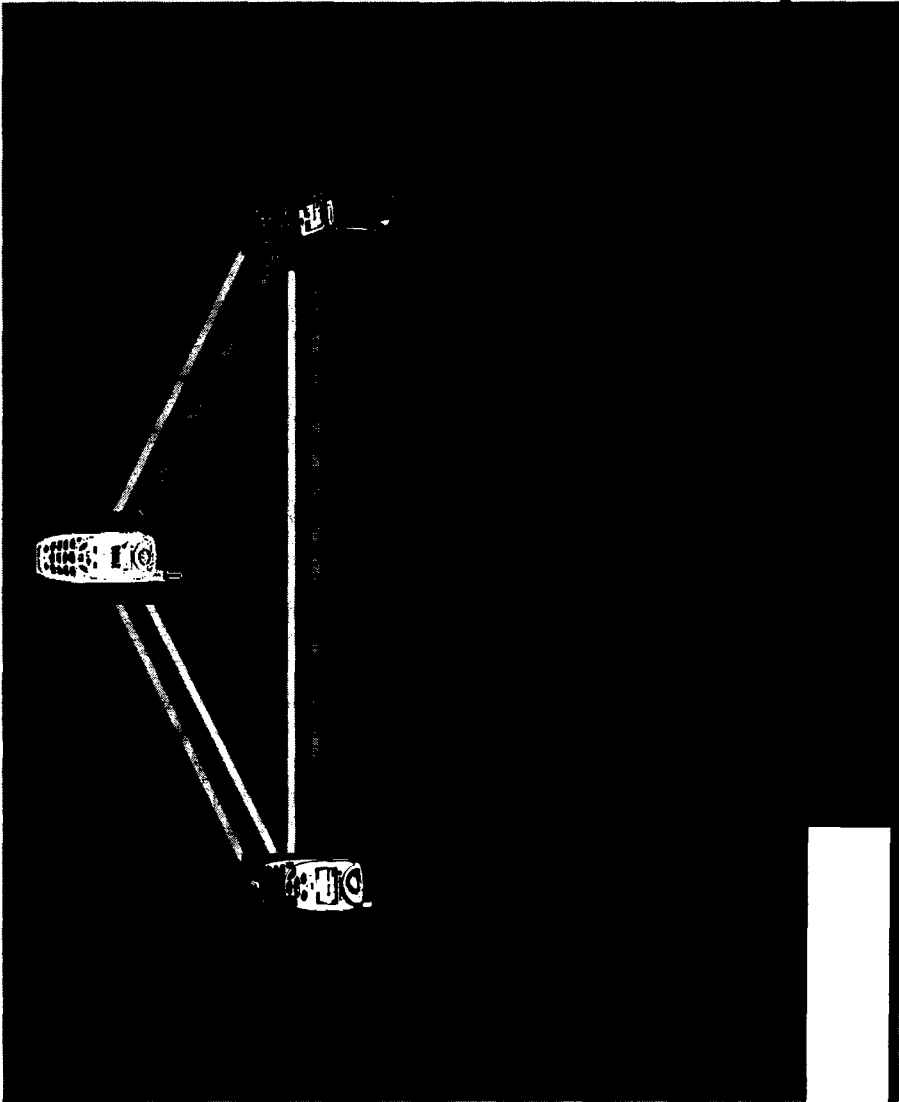
CALL CONTENT CHANNEL

- Dial out from switch via ISDN Basic Rate Interface (BRI)
- Call forward busy on B1

b2
b7E

b2
b7E

TICTU East Coast Conference

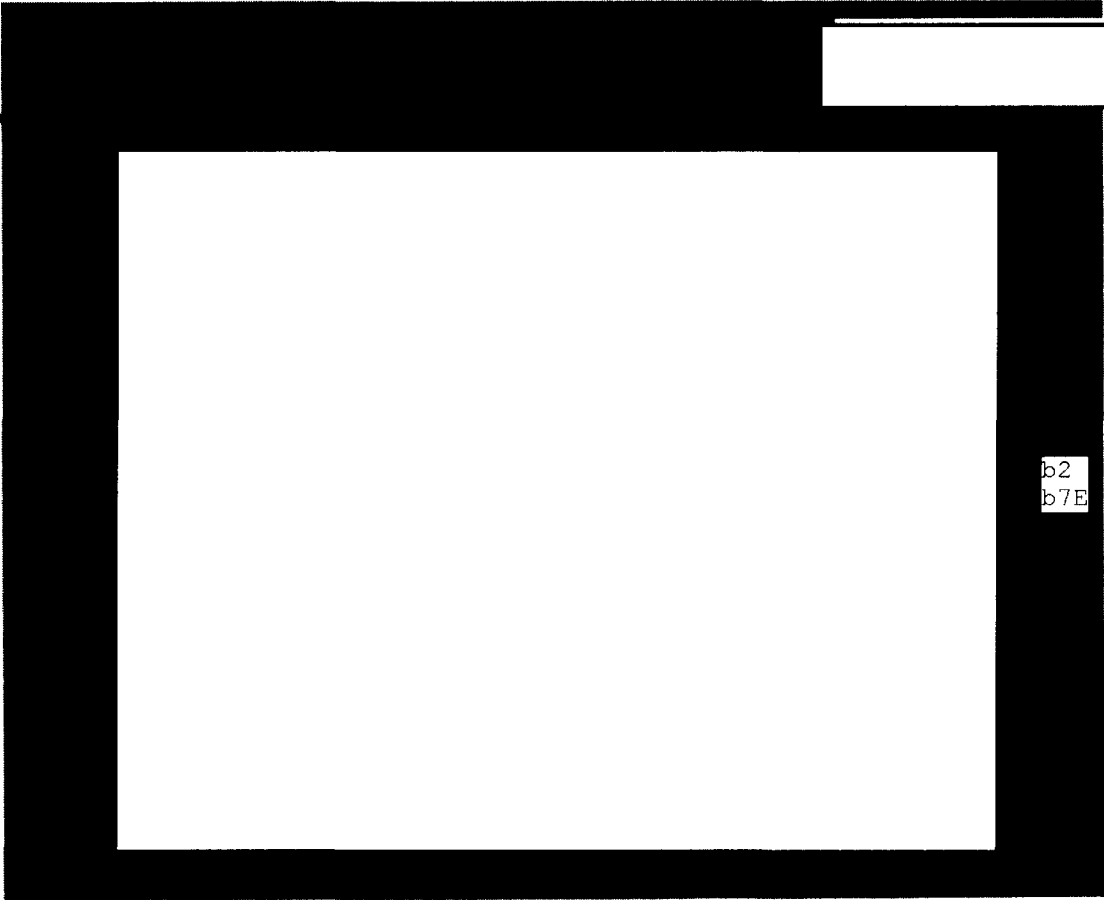


pg-7



b2
b7E

TICTU East Coast Conference



[Redacted]

b2
b7E

b2
b7E



- CALL DATA CHANNEL**
- TCP/IP
 - Typically 56K (or greater) dedicated circuit

- CALL CONTENT CHANNEL**
- UDP/IP over CDC
 - VSELP encoded



Switch-Based Intercept Team

- The Switch-Based Intercept Team develops, procures, and deploys capabilities to perform pen-register, Title III and Title 50 interceptions on emerging telecommunications networks. The Team develops, deploys, and maintains capabilities for conducting electronic intercepts, direction finding, and terminal identification on emerging wireless telecommunications networks.



b2
b7E

DCS 3000



Switch Based Intercepts Course

0 0
Basic Troubleshooting

DCS 3000

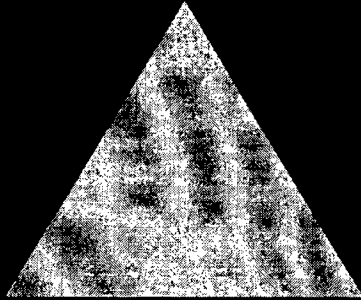
pg-1

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-30-2007 BY 65179dmh/ksr/maj

Troubleshooting

- Troubleshooter - noun; an *expert* employed to *locate trouble* and *make repairs* in technical equipment.

Reference Model



Application Layer

Network Layer

Physical Layer

Reference Model

- Physical Layer
 - mechanical, electrical, and procedural interfaces, and the physical transmission medium
 - Phone line connection
 - Ethernet connection
 - RS-232 serial connection

Reference Model

- Network Layer
 - Responsible for routing packets from source to destination
 - TCP/IP, X.25, RS-232 protocol layer
 - Routers
 - Modems

Reference Model

- Application Layer
 - Software layer
 - DCS-3000 Server and Client
 - Switch call intercept system (e.g. SDM & CIPC)
 - Responsible for decoding, processing, and storage
 - File transfer
 - ASN.1 decoding

Troubleshooting Tools

- ipconfig
 - Displays the current TCP/IP settings on the command line

Troubleshooting Tools

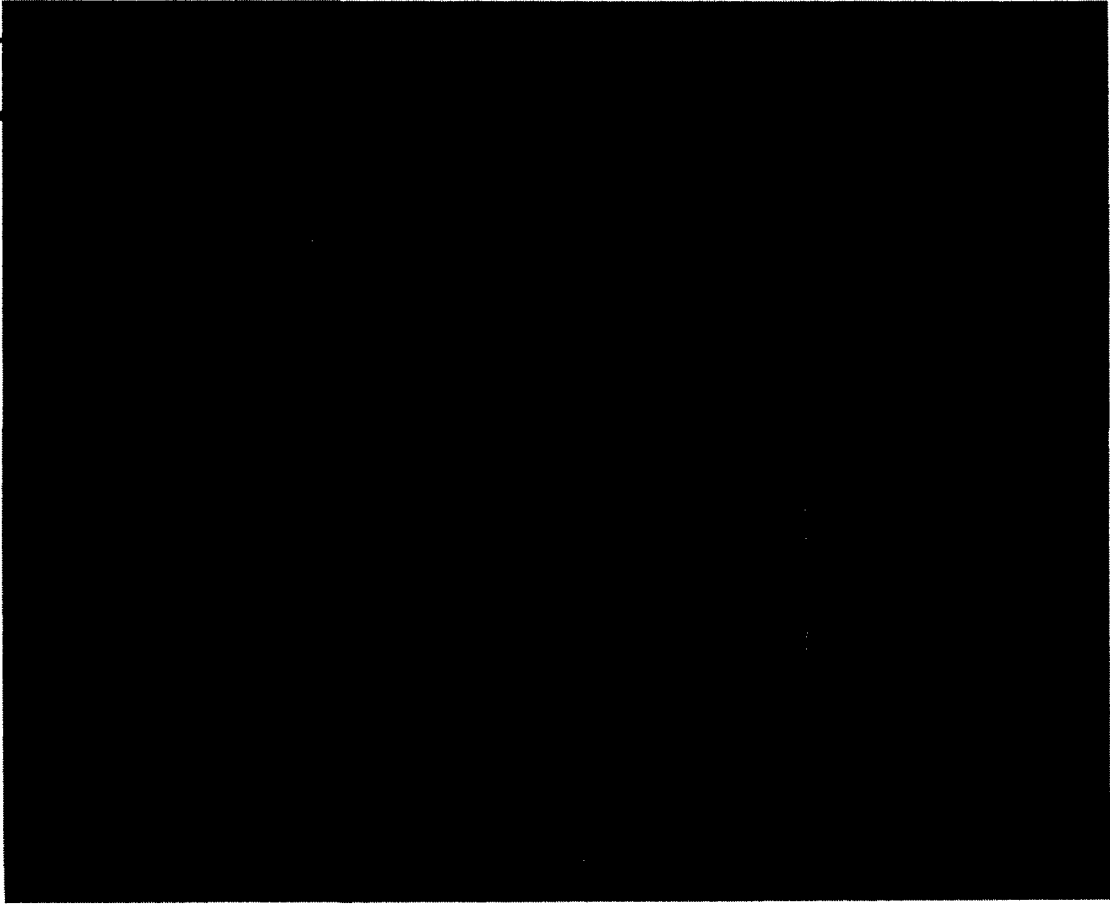
- trace route
 - Useful in identifying and debugging IP routing problems
 - Next logical step after a failed ping
 - ‘tracert’ for Windows NT; ‘tracert’ for Cisco IOS

