

# *Freedom of Information and Privacy Acts*

*FOIPA# 1056287 and FOIPA#1056307-1*

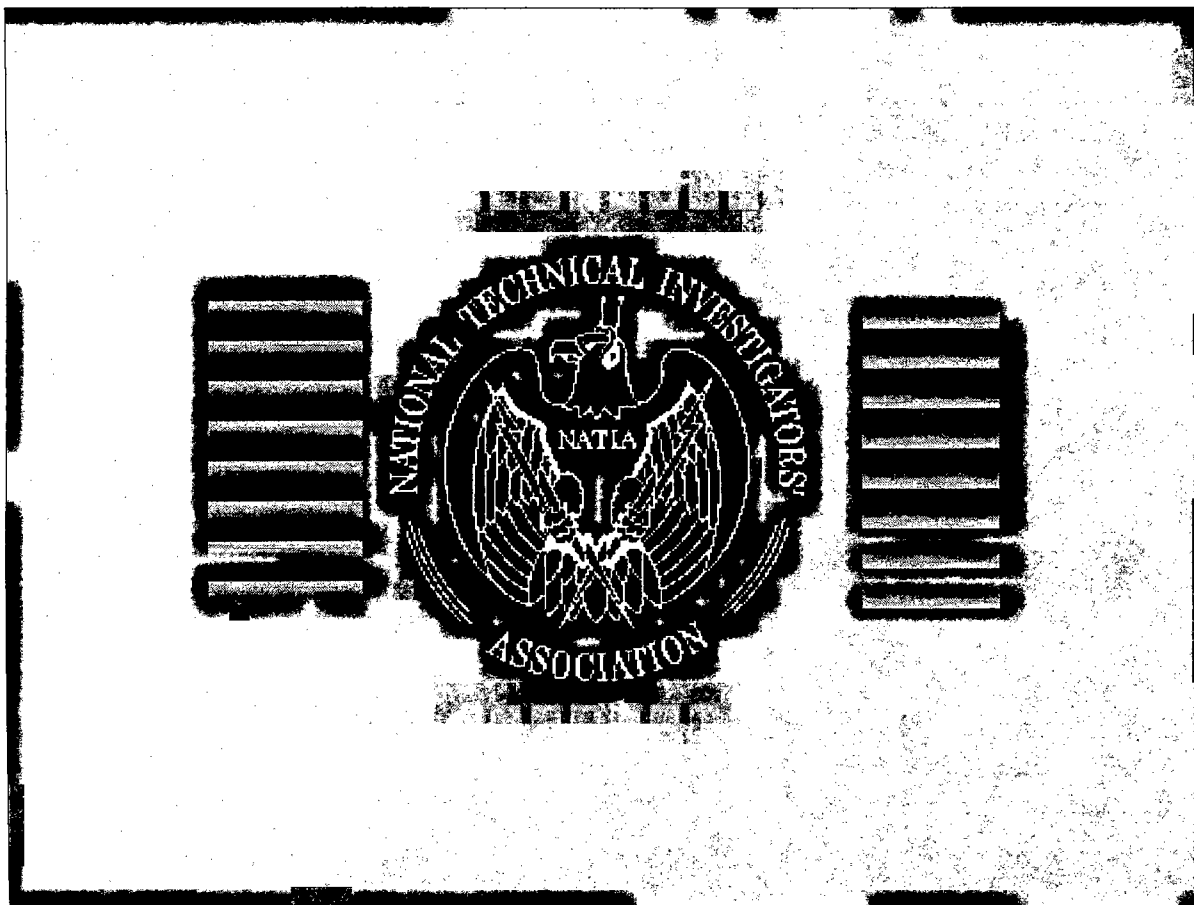
*Subjects: DCS-3000 and RED HOOK*

*File Number: DIVISION CD'S*

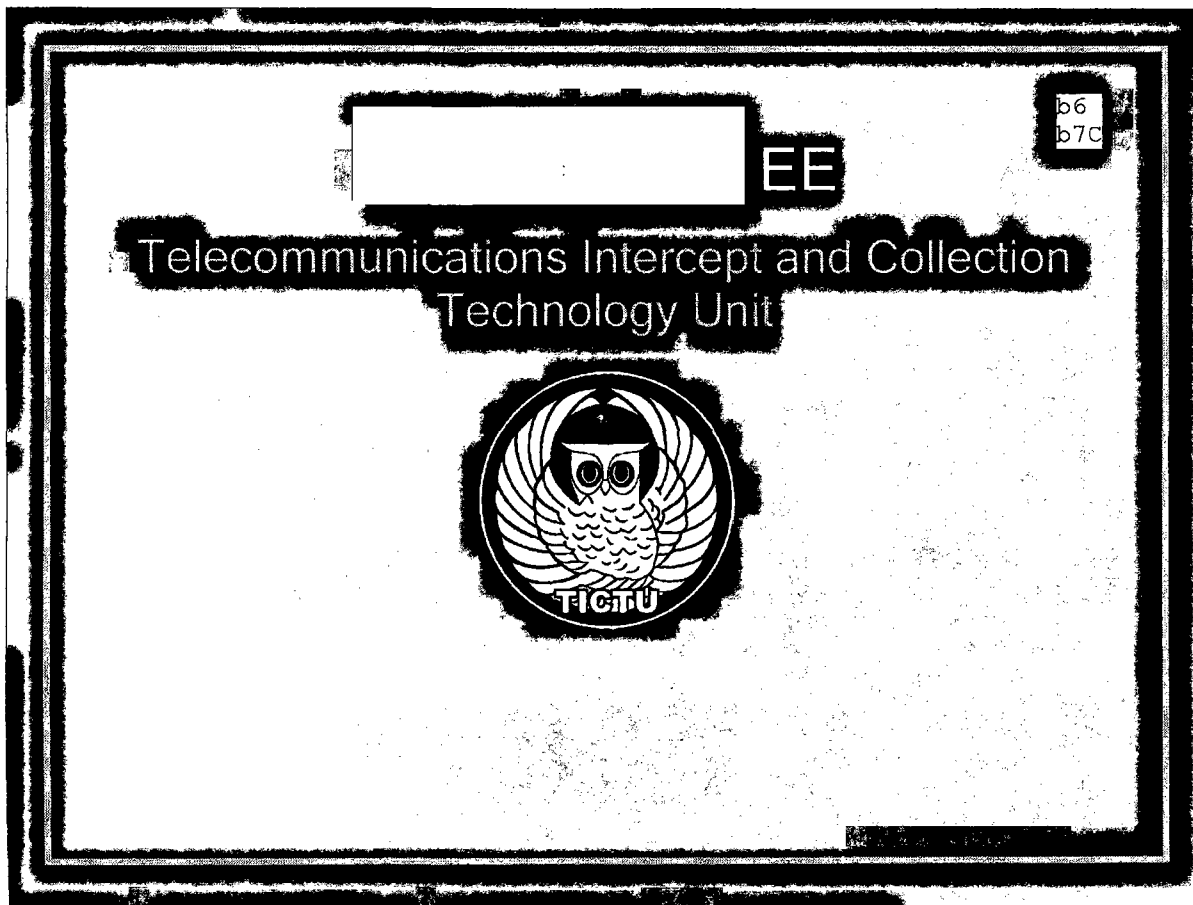
*Section: 5*



## *Federal Bureau of Investigation*



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pg-1

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DATE 05-29-2007 BY 65179dmh/ksr/maj

# event messages

- |                    |                            |
|--------------------|----------------------------|
| [1] Answer         | [10] TerminationAttempt    |
| [2] CCClose        | [11] ConnectionTest        |
| [3] CCOpen         | [12] ConferencePartyChange |
| [4] Change         | [13] Connection            |
| [5] Origination    | [14] ConnectionBreak       |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection    | [16] NetworkSignal         |
| [8] Release        | [17] SubjectSignal         |

b2  
b7E

Event messages are communicated through the Call Data Channel (CDC) and provide information related to calls, call participants, network activities and signaling information.

# event messages

- [1] Answer
- [2] CCClose
- [3] CCOpen
- [4] Change
- [5] Origination
- [6] PacketEnvelope
- [7] Redirection
- [8] Release
- [9] ServingSystem

## event messages

- [10] TerminationAttempt
- [11] ConnectionTest
- [12] ConferencePartyChange
- [13] Connection
- [14] ConnectionBreak
- [15] DialedDigitExtraction
- [16] NetworkSignal
- [17] SubjectSignal

b2  
b7E

The event messages are shown as they appear on the "detail" screen of the DCS-3000 client. What is displayed by your equipment may be different.

event messages



## event messages

- |                    |                            |
|--------------------|----------------------------|
| [1] Answer         | [10] TerminationAttempt    |
| [2] CCClose        | [11] ConnectionTest        |
| [3] CCOpen         | [12] ConferencePartyChange |
| [4] Change         | [13] Connection            |
| [5] Origination    | [14] ConnectionBreak       |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection    | [16] NetworkSignal         |
| [8] Release        | [17] SubjectSignal         |
| [9] ServingSystem  |                            |

b2  
b7E

### ServingSystem

Reports a change in the current service provider or service area for terminal or personal mobility.

event messages

## event messages

### CALL SERVING SYSTEM

Connection:

Nextel Test

Case ID:

Call Number:

Date: 04/30/2004

Time: 07:33:02.870

IAPSystemIdentity:

SystemIdentity:

Location:

b2  
b6  
b7C  
b7E

event messages



## event messages

- |                    |                            |
|--------------------|----------------------------|
| [1] Answer         | [10] TerminationAttempt    |
| [2] CCClose        | [11] ConnectionTest        |
| [3] CCOpen         | [12] ConferencePartyChange |
| [4] Change         | [13] Connection            |
| [5] Origination    | [14] ConnectionBreak       |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection    | [16] NetworkSignal         |
| [8] Release        | [17] SubjectSignal         |
| [9] ServingSystem  |                            |

b2  
b7E

### Origination

Reports authorized connection-oriented call origination attempts or number translations for the intercept subject performed by the Access Function.



event messages



## event messages

- |                    |                                          |
|--------------------|------------------------------------------|
| [1] Answer         | [10] TerminationAttempt                  |
| [2] CCClose        | [11] ConnectionTest                      |
| [3] CCOpen         | [12] ConferencePartyChange               |
| [4] Change         | [13] Connection                          |
| [5] Origination    | [14] ConnectionBreak                     |
| [6] PacketEnvelope | [15] DialedDigitExtraction <sup>b2</sup> |
| [7] Redirection    | [16] NetworkSignal <sup>b7E</sup>        |
| [8] Release        | [17] SubjectSignal                       |
| [9] ServingSystem  |                                          |

### Answer

Used to report that a connection-oriented call or leg has been answered.

event messages

- |                    |                            |
|--------------------|----------------------------|
| [1] Answer         | [10] TerminationAttempt    |
| [2] CCClose        | [11] ConnectionTest        |
| [3] CCOpen         | [12] ConferencePartyChange |
| [4] Change         | [13] Connection            |
| [5] Origination    | [14] ConnectionBreak       |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection    | [16] NetworkSignal         |
| [8] Release        | [17] SubjectSignal         |
| [9] ServingSystem  |                            |

b2  
b7E

**CCOpen**

Used to report the beginning of a call content delivery on the Call Content Channel (CCC).