Troubleshooting Tools

- netstat
 - Displays the status of TCP/IP network connections to and from the local computer
 - Shows TCP ports being used by applications on the local computer to communicate with remote computers and devices

TIC

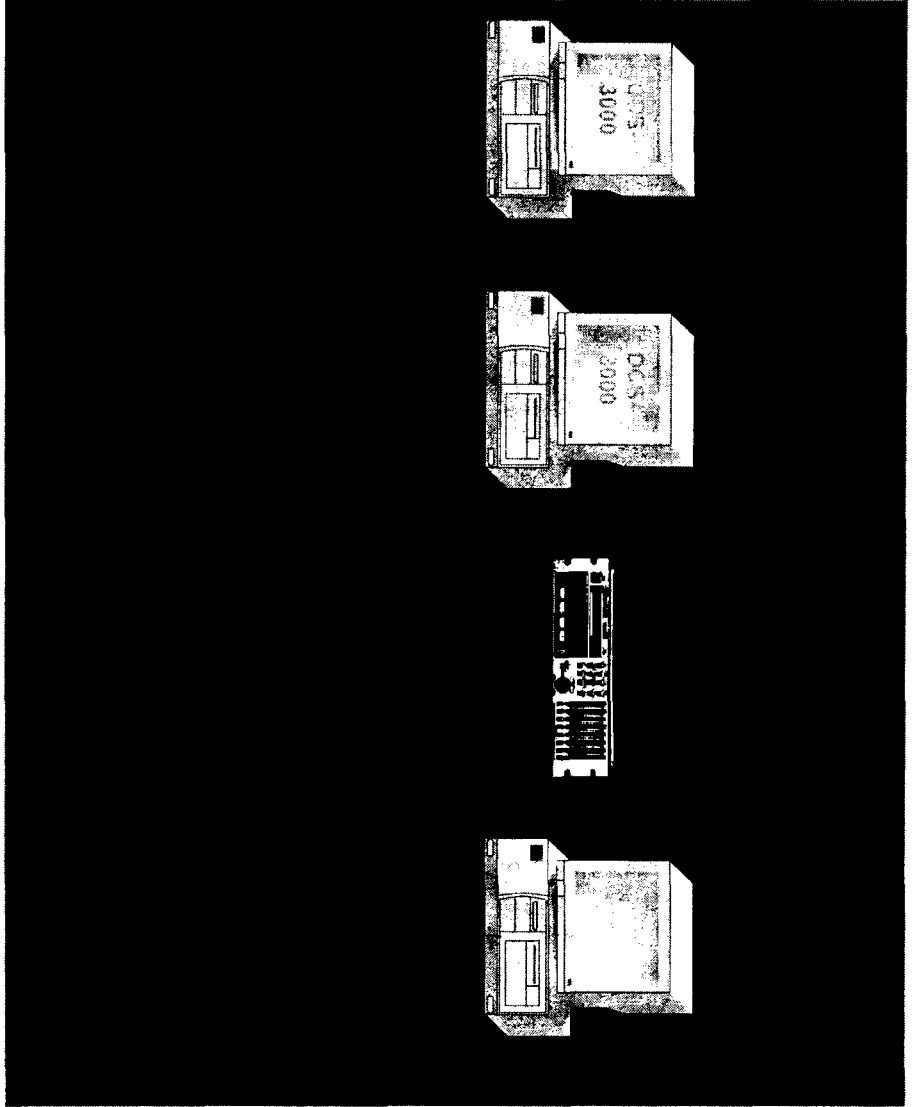
TICTU East Coast Conference



pg-1

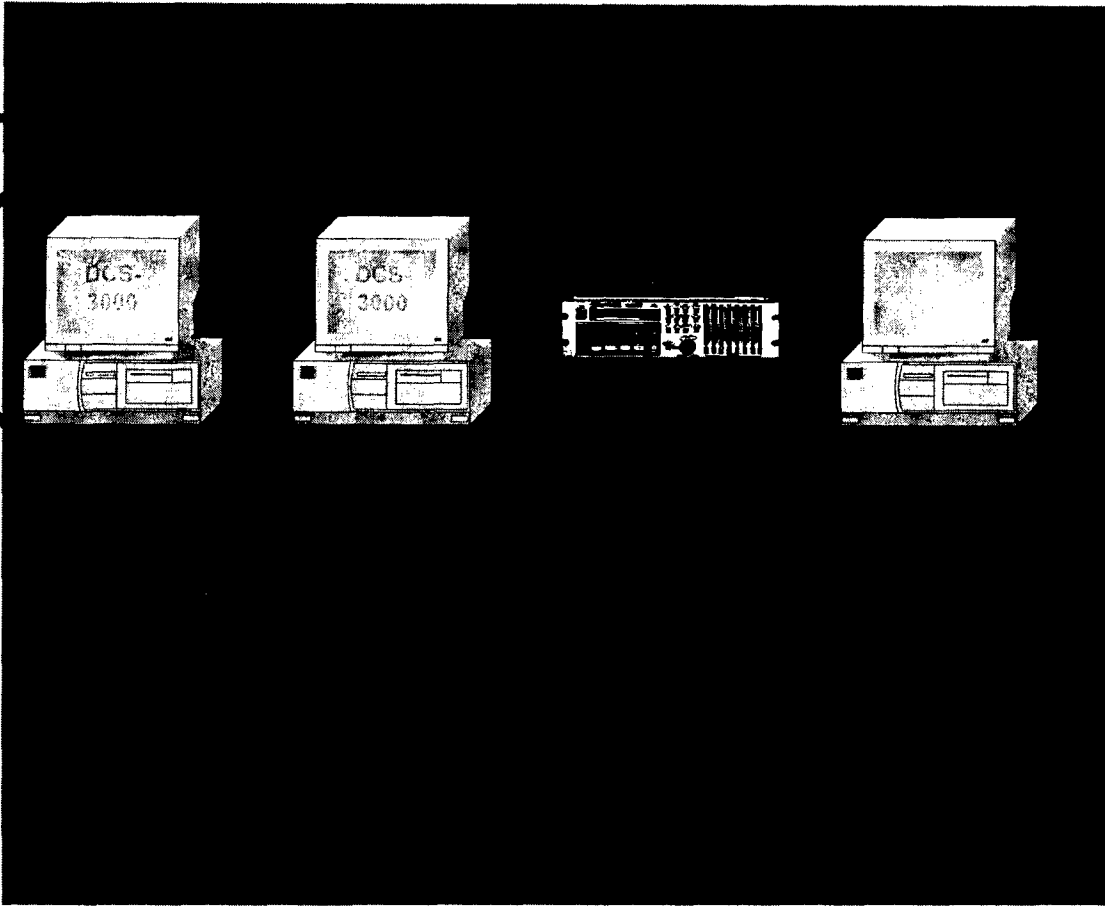
ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-30-2007 BY 65179dmh/ksr/maj

TICTU East Coast Conference

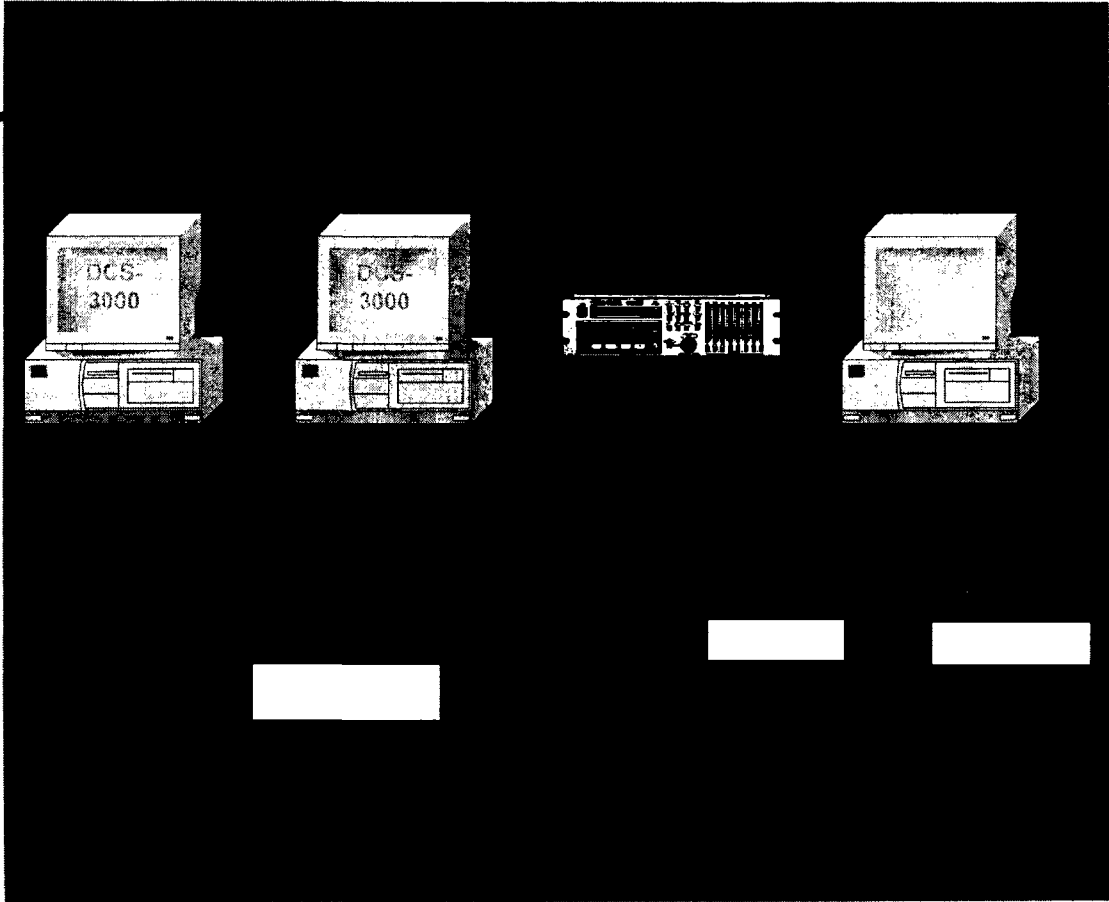


pg-2

TICTU East Coast Conference

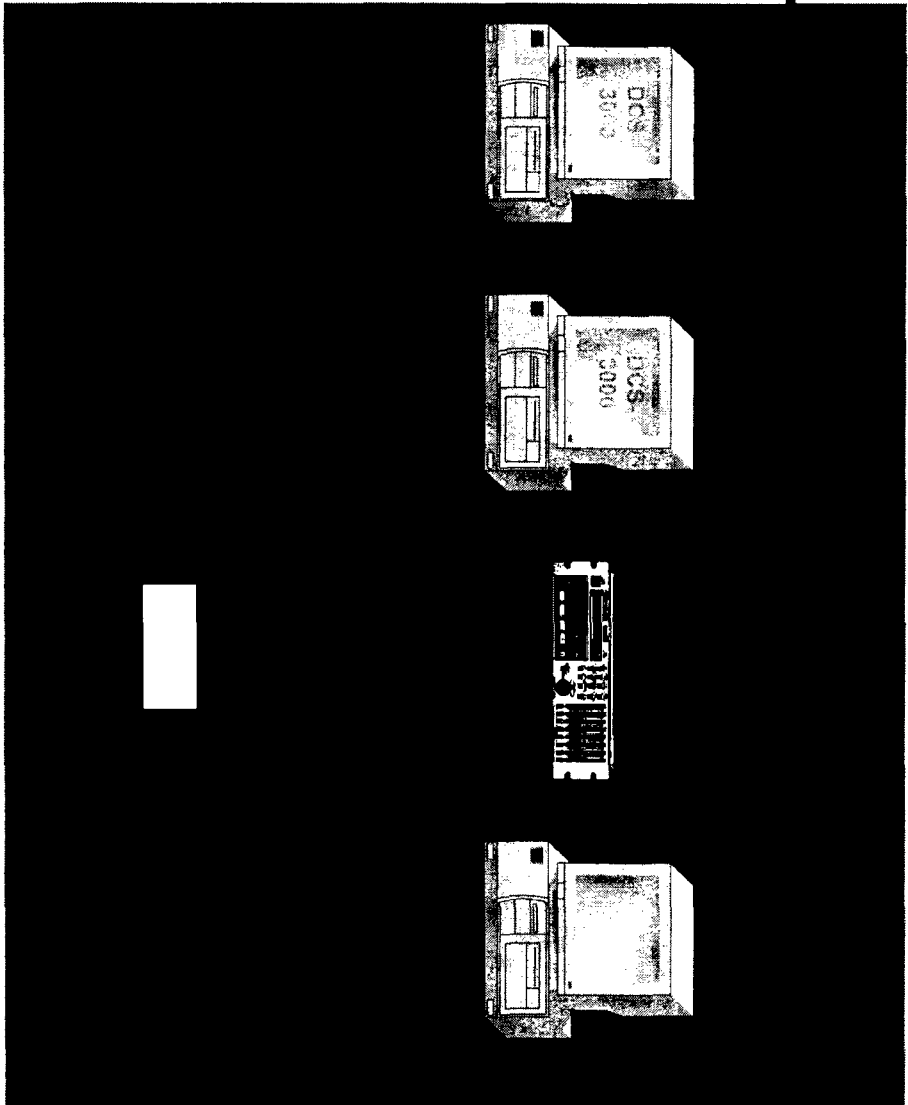


TICTU East Coast Conference



b2
b7E

TICTU East Coast Conference

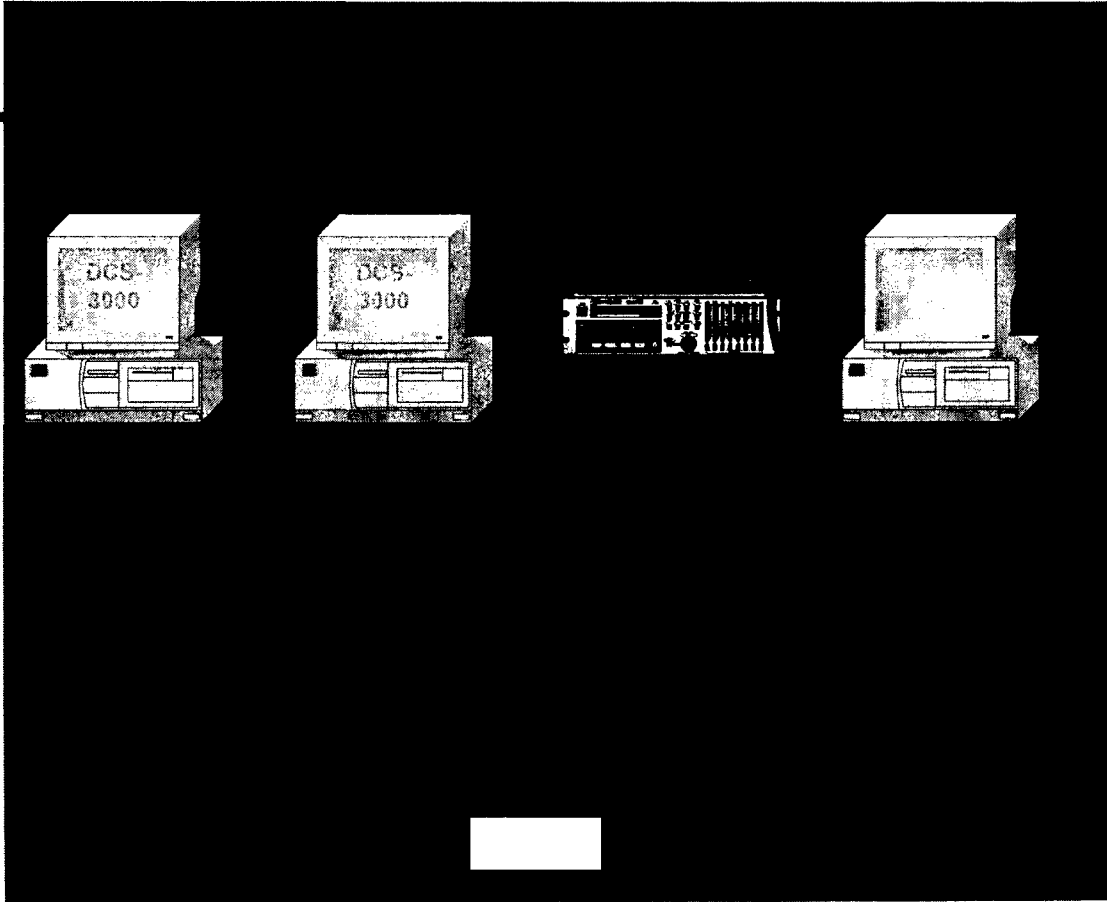


pg-5



b2
b7E

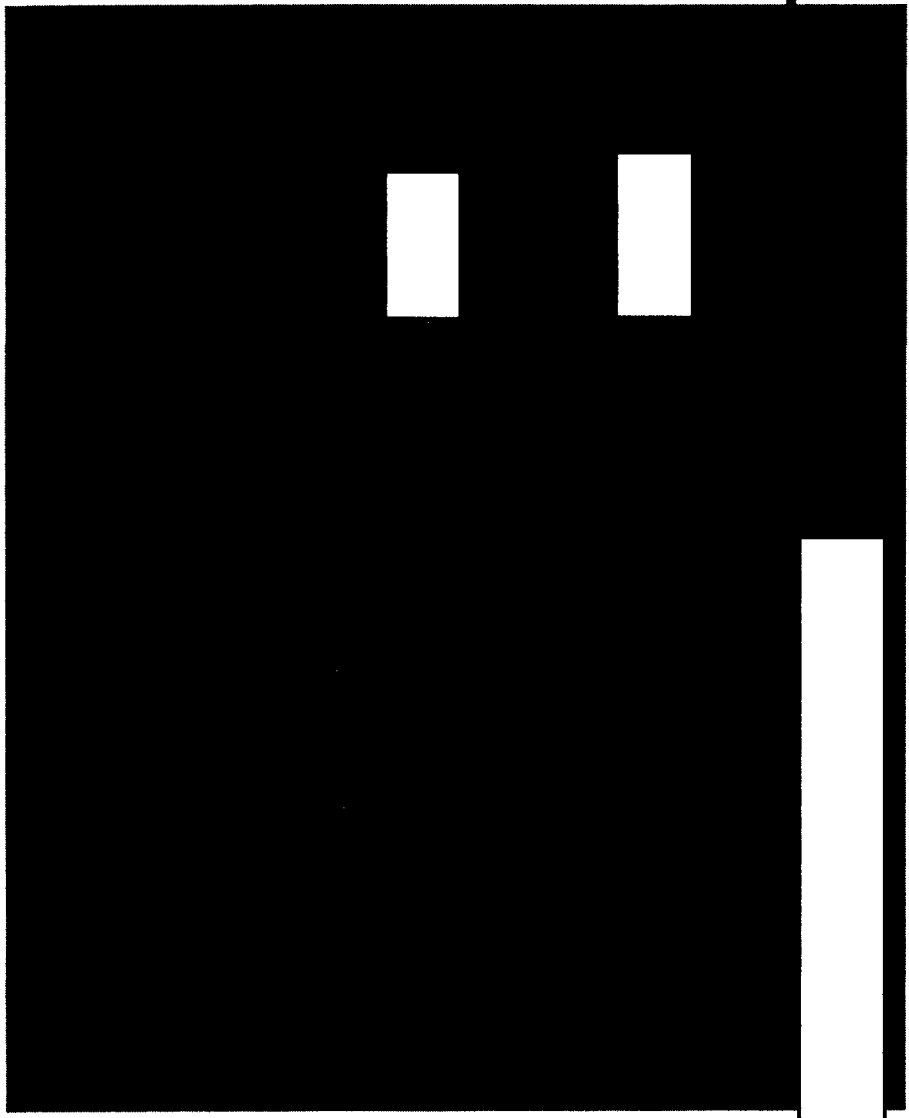
TICTU East Coast Conference



b2
b7E

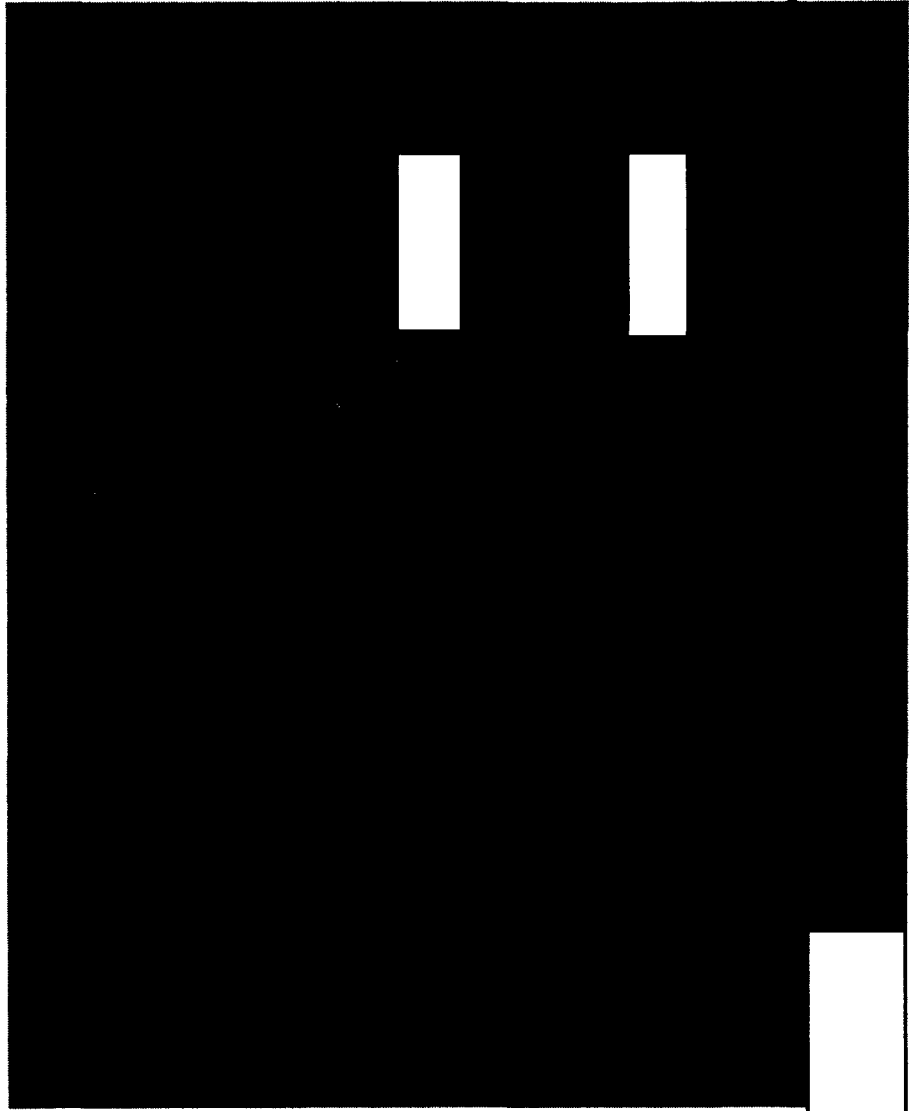
TICTU East Coast Conference

pg-8



b2
b7E

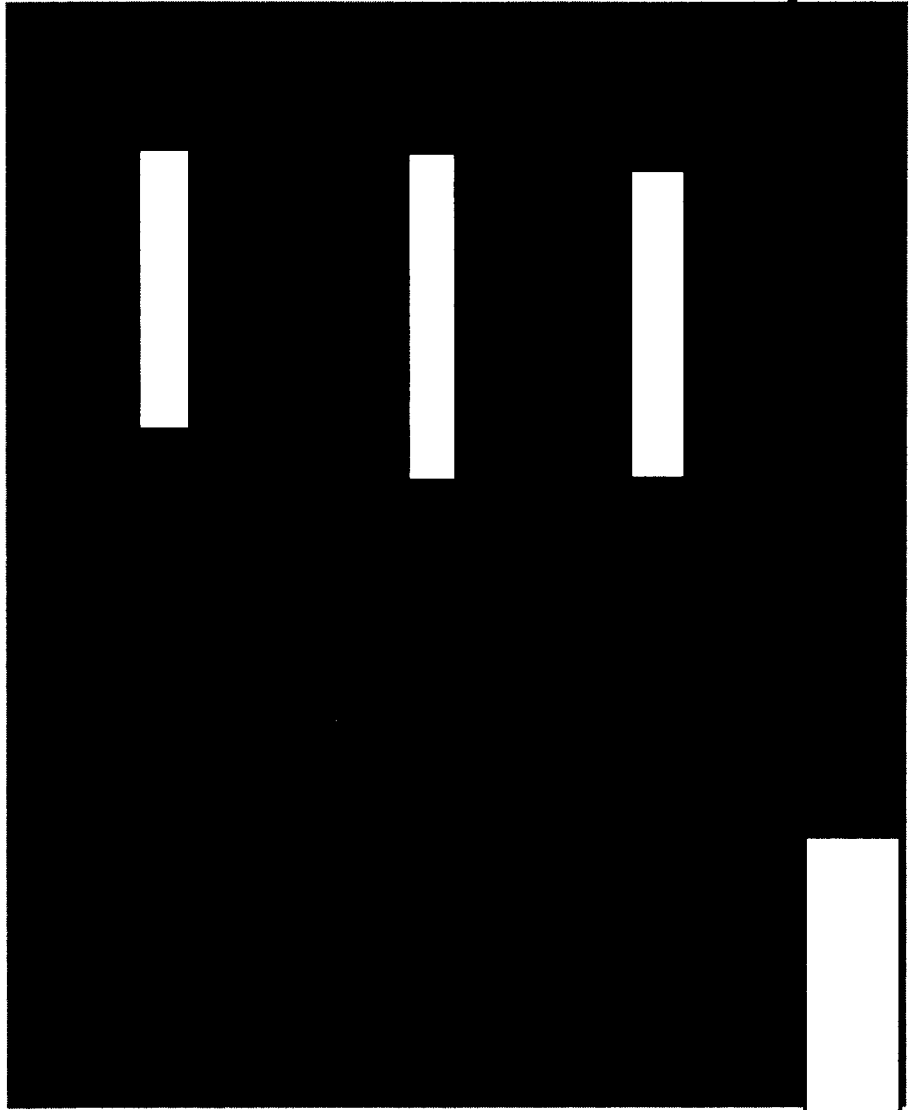
TICTU East Coast Conference



pg-9

b2
b7E

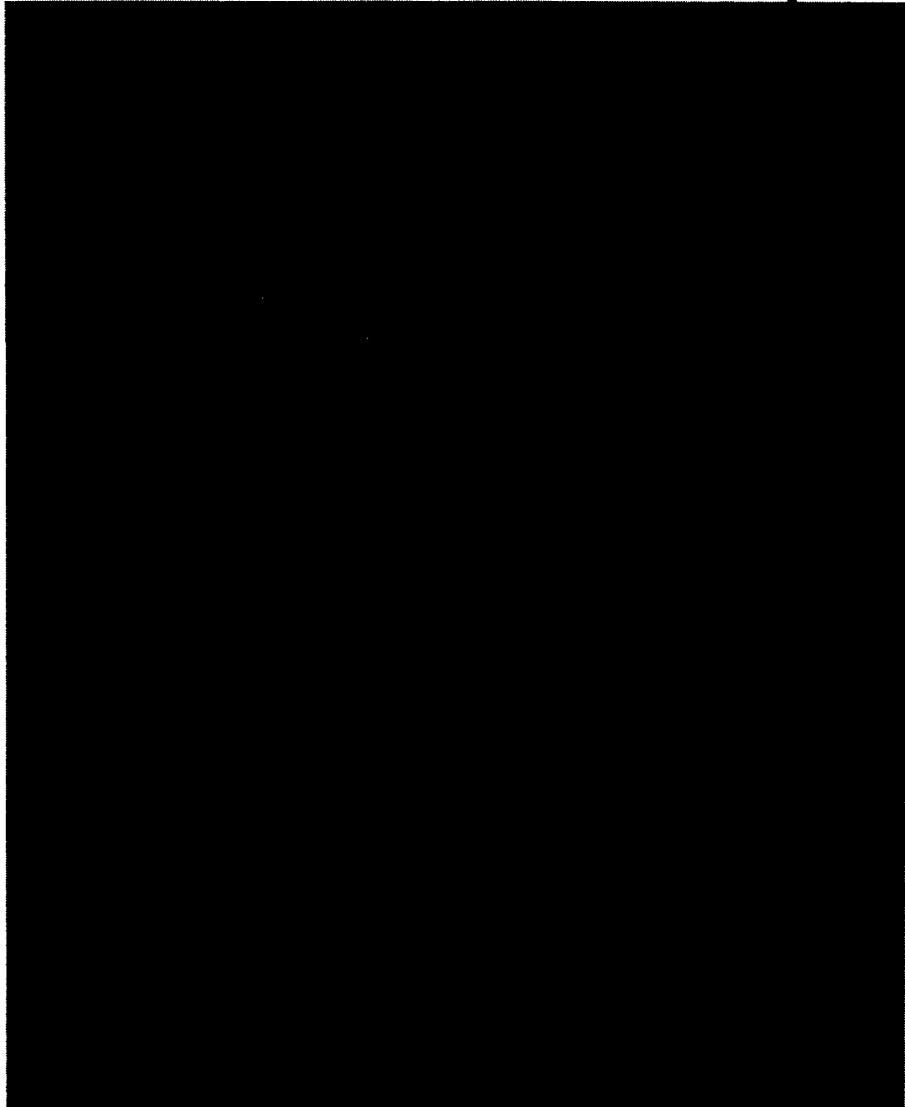