event messages



## event messages

- |                    |                            |
|--------------------|----------------------------|
| [1] Answer         | [10] TerminationAttempt    |
| [2] CCClose        | [11] ConnectionTest        |
| [3] CCOpen         | [12] ConferencePartyChange |
| [4] Change         | [13] Connection            |
| [5] Origination    | [14] ConnectionBreak       |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection    | [16] NetworkSignal         |
| [8] Release        | [17] SubjectSignal         |
| [9] ServingSystem  |                            |

b2  
b7E

### CCClose

Used to report the end of the call content delivery on the Call Content Channel (CCC).

event messages

## event messages

- |                    |                               |
|--------------------|-------------------------------|
| [1] Answer         | [10] TerminationAttempt       |
| [2] CCClose        | [11] ConnectionTest           |
| [3] CCOpen         | [12] ConferencePartyChange    |
| [4] Change         | [13] Connection               |
| [5] Origination    | [14] ConnectionBreak          |
| [6] PacketEnvelope | [15] DialedDigitExtraction    |
| [7] Redirection    | <del>[16] NetworkSignal</del> |
| [8] Release        | [17] SubjectSignal            |
| [9] ServingSystem  |                               |

b2  
b7E

### DialedDigitExtraction

Reports cut-through digits dialed by the intercept subject.

event messages



## event messages

- |                    |                            |
|--------------------|----------------------------|
| [1] Answer         | [10] TerminationAttempt    |
| [2] CCClose        | [11] ConnectionTest        |
| [3] CCOpen         | [12] ConferencePartyChange |
| [4] Change         | [13] Connection            |
| [5] Origination    | [14] ConnectionBreak       |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection    | [16] NetworkSignal         |
| [8] Release        | [17] SubjectSignal         |
| [9] ServingSystem  |                            |

b2  
b7E

### PacketEnvelope

Delivers intercepted packets to the LEA.

event messages



event messages

- |                    |                            |
|--------------------|----------------------------|
| [1] Answer         | [10] TerminationAttempt    |
| [2] CCClose        | [11] ConnectionTest        |
| [3] CCOpen         | [12] ConferencePartyChange |
| [4] Change         | [13] Connection            |
| [5] Origination    | [14] ConnectionBreak       |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection    | [16] NetworkSignal         |
| [8] Release        | [17] SubjectSignal         |
| [9] ServingSystem  |                            |

b2  
b7E

Release

Reports that a connection-oriented call has been released.

event messages



## event messages

- |                    |                            |
|--------------------|----------------------------|
| [1] Answer         | [10] TerminationAttempt    |
| [2] CCClose        | [11] ConnectionTest        |
| [3] CCOpen         | [12] ConferencePartyChange |
| [4] Change         | [13] Connection            |
| [5] Origination    | [14] ConnectionBreak       |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection    | [16] NetworkSignal         |
| [8] Release        | [17] SubjectSignal         |
| [9] ServingSystem  |                            |

b2  
b7E

### TerminationAttempt

Reports a connection-oriented call termination attempt.

event messages



## event messages

- |                    |                                   |
|--------------------|-----------------------------------|
| [1] Answer         | [10] TerminationAttempt           |
| [2] CCClose        | [11] ConnectionTest               |
| [3] CCOpen         | [12] ConferencePartyChange        |
| [4] Change         | [13] Connection                   |
| [5] Origination    | [14] ConnectionBreak              |
| [6] PacketEnvelope | [15] DialedDigitExtraction        |
| [7] Redirection    | [16] NetworkSignal <sup>b2</sup>  |
| [8] Release        | [17] SubjectSignal <sup>b7E</sup> |
| [9] ServingSystem  |                                   |

### Redirection

Indicates that in incoming connection-oriented call attempt, originally directed toward a subject, has been redirected by the subject.



event messages



## event messages

- |                    |                            |
|--------------------|----------------------------|
| [1] Answer         | [10] TerminationAttempt    |
| [2] CCClose        | [11] ConnectionTest        |
| [3] CCOpen         | [12] ConferencePartyChange |
| [4] Change         | [13] Connection            |
| [5] Origination    | [14] ConnectionBreak       |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection    | [16] NetworkSignal         |
| [8] Release        | [17] SubjectSignal         |
| [9] ServingSystem  |                            |

b2  
b7E

### Change

Used to report merging or splitting of connection-oriented call identities.

event messages



## event messages

- |                    |                                          |
|--------------------|------------------------------------------|
| [1] Answer         | [10] TerminationAttempt                  |
| [2] CCClose        | [11] ConnectionTest                      |
| [3] CCOpen         | [12] ConferencePartyChange               |
| [4] Change         | [13] Connection                          |
| [5] Origination    | [14] ConnectionBreak                     |
| [6] PacketEnvelope | [15] DialedDigitExtraction <sup>b2</sup> |
| [7] Redirection    | [16] NetworkSignal <sup>b7E</sup>        |
| [8] Release        | [17] SubjectSignal                       |
| [9] ServingSystem  |                                          |

### ConferencePartyChange

Reports a change in the parties to a subject initiated conference call communication.

event messages

- 
- ## event messages
- 
- |                    |                                         |
|--------------------|-----------------------------------------|
| [1] Answer         | [10] TerminationAttempt                 |
| [2] CCClose        | [11] ConnectionTest                     |
| [3] CCOpen         | [12] ConferencePartyChange              |
| [4] Change         | [13] Connection                         |
| [5] Origination    | [14] ConnectionBreak                    |
| [6] PacketEnvelope | [15] DialedDigitExtract <sup>b2 n</sup> |
| [7] Redirection    | [16] NetworkSignal <sup>b7E</sup>       |
| [8] Release        | [17] SubjectSignal                      |
| [9] ServingSystem  |                                         |

### Connection

Reports parties to a call under surveillance.

event messages



event messages

- |                    |                            |
|--------------------|----------------------------|
| [1] Answer         | [10] TerminationAttempt    |
| [2] CCClose        | [11] ConnectionTest        |
| [3] CCOpen         | [12] ConferencePartyChange |
| [4] Change         | [13] Connection            |
| [5] Origination    | [14] ConnectionBreak       |
| [6] PacketEnvelope | [15] DialedDigitExtract    |
| [7] Redirection    | [16] NetworkSignal         |
| [8] Release        | [17] SubjectSignal         |
| [9] ServingSystem  |                            |

b2  
b7E

ConnectionBreak

Reports parties removed from a call under surveillance.

event messages



## event messages

- |                    |                                       |
|--------------------|---------------------------------------|
| [1] Answer         | [10] TerminationAttempt               |
| [2] CCClose        | [11] ConnectionTest                   |
| [3] CCOpen         | [12] ConferencePartyChange            |
| [4] Change         | [13] Connection                       |
| [5] Origination    | [14] ConnectionBreak                  |
| [6] PacketEnvelope | [15] DialedDigitExtract <sup>b2</sup> |
| [7] Redirection    | [16] NetworkSignal <sup>b7E</sup>     |
| [8] Release        | [17] SubjectSignal                    |
| [9] ServingSystem  |                                       |

### NetworkSignal

Reports network signals sent to the intercept subject.

event messages



## event messages

- |                    |                                       |
|--------------------|---------------------------------------|
| [1] Answer         | [10] TerminationAttempt               |
| [2] CCClose        | [11] ConnectionTest                   |
| [3] CCOpen         | [12] ConferencePartyChange            |
| [4] Change         | [13] Connection                       |
| [5] Origination    | [14] ConnectionBreak                  |
| [6] PacketEnvelope | [15] DialedDigitExtract <sup>b2</sup> |
| [7] Redirection    | [16] NetworkSignal <sup>b7E</sup>     |
| [8] Release        | <del>[17] SubjectSignal</del>         |
| [9] ServingSystem  |                                       |

### SubjectSignal

Reports all incoming signaling input by the intercept subject.

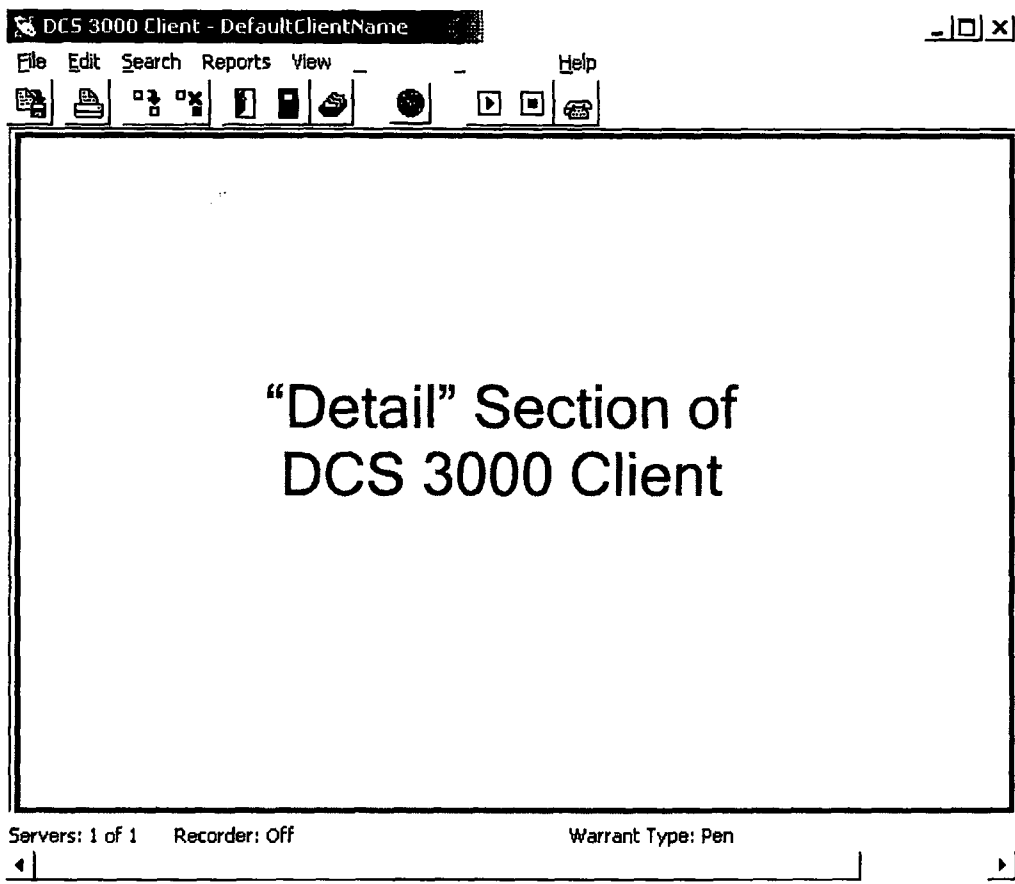
event messages

- |                    |                                       |
|--------------------|---------------------------------------|
| [1] Answer         | [10] TerminationAttempt               |
| [2] CCClose        | [11] ConnectionTest                   |
| [3] CCOpen         | [12] ConferencePartyChange            |
| [4] Change         | [13] Connection                       |
| [5] Origination    | [14] ConnectionBreak                  |
| [6] PacketEnvelope | [15] DialedDigitExtract <sup>b2</sup> |
| [7] Redirection    | [16] NetworkSignal <sup>b7E</sup>     |
| [8] Release        | [17] SubjectSignal                    |
| [9] ServingSystem  |                                       |