TICTU East Coast Conference



pg-10

b2
b7E

TICTU East Coast Conference



pg-11



TICTU

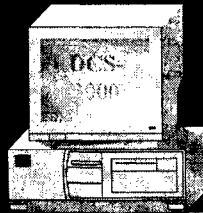
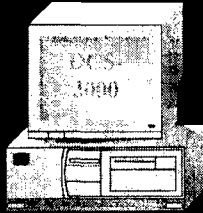
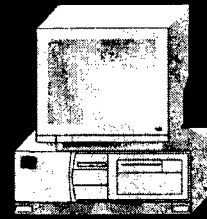
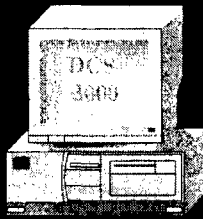
TICTU West Coast Conference



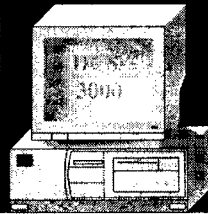
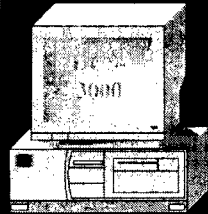
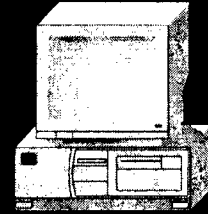
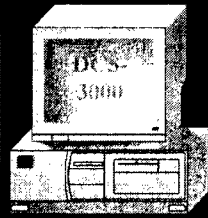
pg-1

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-30-2007 BY 65179dmh/ksr/maj