**ConnectionTest**

Optional message that may be used to verify the connectivity of the Call Data Channel (CDC). This message may be sent during the provisioning process or at any other time.

event messages

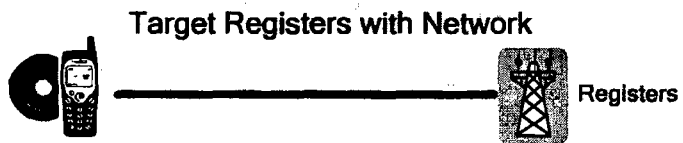


b2  
b7E



event messages

# Target Registration



b2  
b7E

event messages

DCS 3000 Client - DefaultClientName

File Edit Search Reports View Help

CALL SERVING SYSTEM

Connection: [redacted] Test

Case ID: [redacted]

Call Number:

Date: 04/30/2004 Time: 07:33:02.870

IAPSystemIdentity: [redacted]

SystemIdentity:

Location:

b2  
b7E

b2  
b6  
b7C  
b7E

Servers: 1 of 1 Recorder: Off Warrant Type: Pen

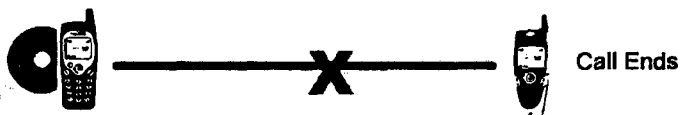
event messages

# 1: Outgoing Call - No Answer

Target Initiates Outgoing Call to Associate



Target Disconnects



b2  
b7E

event messages

DCS 3000 Client - DefaultClientName

File Edit Search Reports View Help

CALL ORCEONETION

Connection: [redacted] Test

Case ID: [redacted]

Dated 04/30/2004 Time [redacted]

CASystemIdentity: [redacted]

Call Number: 9828327

Rec 04/30/2004 Time 3823:34:50.340

Location: L:167 C:60396 MCC/MNC:31601

CALLING LEASE

CASystemIdentity: [redacted]

Transmission Input: [redacted]

Call Number: 0276327

DATA: CCOPEN/2004 Time: 07:35:05.820

Connection Area Code: [redacted] T68896 MCC/MNC:31601

CASystemIdentity: [redacted]

Date: 04/30/2004 Time: 07:34:50.400

CCOPEN and CCCLOSE messages apply to call content and should not appear if the target has been provisioned solely for Pen Register surveillance.

Servers: 1 of 1 Recorder: Off

b2  
b6  
b7C  
b7E

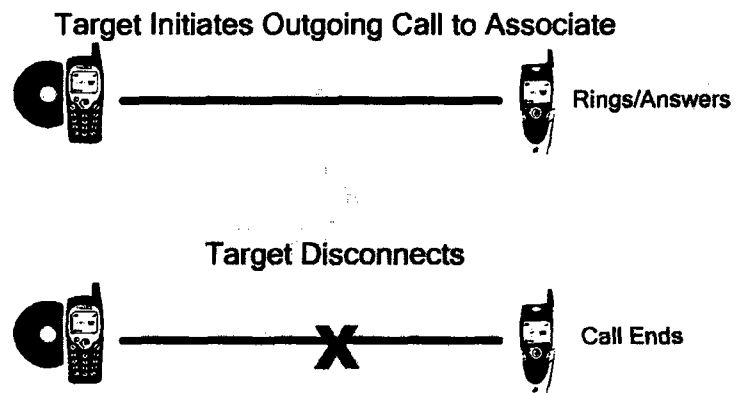
b2  
b6  
b7C  
b7E

b2  
b7E

b2  
b7E

event messages

## 2: Outgoing Call - Answered



b2  
b7E

event messages

DCS 3000 Client - DefaultClientName

File Edit Search Reports View Help

CALL ANSWERATION

Connection: [redacted] Test

Case ID: [redacted]

CallerNumber: [redacted]

Date: 04/30/2004 Time: [redacted]

CallNumber: 0276329

CallSys: 04/30/2004 Time: [redacted] b2 b7E

Location: L:167 C:60396 MCC/MNC:31601

CALLING CESS

CARSystemIdentity: [redacted]

CaseID: 07:36:34.300

Date: 04/30/2004 Time: 07:36:34.300

CARSystemIdentity: [redacted]

CaseID: 07:35:36.630

Date: 04/30/2004 Time: 07:35:36.630

CARSystemIdentity: [redacted]

CaseID: 0276329

Date: 04/30/2004 Time: 0276329:34.300

Location Area Code: L:167 C:60396 MCC/MNC:31601

Servers: 1 of 1 Recorder: Off

event messages

### 3: Incoming Call - No Answer

Target Receives Incoming Call from Associate



Associate Disconnects



b2  
b7E

event messages

DCS 3000 Client - DefaultClientName

File Edit Search Reports View Help

CALLING INFORMATION ATTEMPT

Original Called Number: [redacted] Test

Case ID/Redirecting Number: [redacted]

Called On: 04/30/2004 Time: [redacted]

Calling Party Reason: [redacted]

Supplementary Notif: 9826331

Dep Rec: 04/30/2004 Time: 3827:36:51.170

Called ESN:

Calling Party Identity: [redacted]

Connection: Nextel Test

NETWORK: SIGNAL [redacted]

Called On: 04/30/2004 Time: [redacted]

Dep Rec: 04/30/2004 Time: [redacted]

Calling Party Identity: [redacted] ACC/MNC: 31601

Supplementary Notif: Time: [redacted]

System Identity: [redacted]

Calling Party ID: 0276331

Audible Signal:

General Display:

Called Number:

Calling Number: [redacted]

Servers: 1 of 1 Recorder: Off

b2  
b7E  
b2  
b6  
b7C  
b7E



## 4: Incoming Call - Answered

Target Receives Incoming Call from Associate



Associate Disconnects



b2  
b7E

event messages

DCS 3000 Client - DefaultClientName

File Edit Search Reports View Help

CallName: [REDACTED]

OriginatingNumber: [REDACTED]

Date: 08/22/2004 Number: [REDACTED]

RedactedName: [REDACTED] MCC/MNC: 31601

CallType: 02859821420

Make: 04/22/2004 Time: 07:37:25.650

CalledCEUSE

CallSystemIdentity: [REDACTED] 5T420

CALL TO OPEN

Network: 08/22/2004 Time: [REDACTED]

CallSystemIdentity: [REDACTED]

Sept: 08/22/2004 Time: [REDACTED]

CallType: [REDACTED]

CallSystemIdentity: [REDACTED]

ReportSignal: [REDACTED] Test

End: 08/22/2004 [REDACTED]

CallNumDisplay: 0276332

Date: 08/22/2004 Time: 07:38:22.940

CallNumberCode: [REDACTED] 0268888 MCC/MNC: 31601

IAPSystemIdentity: [REDACTED]

Servers: 1 of 1 Recorder: Off

b2  
b6  
b7C  
b2  
b7E

## 5: Incoming Call to Voicemail

Target Receives Incoming Call from Associate



Unanswered Call Forwarded to Voicemail



Associate Disconnects



b2  
b7E

b2  
b6  
b7C  
b7E

## 6: Outgoing Call - Answered Incoming Call - Unanswered

Target Initiates Outgoing Call to Associate 1



Target Receives Incoming Call from Associate 2



b2  
b7E

1000

[illegible]

## 7: Outgoing Call - Answered

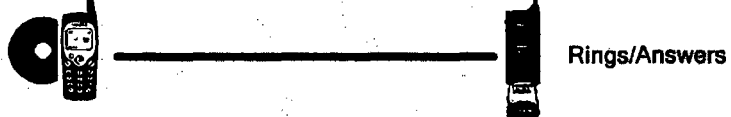
### 2<sup>nd</sup> Outgoing Call - Answered

(second call ends before first)

Target Initiates Outgoing Call to Associate 1



Target Initiates Outgoing Call to Associate 2



b2  
b7E

1

b2  
b6  
b7C  
b7E



## 8: Outgoing Call - Answered 2<sup>nd</sup> Outgoing Call - Answered Conference Both Calls

Target Initiates Outgoing Call to Associate 1

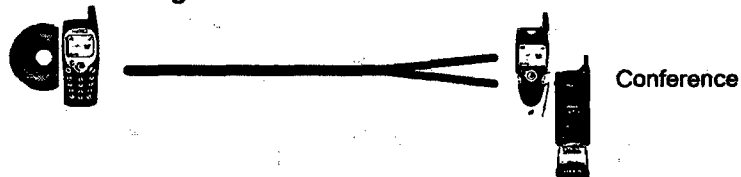


Target Initiates Outgoing Call to Associate 2



b2  
b7E

Target Conferences Both Calls

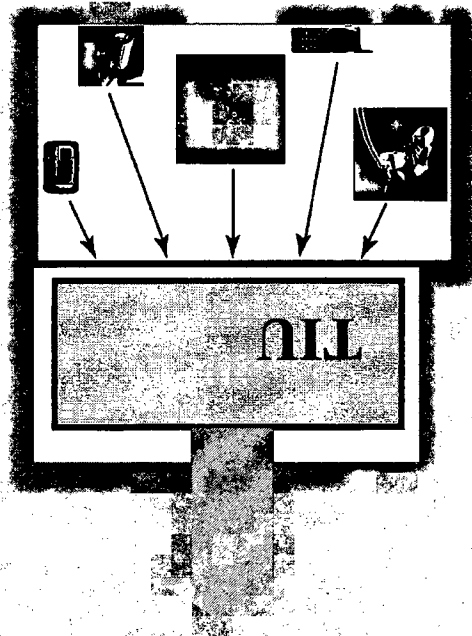


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b2  
b6  
b7C  
b7E

# TICTU West Coast Conference

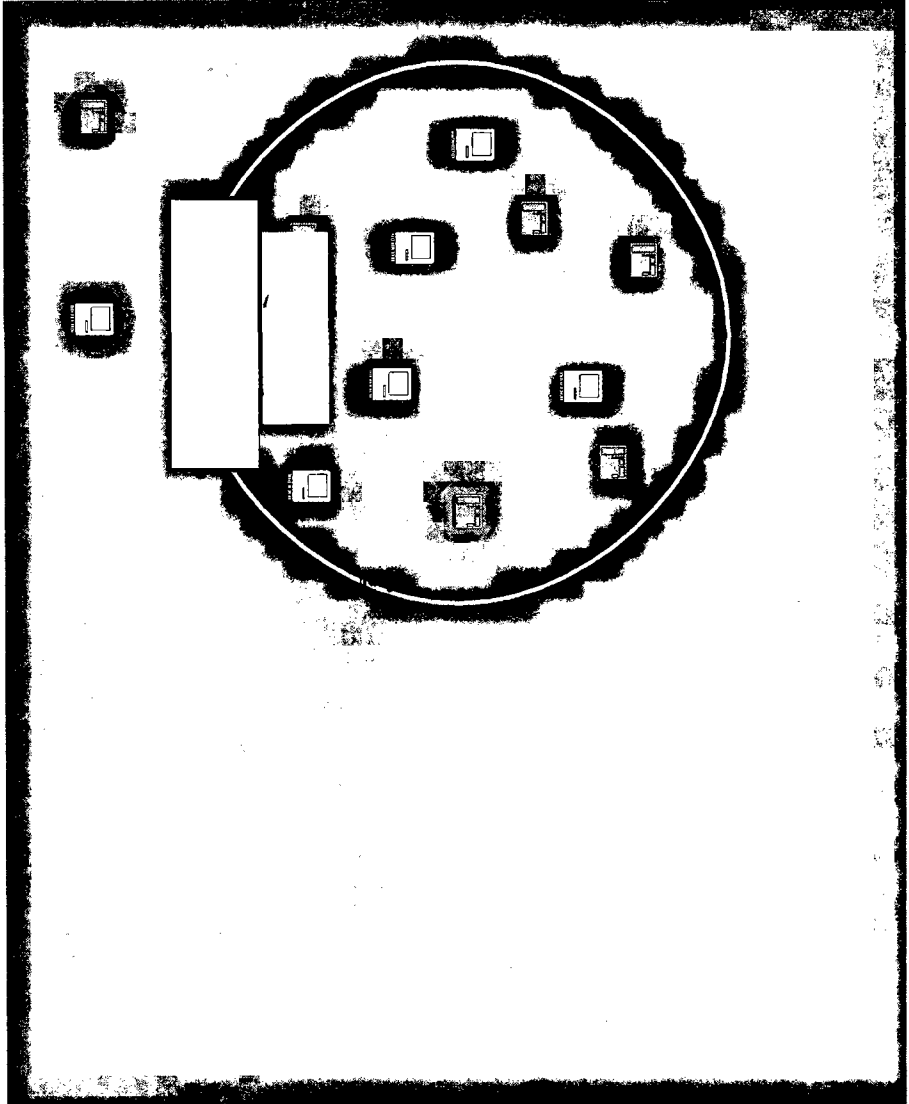
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DATE 05-29-2007 BY 65179dmd/xsr/maj

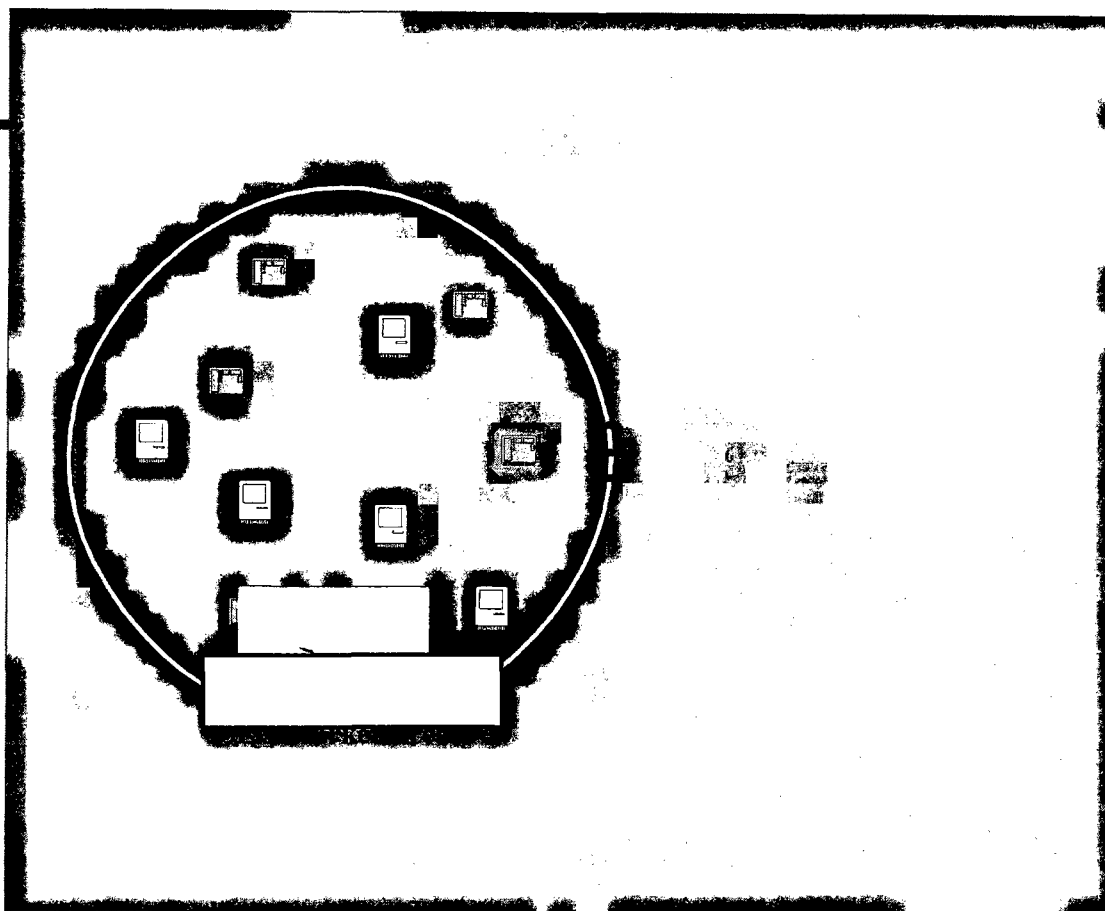
## TICTU West Coast Conference



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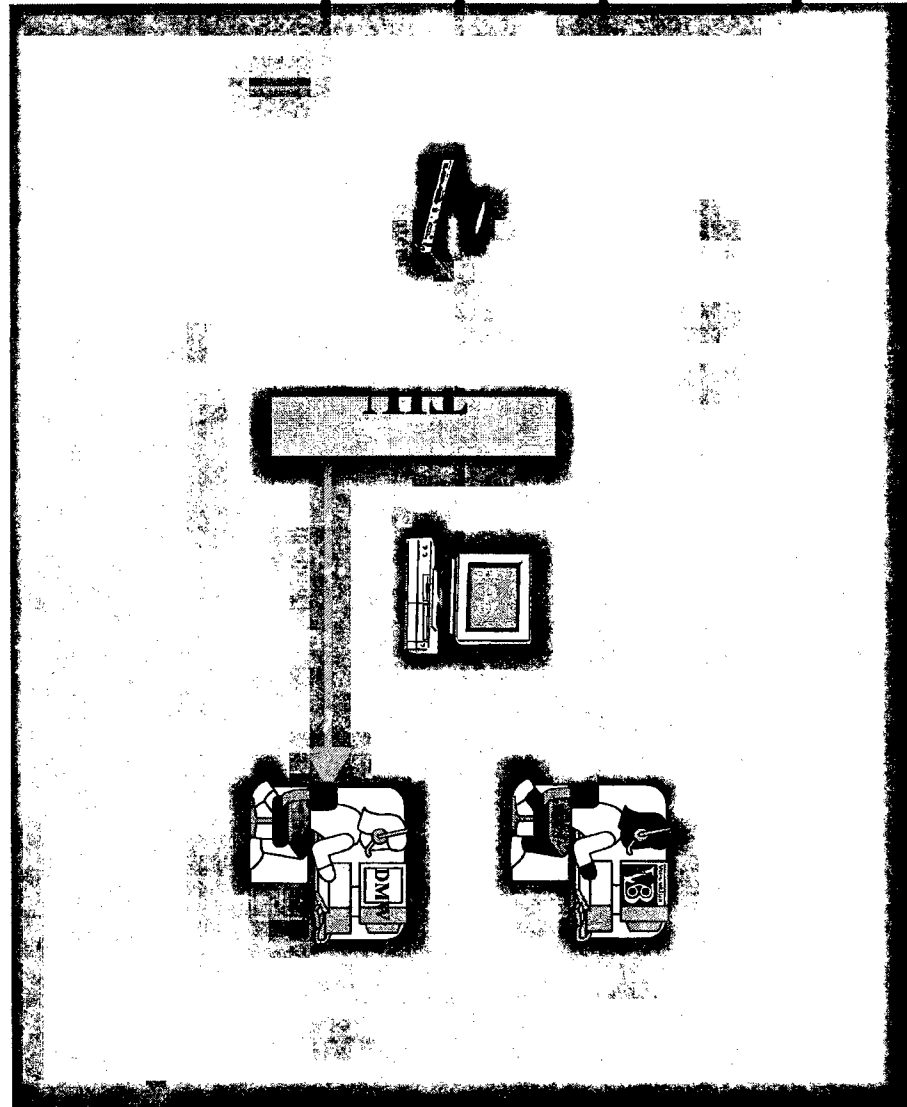
b2  
b7E