TICTU West Coast Conference

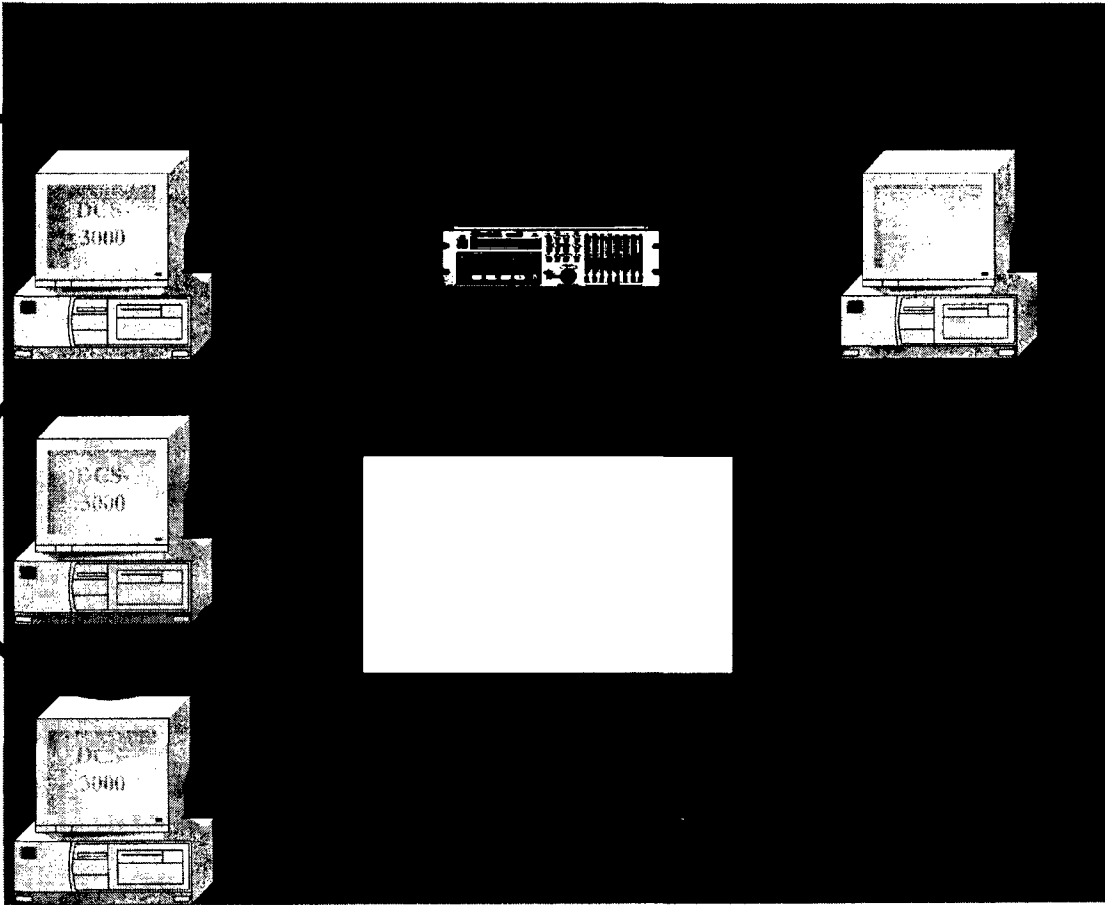


TICTU West Coast Conference

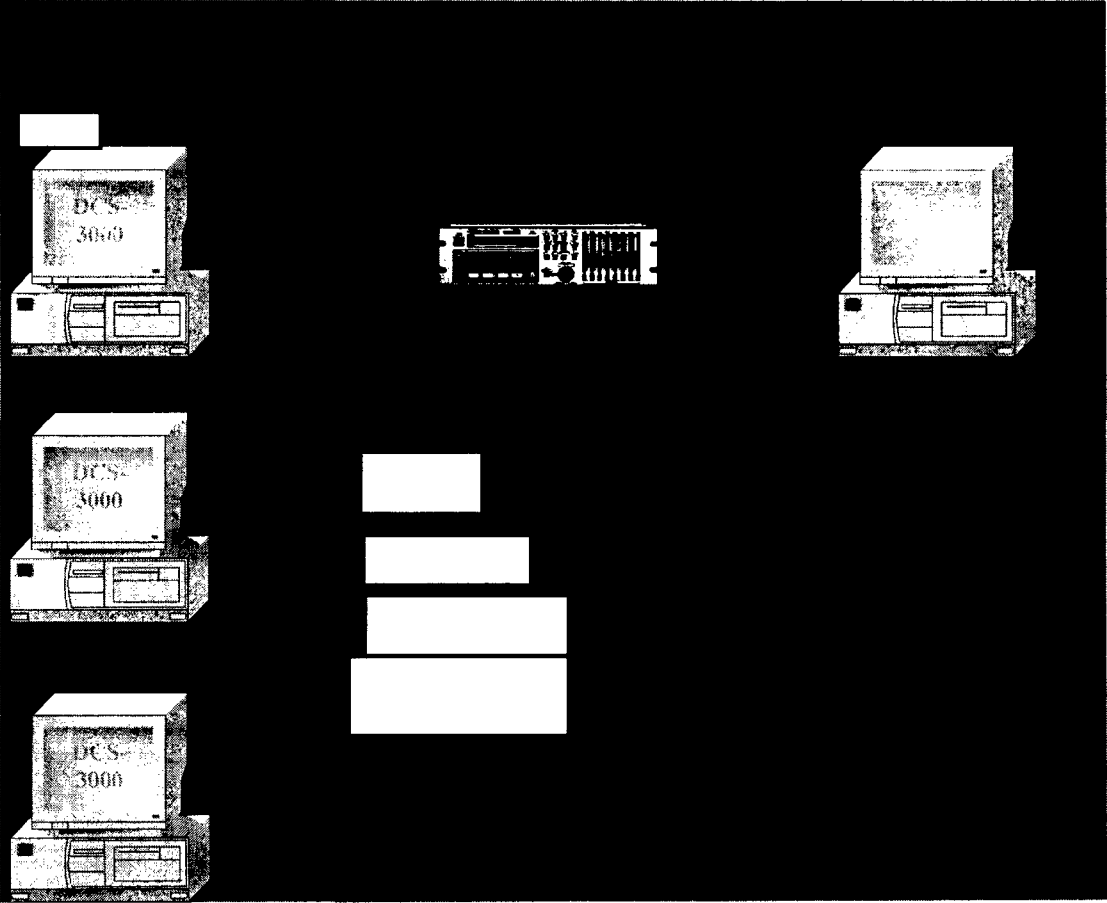


TICTU West Coast Conference

b2
b7E

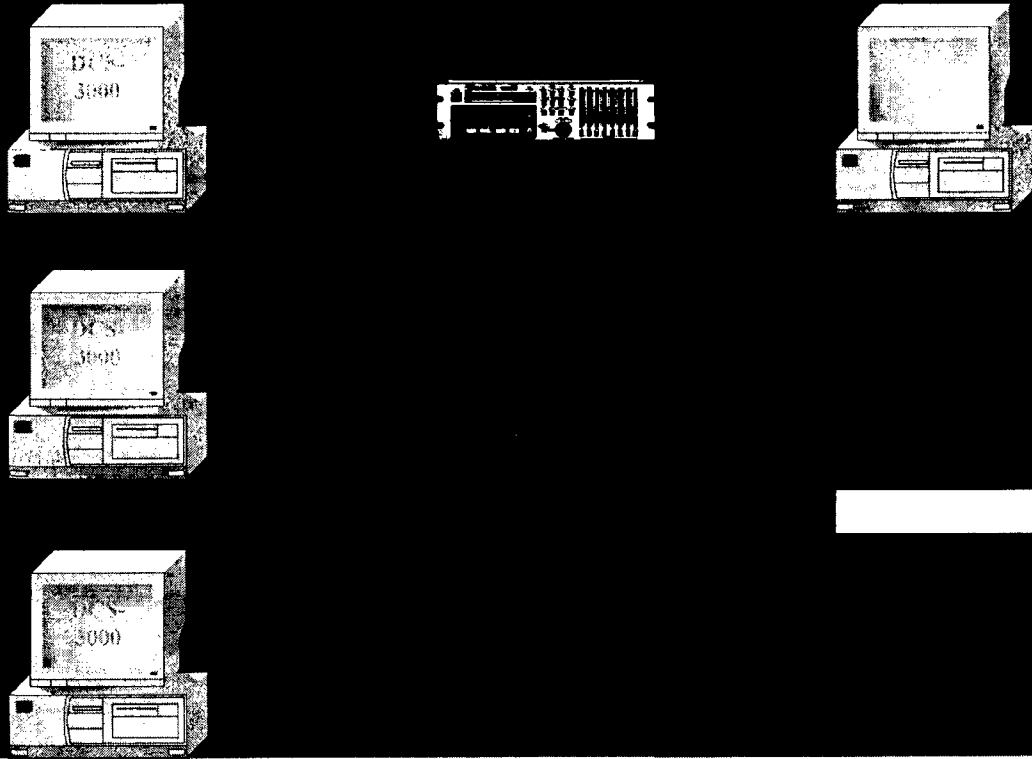


TICRU West Coast Conference



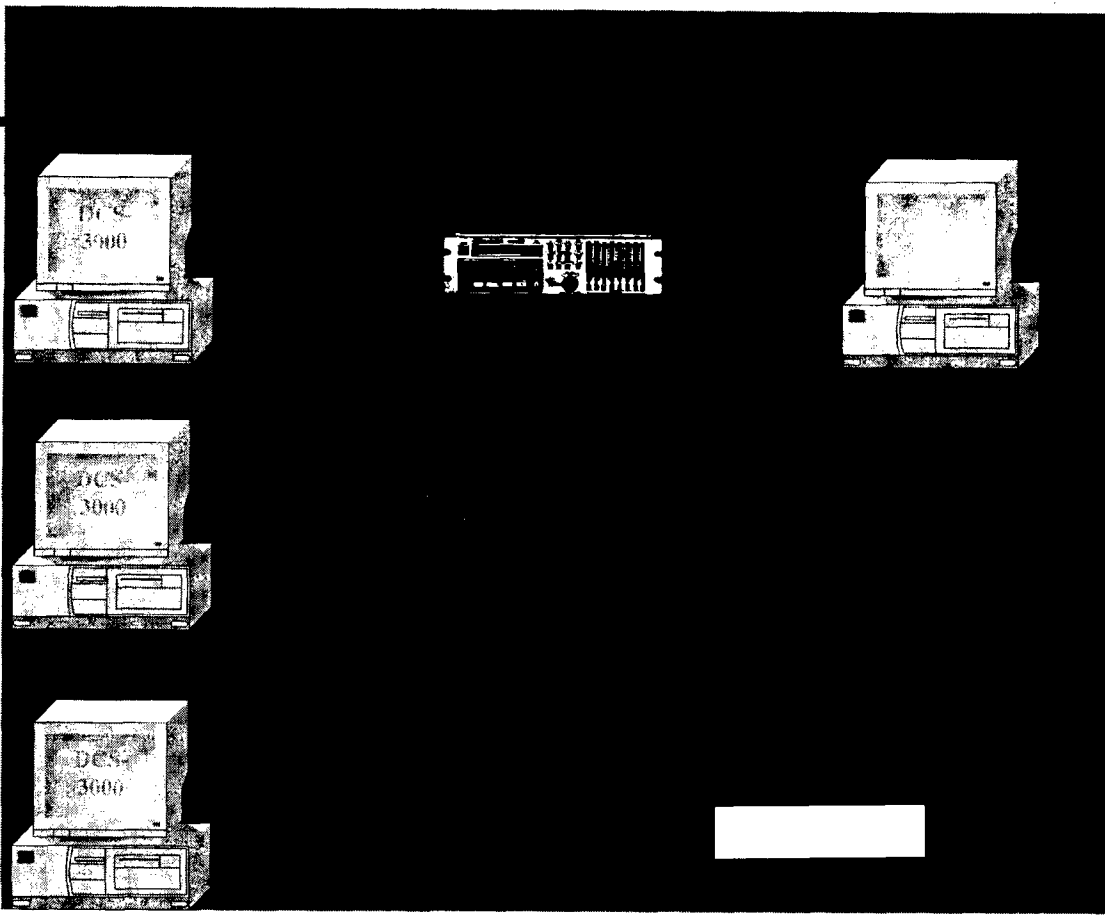
b2
b7E

TICTU West Coast Conference



b2
b7E

TICTU West Coast Conference



TICTU West Coast Conference

(S)

VSView - Hub' III

Action View Setup Help

Functions

- Monitor
- Analysis
- Name/Number Index
- Setup

Type: Service Providers

Switch ID: [Redacted]

Connection Type: [Redacted]

Termination Workstation: VB501WSS

IP Address: [Redacted]

CDC Message Type: [Redacted]

Local Port: [Redacted]

Unique Identifier: ERF1

Administration

- Reports
- Status

Active Sessions

administrator VB501WSS VB501.COM 12/23/2002 07:54:29 Time 7:54 AM

b2
b7E
b1
b2
b7E

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED EXCEPT
WHERE SHOWN OTHERWISE

DATE: 05-30-2007
CLASSIFIED BY 65179dmh/ksr/maj
REASON: 1.4 (G)
DECLASSIFY ON: 05-30-2032

TICTU West Coast Conference

The screenshot displays the VoiceBox web interface. At the top, there is a menu bar with 'Action View Setup Help'. Below the menu is a toolbar with navigation buttons: 'First', 'Prior', 'Next', 'Last', 'New', 'Delete', and 'Edit'. There are also 'Refresh' and 'Enable' buttons. The main content area shows a tree view under the heading '480Hz'. The tree includes a 'Test Phone' node, which is expanded to show 'FRAMING Class - 6' and 'BAWA'. To the right of the tree, there are input fields for 'Device ID', 'Line ID', and 'Case Identity', each with a redacted value. Below the tree, there are links for 'Administration', 'Reports', and 'Status'. At the bottom, the status bar shows the user 'administrator', system identifiers 'YB501W58' and 'YB501.COM', the date '12/23/2002', and the time '08:05:47'. The system tray at the bottom right shows the time '8:05 AM'.

b2
b7E

b2
b6
b7C
b7E

System Event Log | CDC Event Monitor

Date and Time	Status	Description	Severity	Component	Works
12/20/2002 13:24:48	De-programmed	[Device deprogrammed]	Informational	DS_AGENT	V8501V
12/20/2002 13:24:29	Down	[Peer closed connection from [redacted]]	Error	DS_AGENT	V8501V
12/20/2002 10:03:30	Up	[Connected to peer (Local [redacted])]	Informational	DS_AGENT	V8501V
12/20/2002 10:03:28	Down	[Device programmed PID=1650]	Informational	DS_AGENT	V8501V
12/19/2002 13:06:37	Up	[Connected to peer (Local [redacted])]	Informational	DS_AGENT	V8501V
12/17/2002 09:30:59	Up	[Connected to peer (Local [redacted])]	Informational	DS_AGENT	V8501V
12/17/2002 09:27:48	Down	[CTCPClient: EstablishLink - Winsock2 connect function failed]	Error	DS_AGENT	V8501V
12/16/2002 12:52:46	Down	[CTCPClient: EstablishLink - Winsock2 connect function failed]	Error	DS_AGENT	V8501V
12/16/2002 12:44:51	Down	[CTCPClient: EstablishLink - Winsock2 connect function failed]	Error	DS_AGENT	V8501V
12/14/2002 11:56:00	Down	[CTCPClient: EstablishLink - Winsock2 connect function failed]	Error	DS_AGENT	V8501V
12/14/2002 11:55:36	Down	[CTCPClient: EstablishLink - Winsock2 connect function failed]	Error	DS_AGENT	V8501V
12/14/2002 08:16:11	Down	[Device programmed PID=1532]	Informational	DS_AGENT	V8501V
12/14/2002 08:15:48	Down	[CTCPClient: EstablishLink - Winsock2 connect function failed]	Error	DS_AGENT	V8501V
12/12/2002 15:44:35	Down	[Device programmed PID=1524]	Informational	DS_AGENT	V8501V
12/09/2002 14:55:42	Down	[CTCPClient: EstablishLink - Winsock2 connect function failed]	Error	DS_AGENT	V8501V
12/09/2002 14:55:40	Down	[CTCPClient: EstablishLink - Winsock2 connect function failed]	Error	DS_AGENT	V8501V
12/08/2002 16:33:03	Down	[Device programmed PID=1736]	Informational	DS_AGENT	V8501V
12/08/2002 16:33:01	Down	[CTCPClient: EstablishLink - Winsock2 connect function failed]	Error	DS_AGENT	V8501V
12/08/2002 15:35:11	Down	[Device programmed PID=1486]	Informational	DS_AGENT	V8501V
12/08/2002 15:35:11	Down	[CTCPClient: EstablishLink - Winsock2 connect function failed]	Error	DS_AGENT	V8501V
12/08/2002 14:45:49	Down	[Device programmed PID=1564]	Informational	DS_AGENT	V8501V
12/08/2002 14:45:47	Down	[CTCPClient: EstablishLink - Winsock2 connect function failed]	Error	DS_AGENT	V8501V
12/08/2002 11:09:07	Down	[Device programmed PID=1468]	Informational	DS_AGENT	V8501V
12/08/2002 11:09:04	Down	[CTCPClient: EstablishLink - Winsock2 connect function failed]	Error	DS_AGENT	V8501V
12/06/2002 22:07:59	Down	[Device programmed PID=1540]	Informational	DS_AGENT	V8501V
12/06/2002 22:07:59	Down	[CTCPClient: EstablishLink - Winsock2 connect function failed]	Error	DS_AGENT	V8501V
12/06/2002 22:07:27	Down	[CTCPClient: NonBlockingSendBytes - TCP Error from IP: [redacted]]	Error	DS_AGENT	V8501V
12/06/2002 14:27:47	Up	[Connected to peer (Local [redacted])]	Informational	DS_AGENT	V8501V
12/06/2002 14:27:44	Down	[Device programmed PID=1632]	Informational	DS_AGENT	V8501V
12/06/2002 12:32:15	Up	[Connected to peer (Local [redacted])]	Informational	DS_AGENT	V8501V
12/06/2002 12:32:14	Down	[Device programmed PID=1604]	Informational	DS_AGENT	V8501V
12/06/2002 12:26:51	De-programmed	[Device deprogrammed]	Informational	DS_AGENT	V8501V
12/06/2002 12:26:51	Down	[Device disabled]	Informational	DS_AGENT	V8501V

View: <system default> Filter: <none> Limit Max Range Total Records: 69 Filtered Records: 0

administrator V8501WS8 V8501.COM 12/23/2002 08:07:02 Time 8:07 AM

b1
b2
b7E

b2
b7E

b1
b2
b7E

TICTU West Coast Conference

The screenshot displays the VoiceBox software interface. At the top, there is a menu bar with 'Action', 'View', 'Analysis', and 'Help'. Below the menu is a toolbar with various icons for navigation and analysis. The main window is divided into several sections:

- Left Panel:** Contains a tree view under 'Limitations' with sub-items like 'Monitor', 'Analysis', and 'View by: Case/Target/Line ID'. There are also several redacted boxes with labels 'b2', 'b6', 'b7C', and 'b7E' next to them.
- Top Table:** A table with columns: 'Session Num...', 'Line Id', 'Date', 'Start Time', 'Stop Time', 'Duration', 'Answered', 'Answered Time', and 'D...'. It lists several call records from 12/17/2002.
- Bottom Table:** A table with columns: 'Received Time', 'Type', and 'Event'. It shows events such as 'Ignition', 'Open', 'Delivery Started (Offhook)', 'Delivery Stopped (Onhook)', 'CDTone', and 'Release'.
- Right Panel:** Contains a 'History' section with various fields like 'Originator', 'CallerPartyIdentity', 'TimeStamp', 'CallIdentity', 'SequenceNumber', 'DN', 'CallerPartyIdentity', 'Context', 'Input UserInput', 'Location', and 'BearerCapability'. Some fields are redacted with boxes.
- Status Bar:** At the bottom, it shows 'administrator', 'VB501WS8', 'VB501.COM', '01/06/2003', and '11:18:36 AM'.

b2
b6
b7C
b7E

TICTU West Coast Conference

VoiceBox 111

Workspace #1 | Workspace #2

Session Nu...	CPT Count	Decoded	CDC Start	CDC Answer	CDC Stop	Recorded On
00009	0 No			12/17/2002 10:37:50	12/17/2002 10:38:30	V8501WS2
00008	0 No		12/17/2002 10:37:48	12/17/2002 10:37:50	12/17/2002 10:38:30	V8501WS2
00007	0 No		12/17/2002 10:36:41		12/17/2002 10:36:41	V8501WS2
00006	0 No		12/17/2002 10:36:38		12/17/2002 10:36:38	V8501WS2
00005	0 No		12/17/2002 10:36:04	12/17/2002 10:36:22	12/17/2002 10:36:37	V8501WS2
00004	0 No		12/17/2002 10:34:32	12/17/2002 10:34:37	12/17/2002 10:34:49	V8501WS2
00003	0 No		12/17/2002 10:31:38		12/17/2002 10:31:46	V8501WS2
00002	0 No		12/17/2002 10:30:02	12/17/2002 10:30:05	12/17/2002 10:30:19	V8501WS2
00001						

View: <System Defaults> Filter: <none> Limit: 01/07/2002 - 01/06/2003 Total Records: 94 Filtered Records: ...

Received Time	Time	Event	Originator
10:30:35		Ignition	
10:30:36		COpen	
10:30:37	CCC	Delivery Stated (Offhook)	20021217102721370 0080105
10:30:42	CCC	Delivery Stopped (Unhook)	
10:30:42		CClose	
10:30:43		Release	L157 C:50:395 MCL/MNC:316U1 0480

administrator V8501WS8 V8501.COM 01/06/2003 11:19:49 Time 11:19 AM

b2
b6
b7C
b7E

TICTU West Coast Conference

b2
b6
b7C
b7E

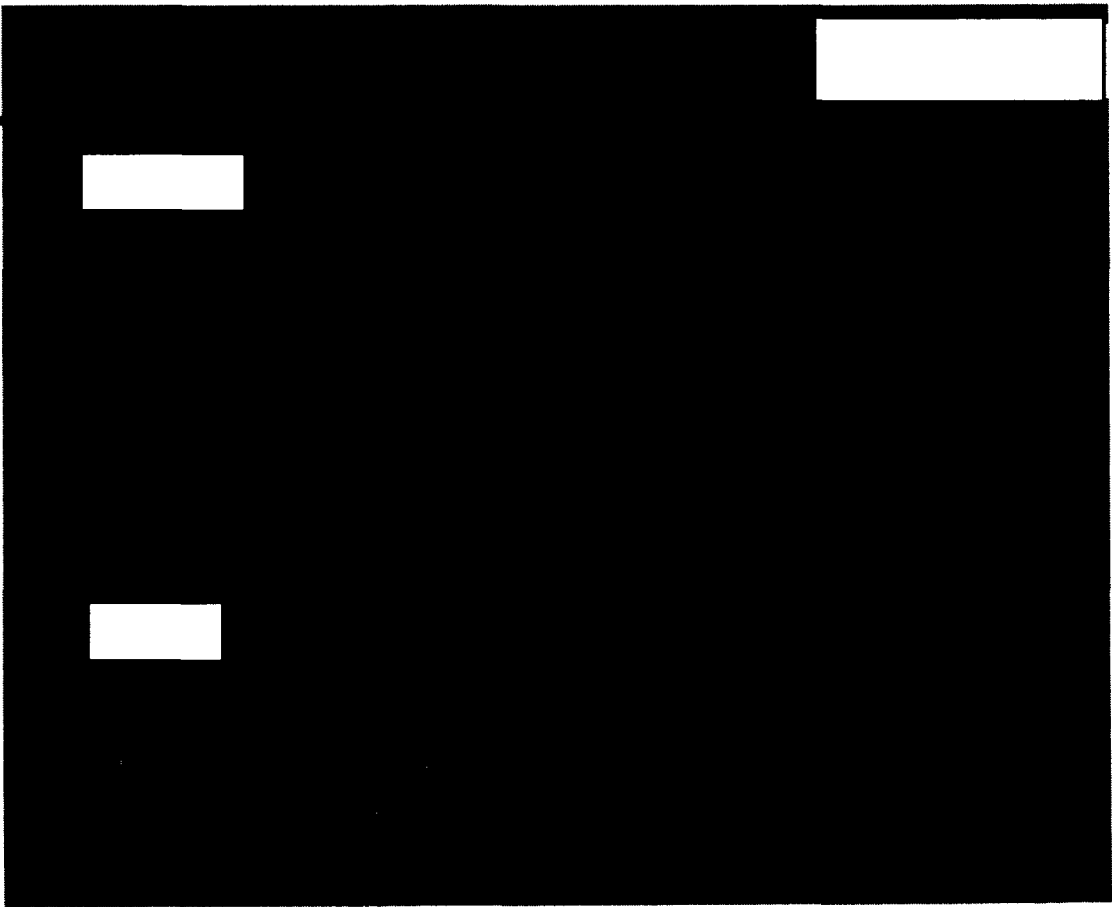
The screenshot displays a software interface with a menu bar (Action, View, Analysis, Help) and a toolbar. On the left, there is a tree view under 'View by: Case/Target/Line ID' containing items like '480Hz', 'Fax Test', 'Daylona Card Fax Test', 'Pka Card Fax Test', 'Test ID', 'Test Phone', and 'Test'. The main area shows a table of sessions:

Session No.	CPT Count	Decoded	CDC Start	CDC Answer	CDC Stop	Recorded On
00061						
00060	0 No		12/23/2002 10 06 55	12/23/2002 10 07 00	12/23/2002 10 07 10	V8501WS2
00059	0 No		12/23/2002 10 06 16	12/23/2002 10 06 22	12/23/2002 10 07 16	V8501WS2
00058	0 No		12/23/2002 10 02 04	12/23/2002 10 02 09	12/23/2002 10 02 31	V8501WS2
00057	0 No		12/23/2002 10 01 41	12/23/2002 10 01 46	12/23/2002 10 02 40	V8501WS2
00056	0 No		12/23/2002 09 54 55	12/23/2002 09 55 00	12/23/2002 09 55 42	V8501WS2
00055	0 No		12/23/2002 09 53 58	12/23/2002 09 54 05	12/23/2002 09 55 30	V8501WS2
00054	0 No					V8501WS2
00053	0 No		12/23/2002 09 47 24	12/23/2002 09 47 31	12/23/2002 09 48 09	V8501WS2

Below the table, there is a 'View: <System Default>' section with filters and a limit of '01/07/2002 - 01/06/2003'. A summary bar shows 'Total Records: 94' and 'Filtered Records: ...'. A detailed view for 'Session Number 61' is shown below, with fields for Line Id, Date, Start Time, Stop Time, Duration, Answered, Answered Time, Direction, and Alarmed. The 'Comments' field contains the text: 'Test Message:test calls for training'. The status bar at the bottom shows 'administrator', 'V8501WS8', 'V8501.COM', '01/06/2003', and '11:21:39 AM'.