# TICTU West Coast Conference



b2  
b7E

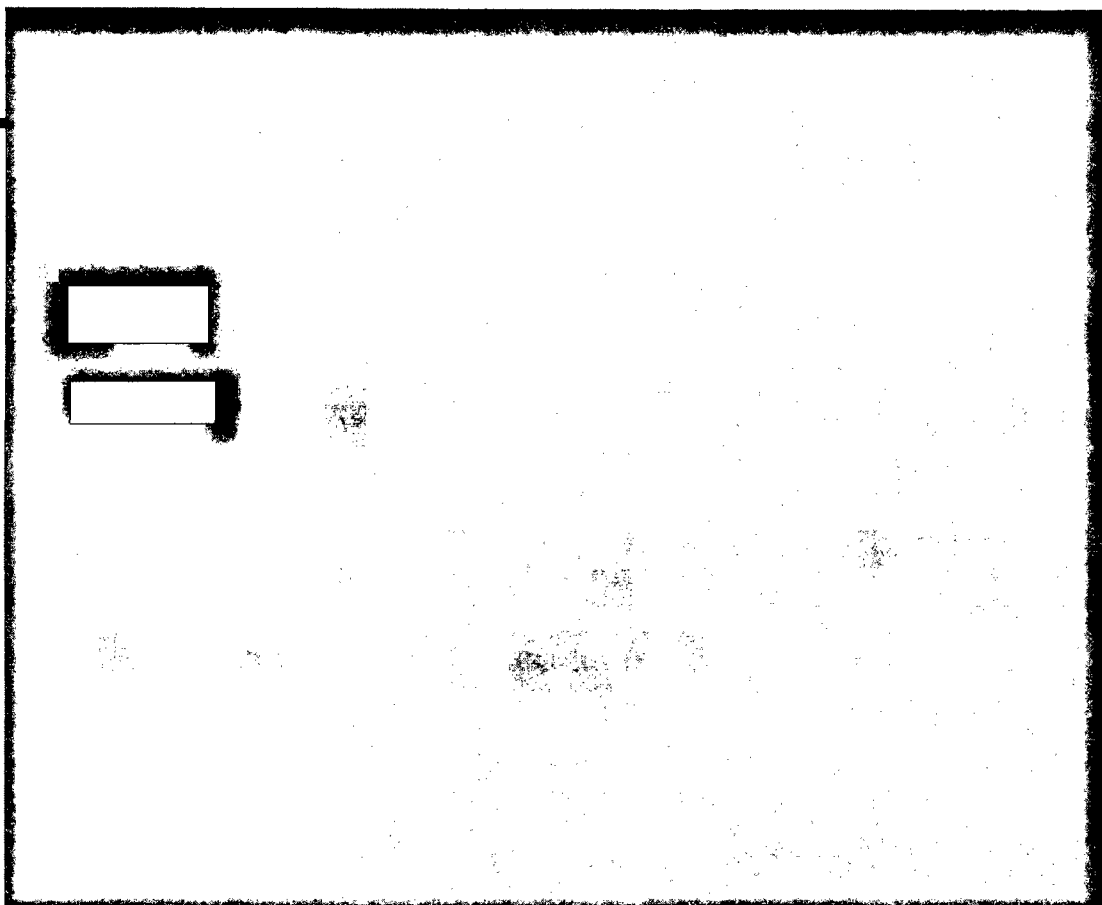
# TICTU West Coast Conference



pg-4

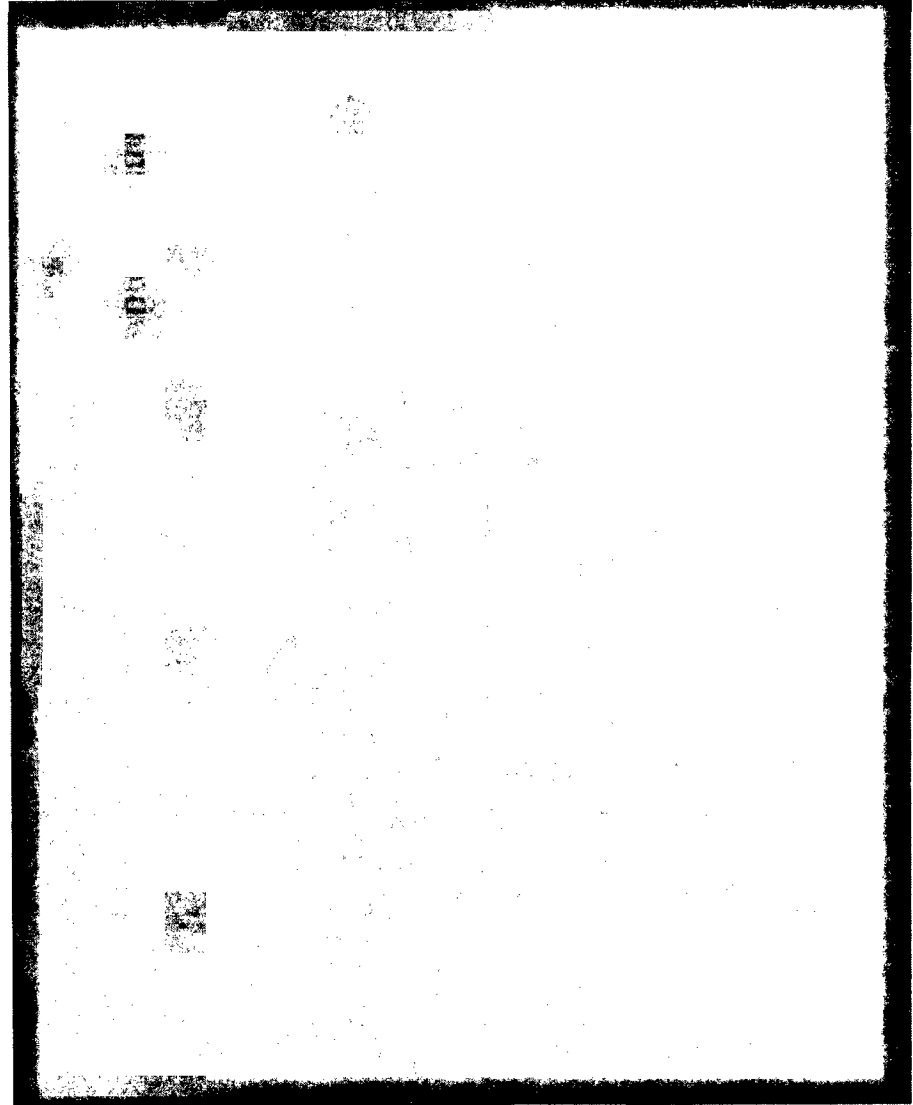
b2  
b7E

## TICTU West Coast Conference



## TICTU West Coast Conference

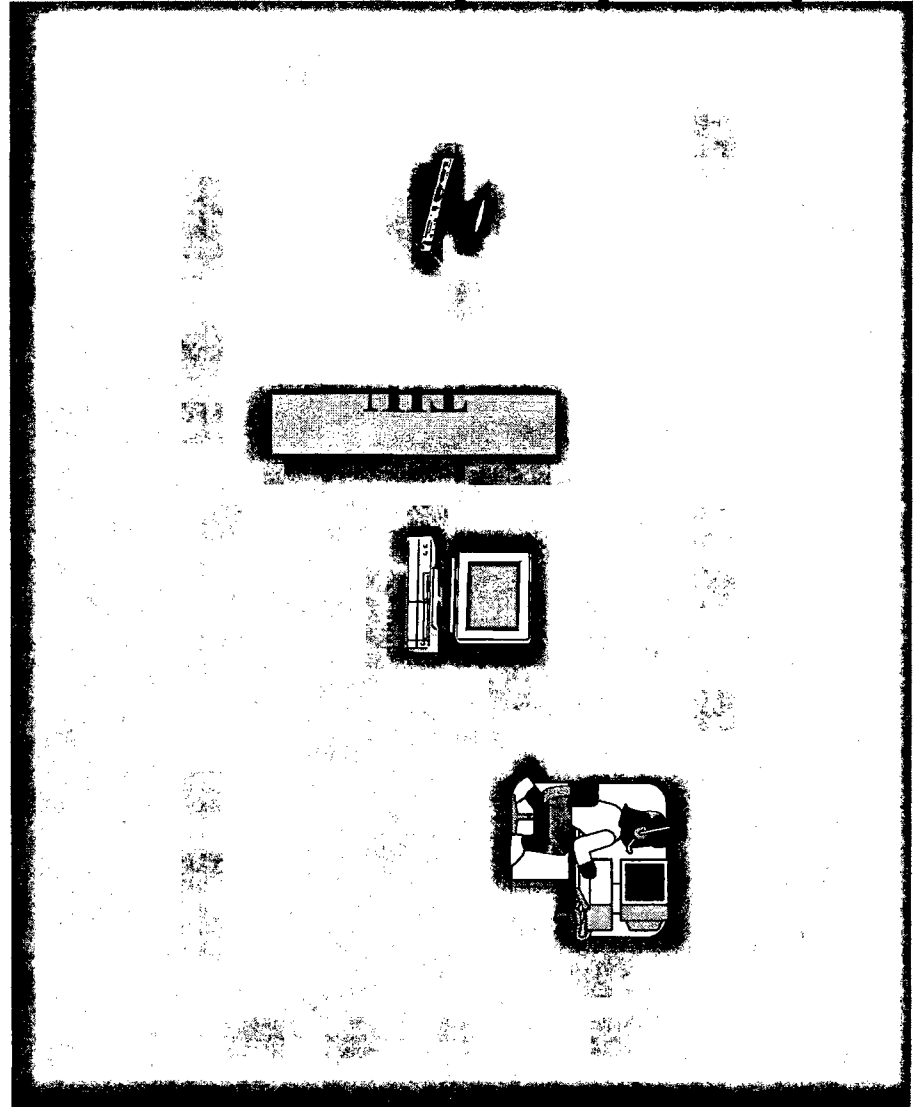
pg-6



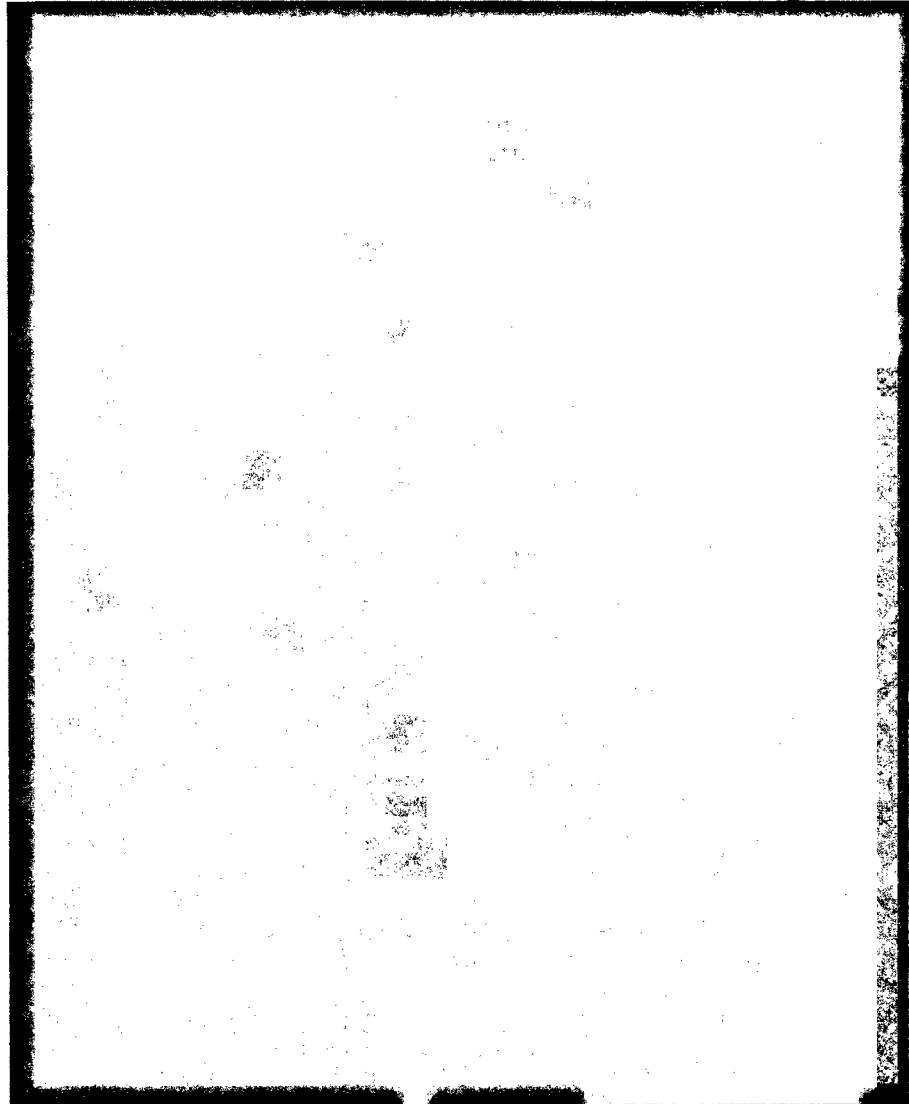


# TICTU West Coast Conference

pg-7



## TICTU West Coast Conference

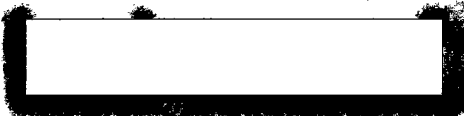


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Switch Based Intercepts Course