b2
b6
b7C
b7E

TICTU West Coast Conference

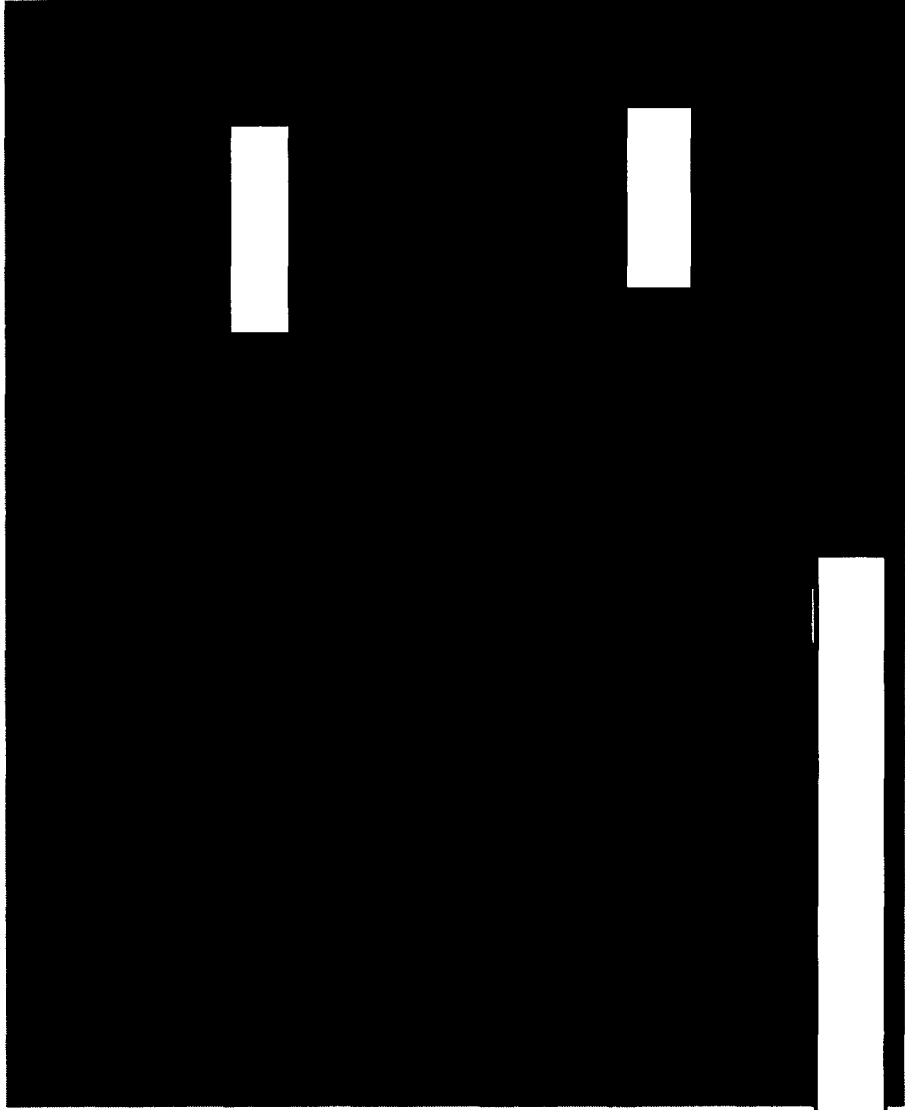


b2
b7E

pg-1

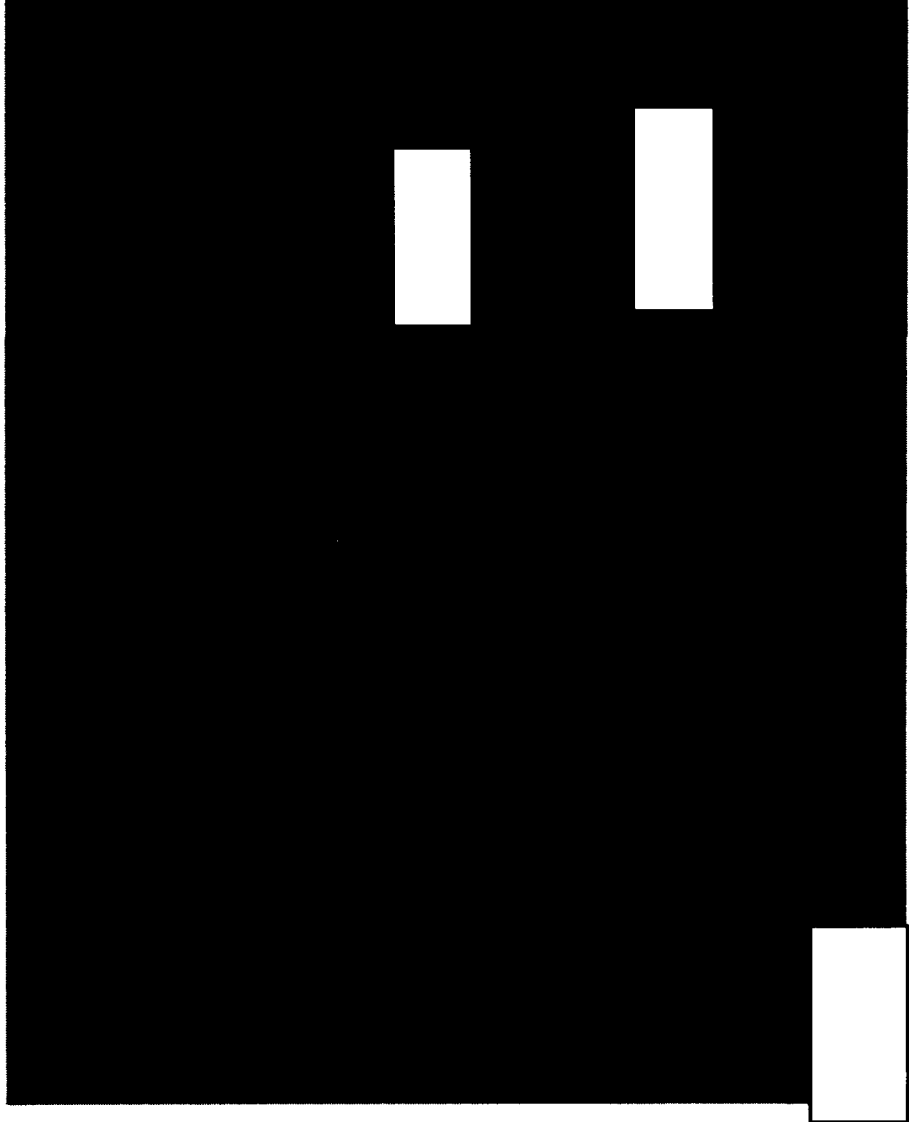
ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-30-2007 BY 65179dmh/ksr/maj