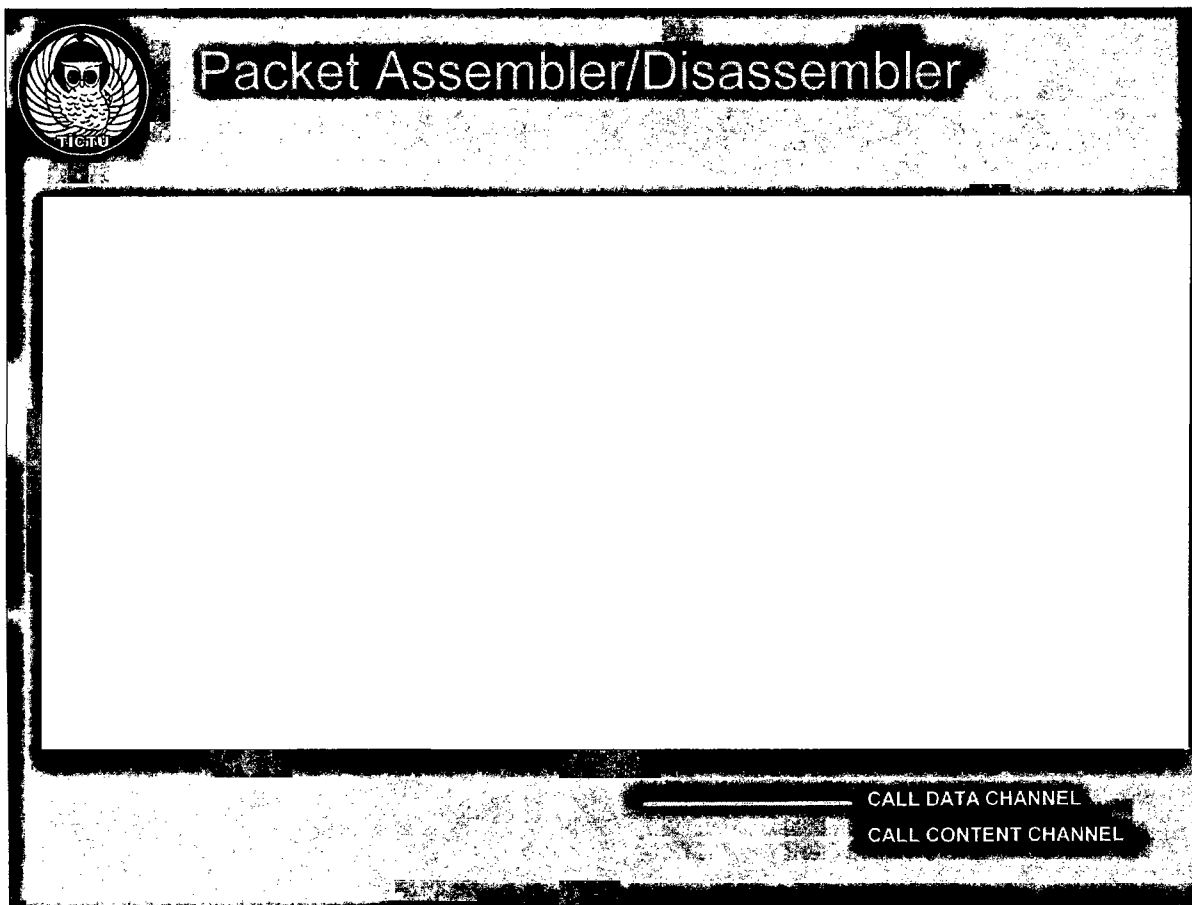
**Packet**  
**Assembler/Disassembler**



b6  
b7C

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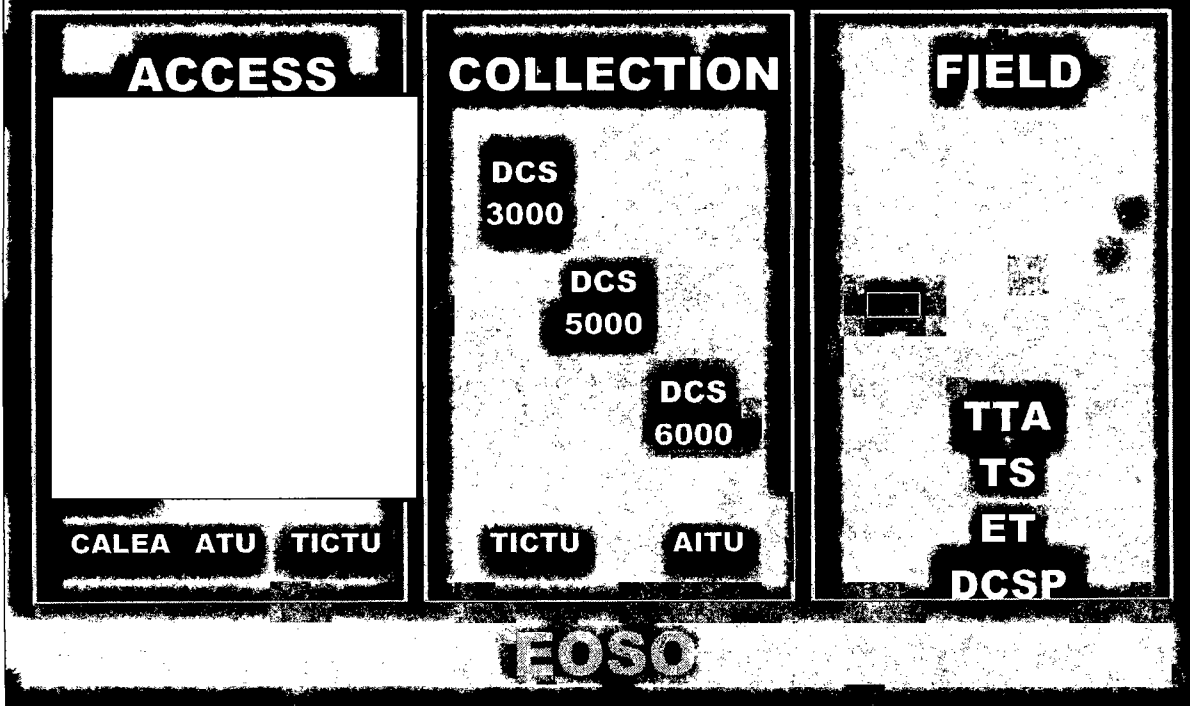


pg-1

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# Ensuring ELSUR Capability



b2  
b7E



EL SUR TOUR

YESTERDAY

TODAY

TOMORROW



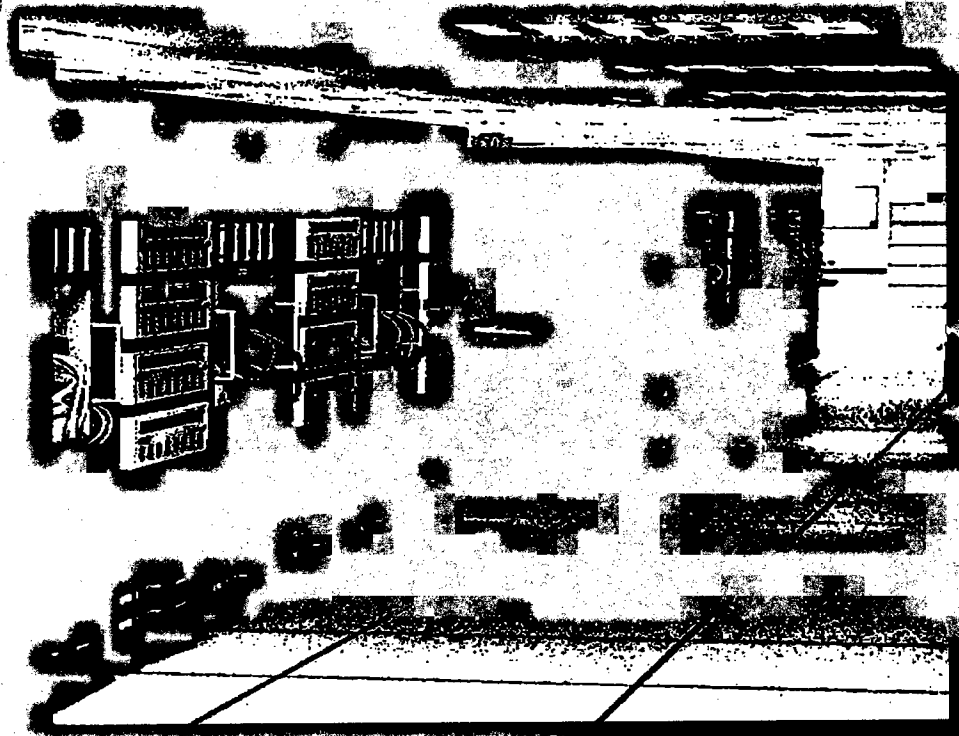
## Space Planning

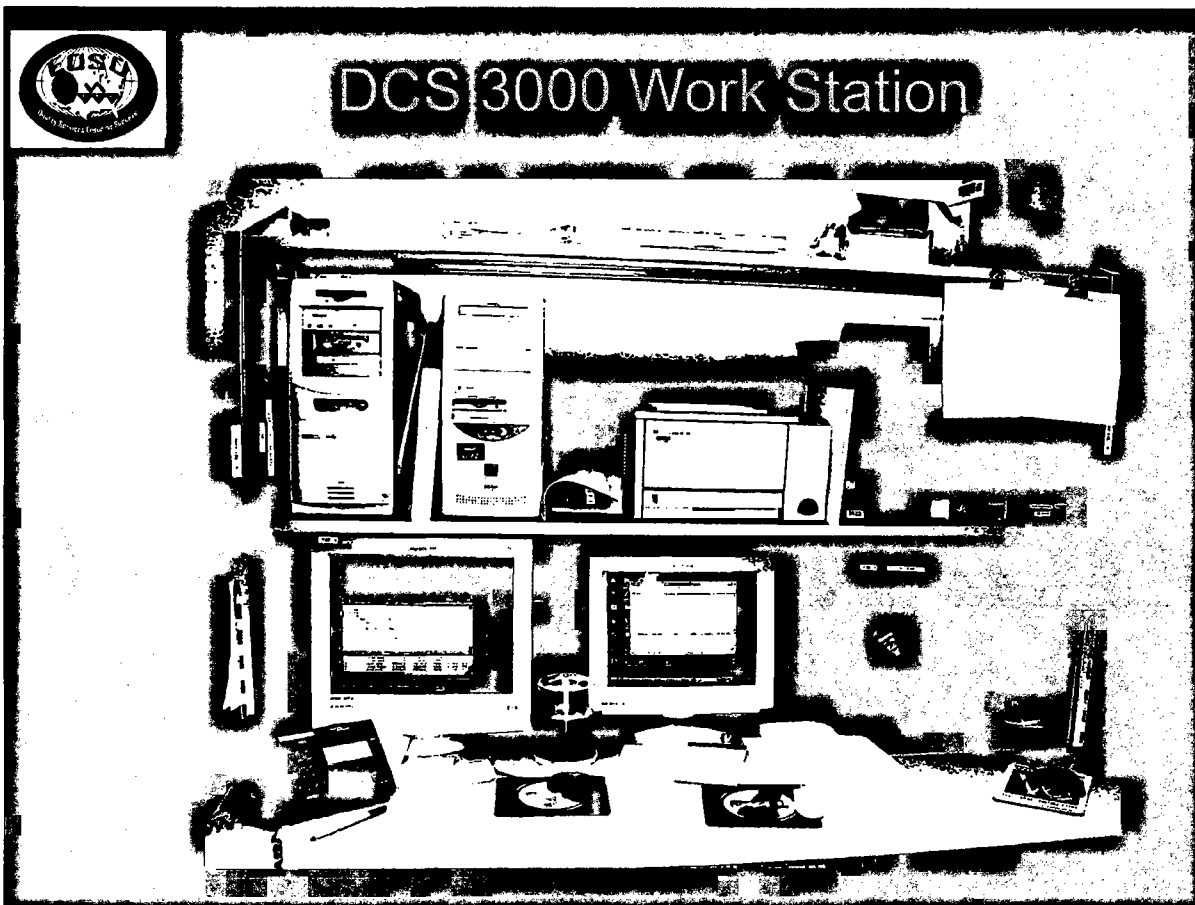
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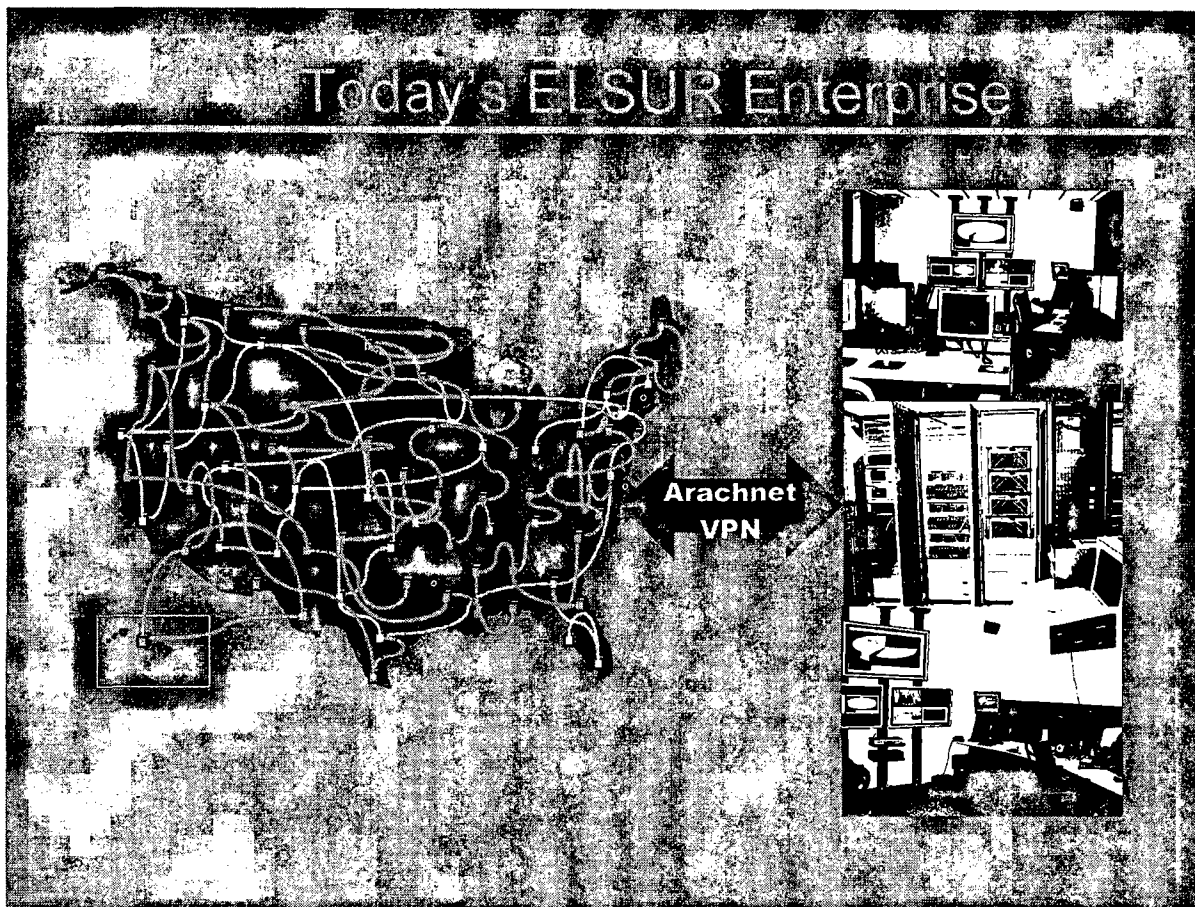


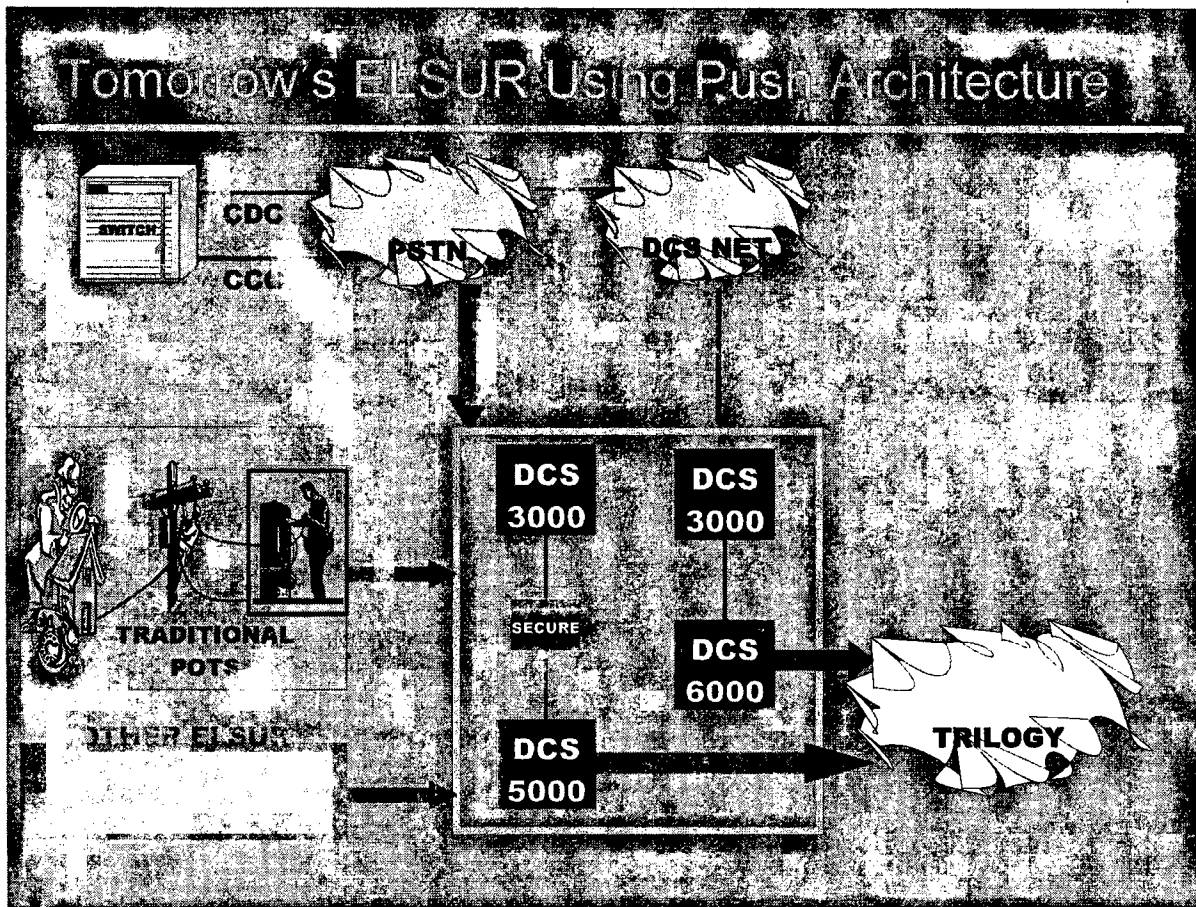


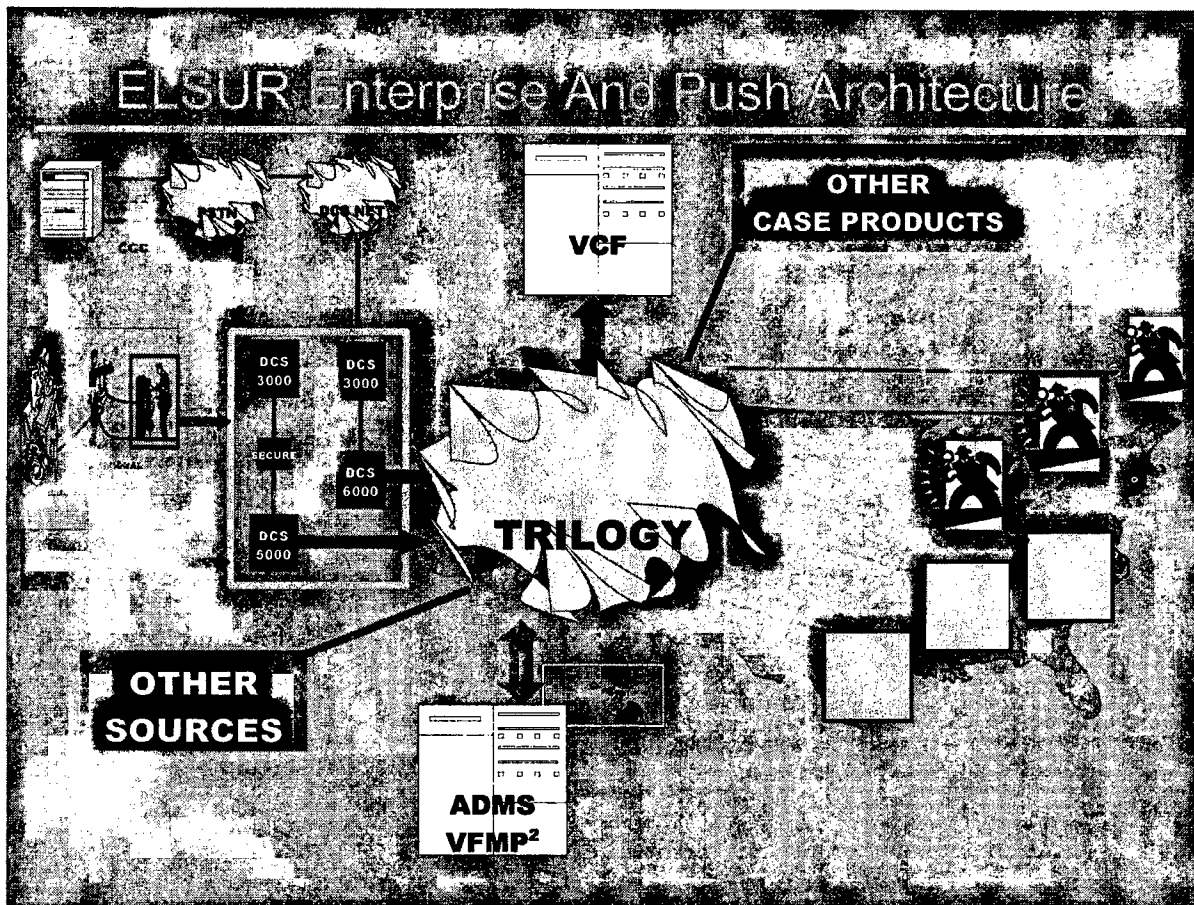
## Digital Collection System













# TICTU South Conference

Telecommunications Intercept and Collection Technology Unit



[REDACTED] ssues

## The "One Way Push"



[REDACTED] EE

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b7E



## **TICTU South Conference** *The "One Way Push"*



b2  
b7E

Task Force formed after 9/11 to ensure  
security needs of FBI defined and  
implemented