TICTU West Coast Conference



pg-2

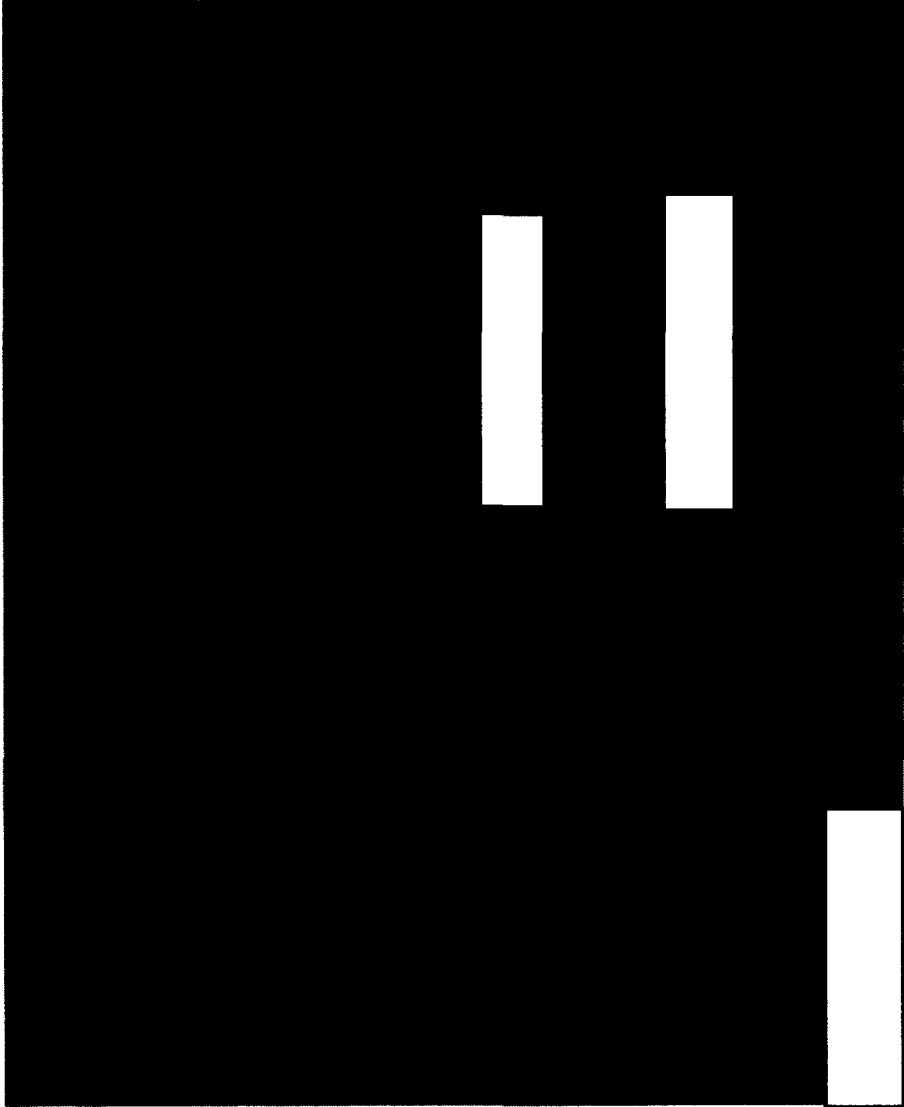
TICTU West Coast Conference



pg-3

b2
b7E

TICTU West Coast Conference

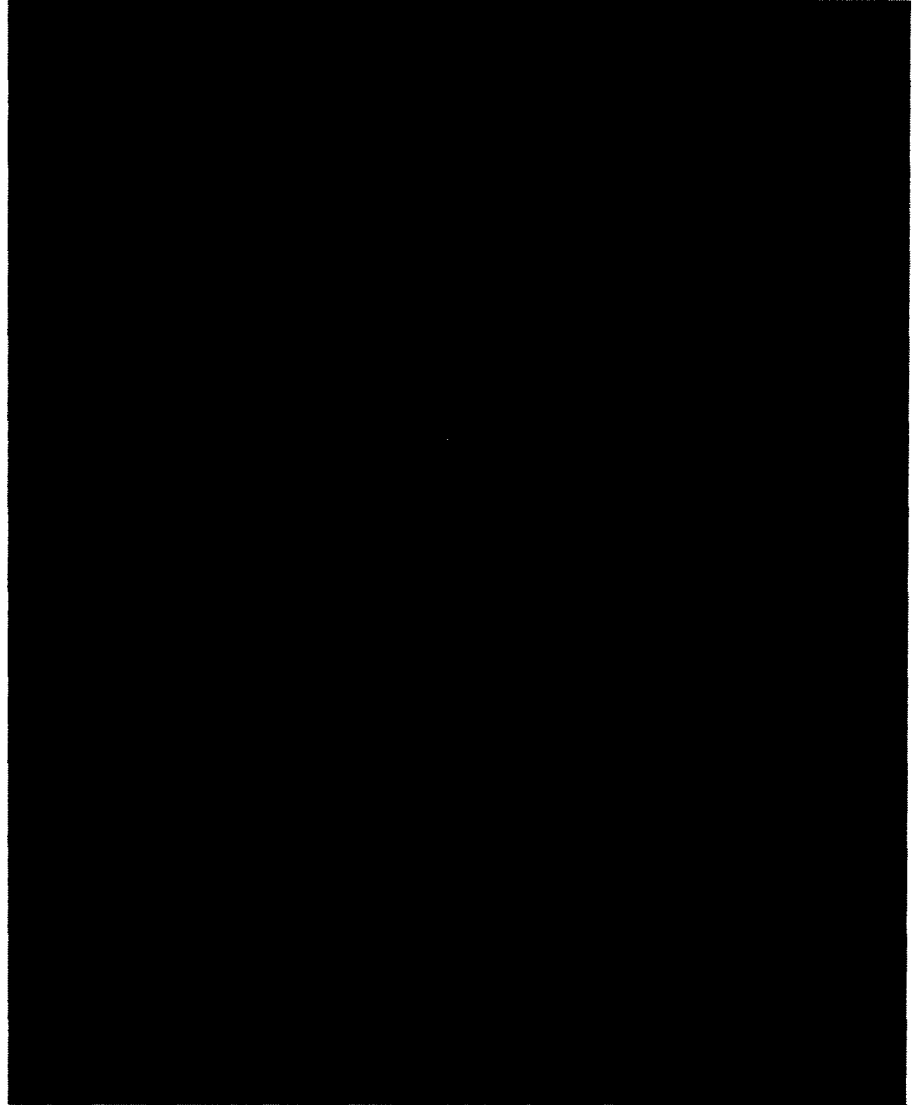


pg-4

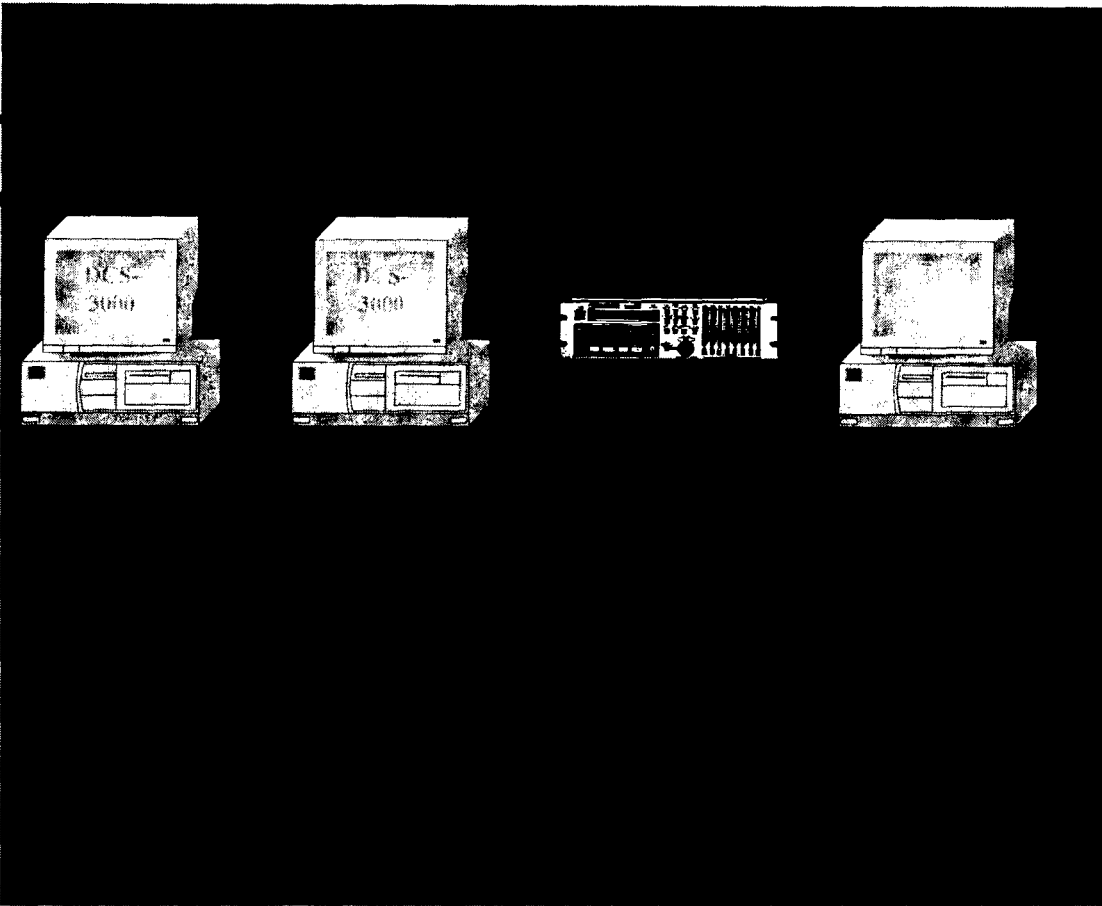
b2
b7E

TICTU West Coast Conference

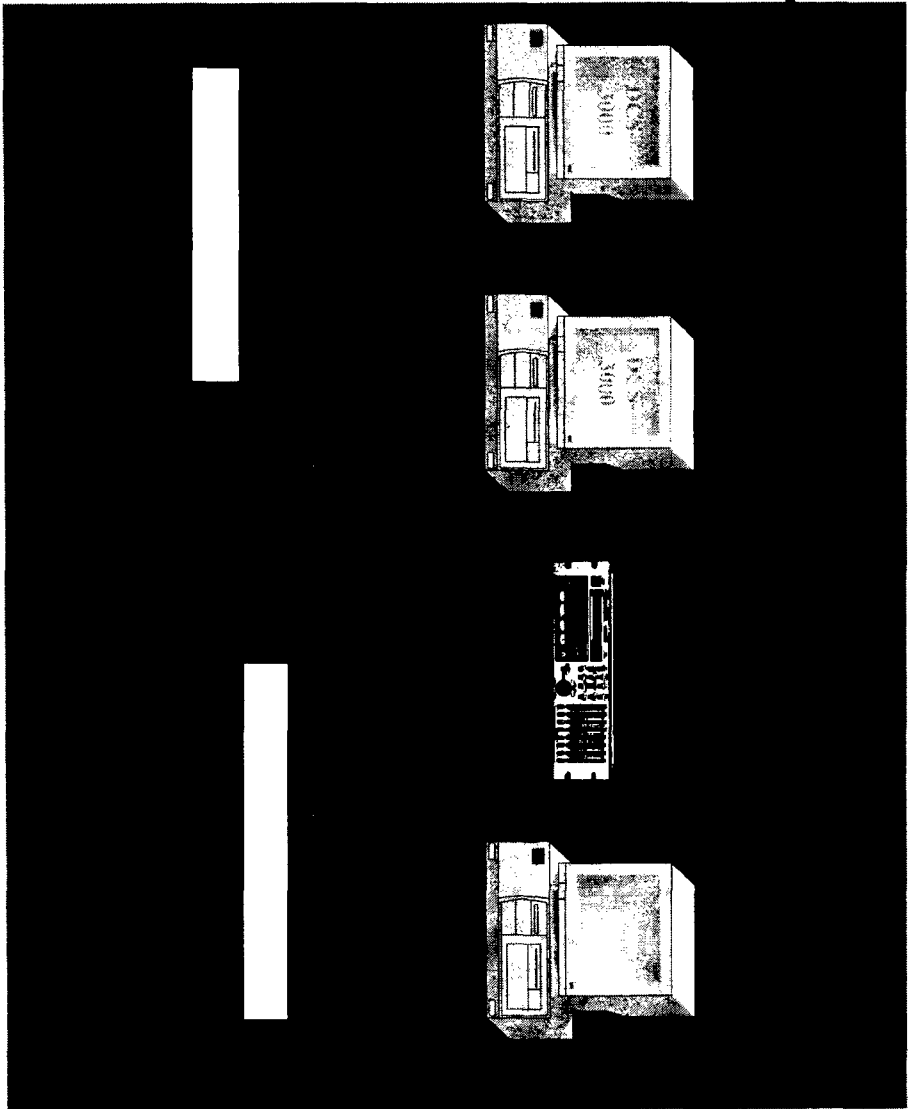
pg-5



TICTU West Coast Conference



TICTU West Coast Conference

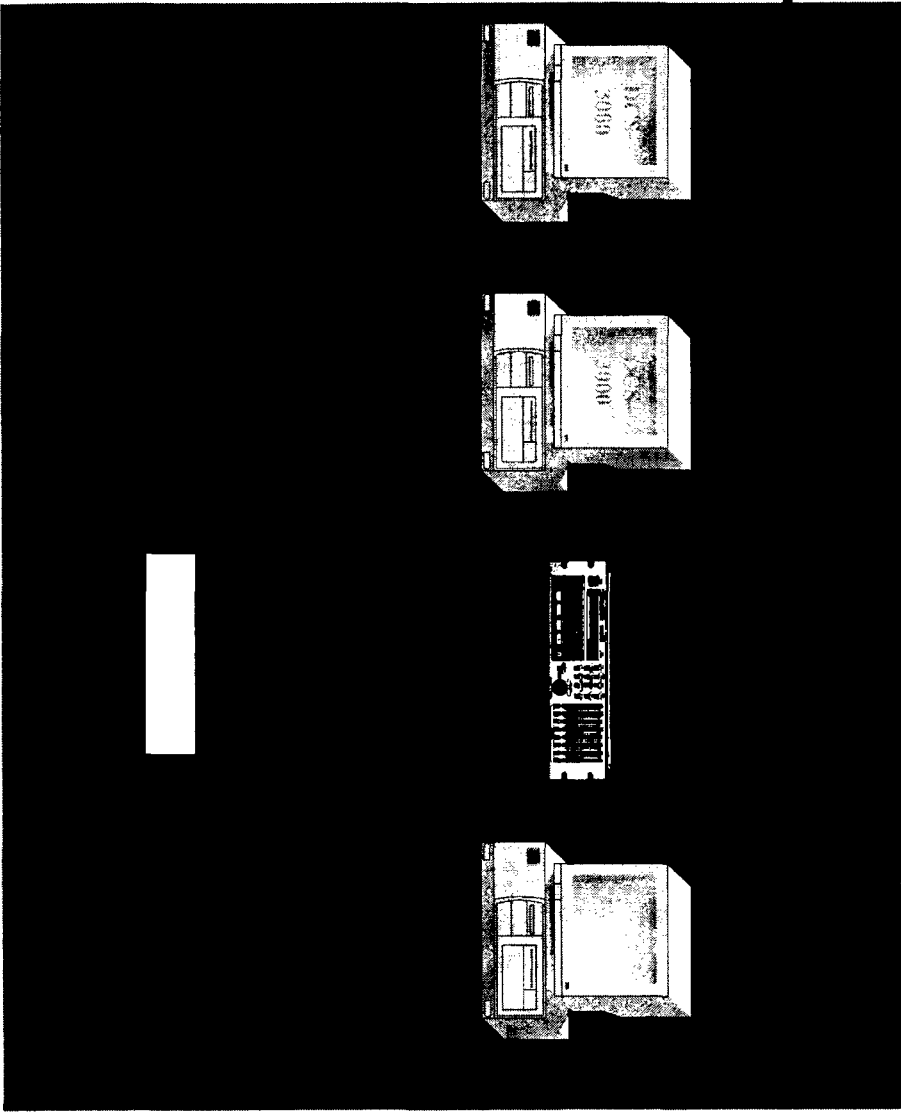


pg-7

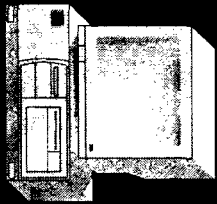
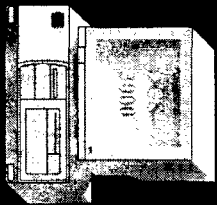
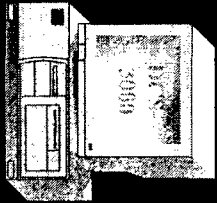
b2
b7E

TICTU West Coast Conference

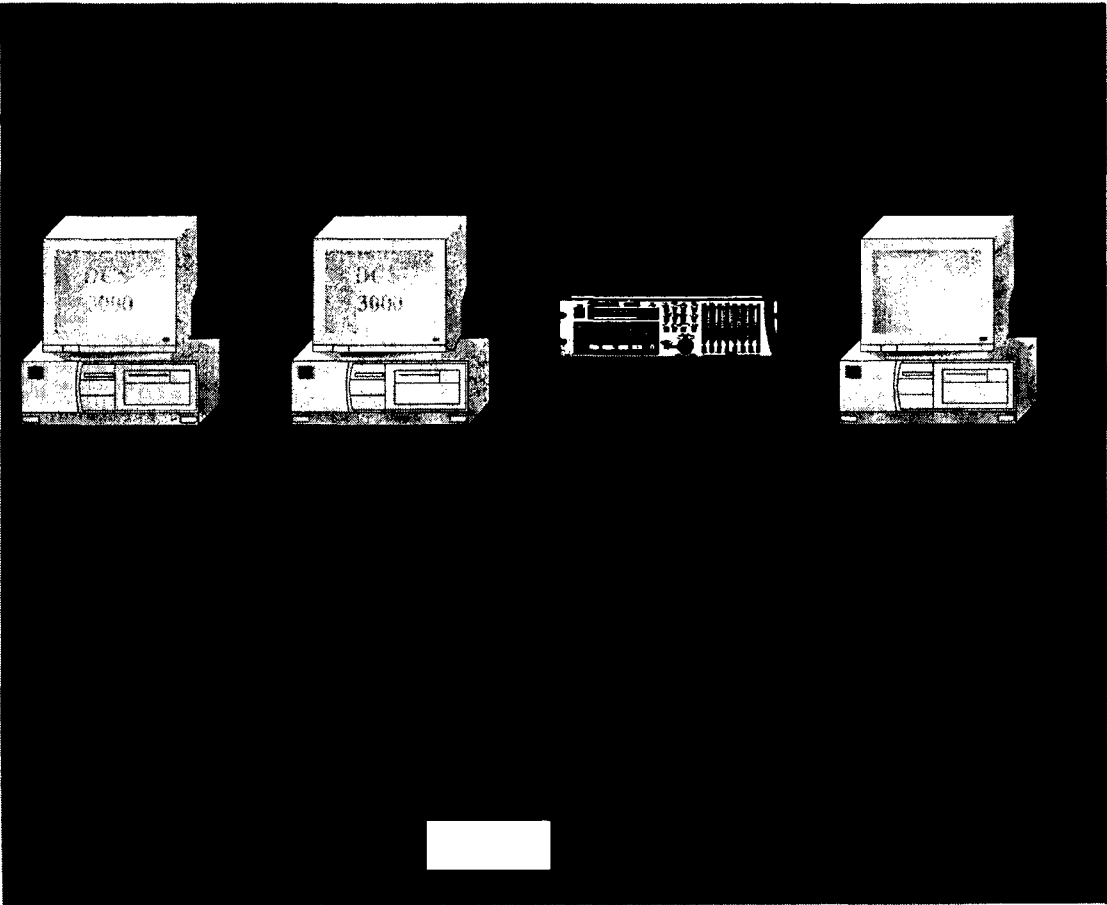
pg-8



b2
b7E



TICTU West Coast Conference



b2
b7E