Includes testing, certification and  
accreditation

Encompasses all ELSUR equipment and  
DCSNet



# **TICTU South Conference**

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## **Certification & Accreditation Status**

**DCS-3000**

APPROVED

**DCS-5000**

IN PROGRESS

**DCS-6000**

APPROVED

**Arachnet**

IN PROGRESS

**DCSNet**

APPROVED



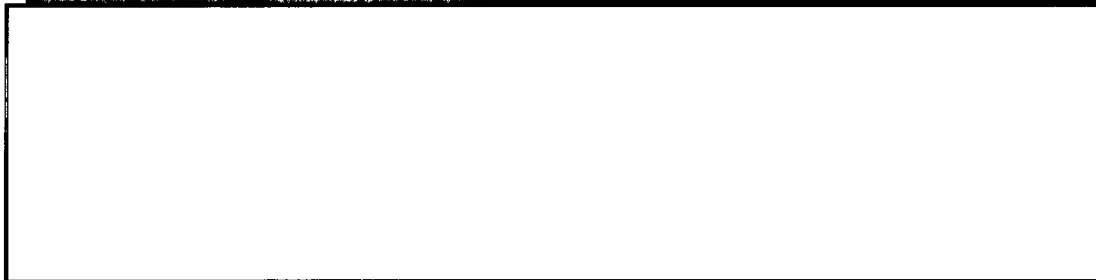


# **TICTU South Conference**

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## **Configuration for Criminal Cases**



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b7E

Call Content (CCC)    Call Data (CDC)

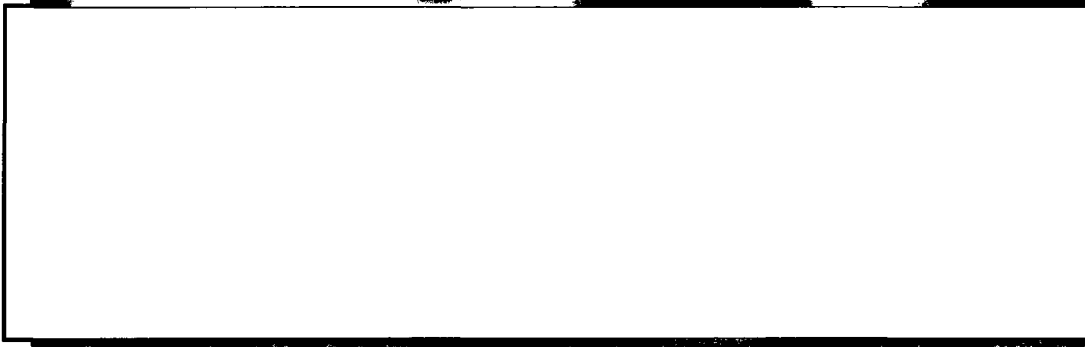


# **TICTU South Conference**

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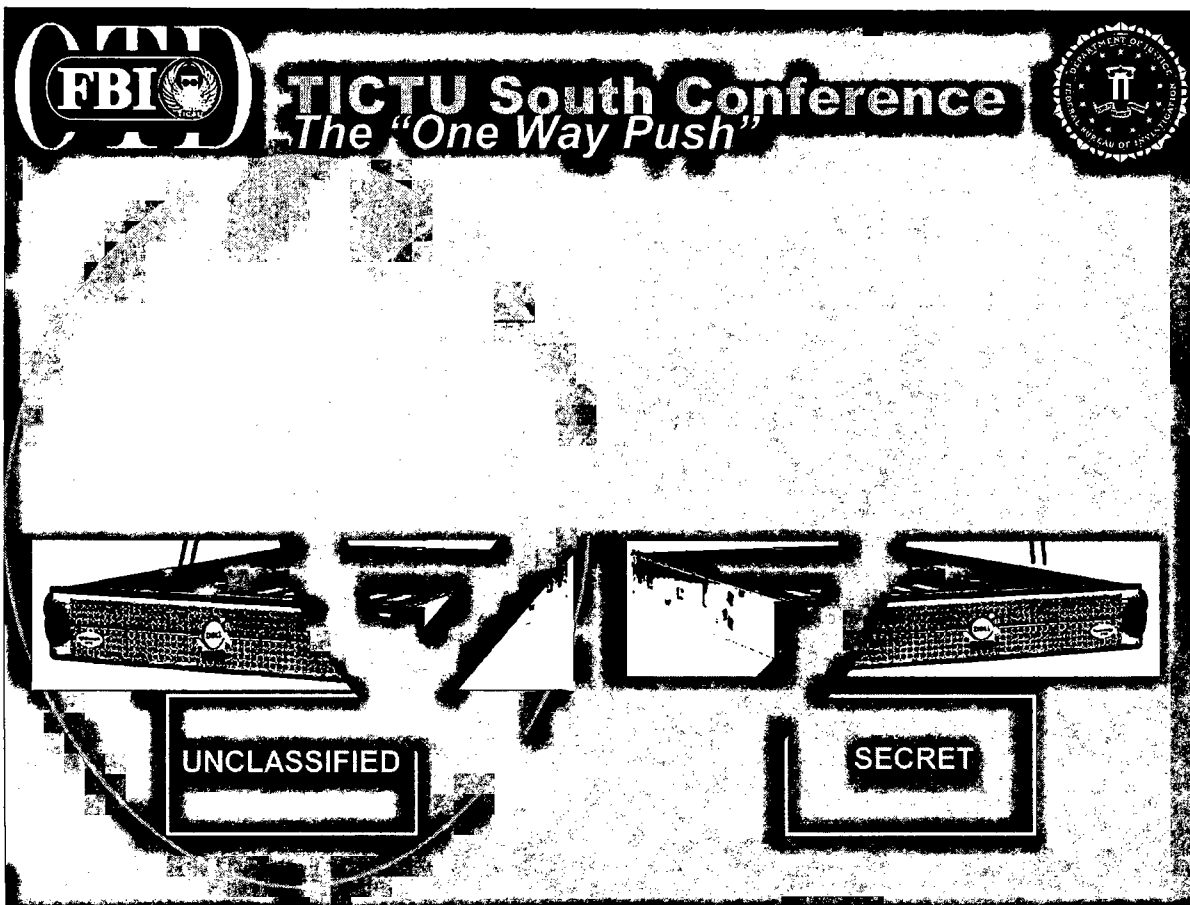


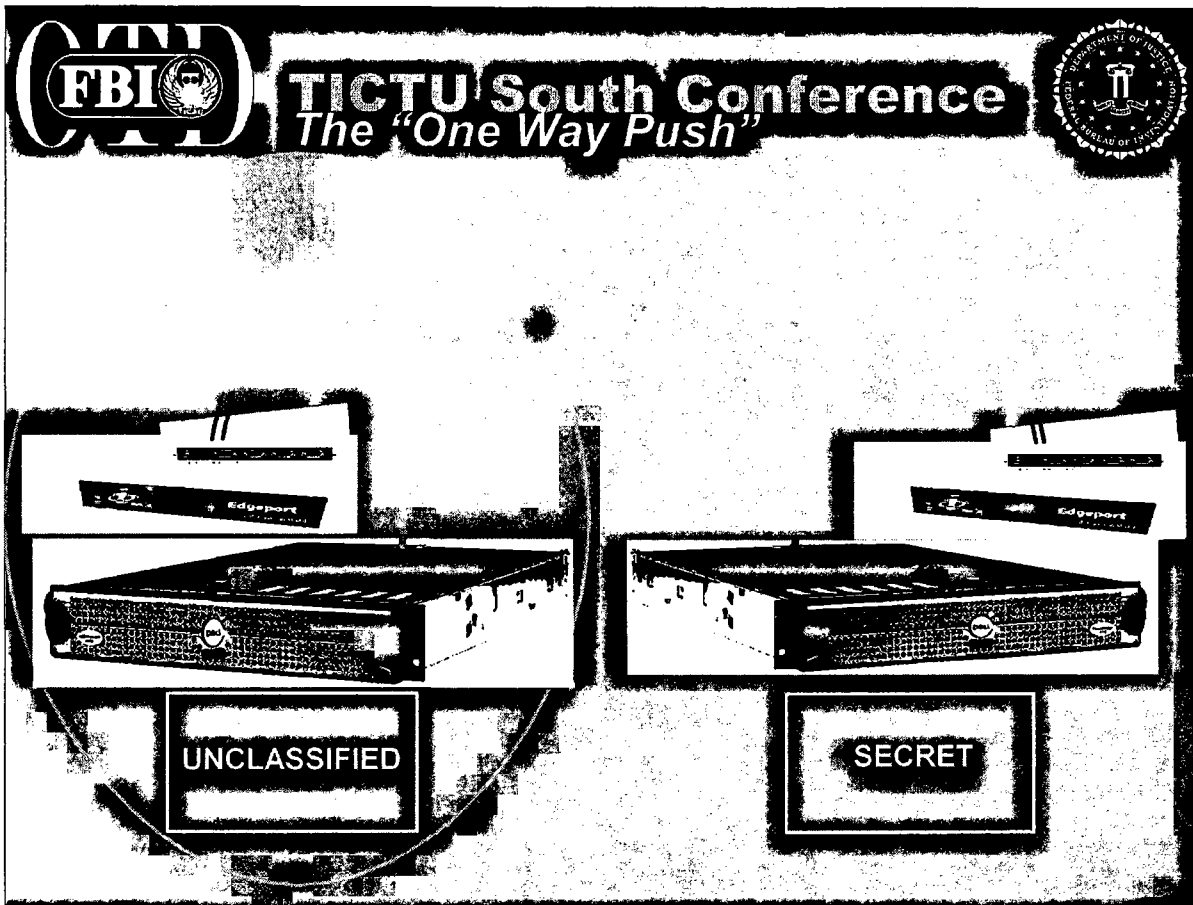
## **Configuration for FISA Cases**



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Call Content (CCC) ■ Call Data (CDC)









# **TICTU South Conference**

*The "One Way Push"*

## **Configuration for FISA Cases**



Call Content (CCC)    Call Data (CDC)



## **TICTU South Conference** *The "One Way Push"*



### **Deployment Update**

**Twenty-eight systems deployed to field**

**Twenty systems installed – not activated**

**Next generation servers ordered**



## **TICTU South Conference** *The "One Way Push"*



### **Field Test Update**

**Live testing underway in Chicago, Salt Lake City and Tampa**

**Proceeding with caution to ensure that full package can be delivered to field**

**Risk Management – key element in deployment**





# **TICTU South Conference**

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## **ERF Test Update**



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**TIU management – multiple TIUs**

**Next Generation Servers -**

**PowerEdge 2850; OS Win 2003 Server**



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## **Test Successes**



**Intercept method: 98% dial-ups using  
loop-closure method, approx. 30 lines**

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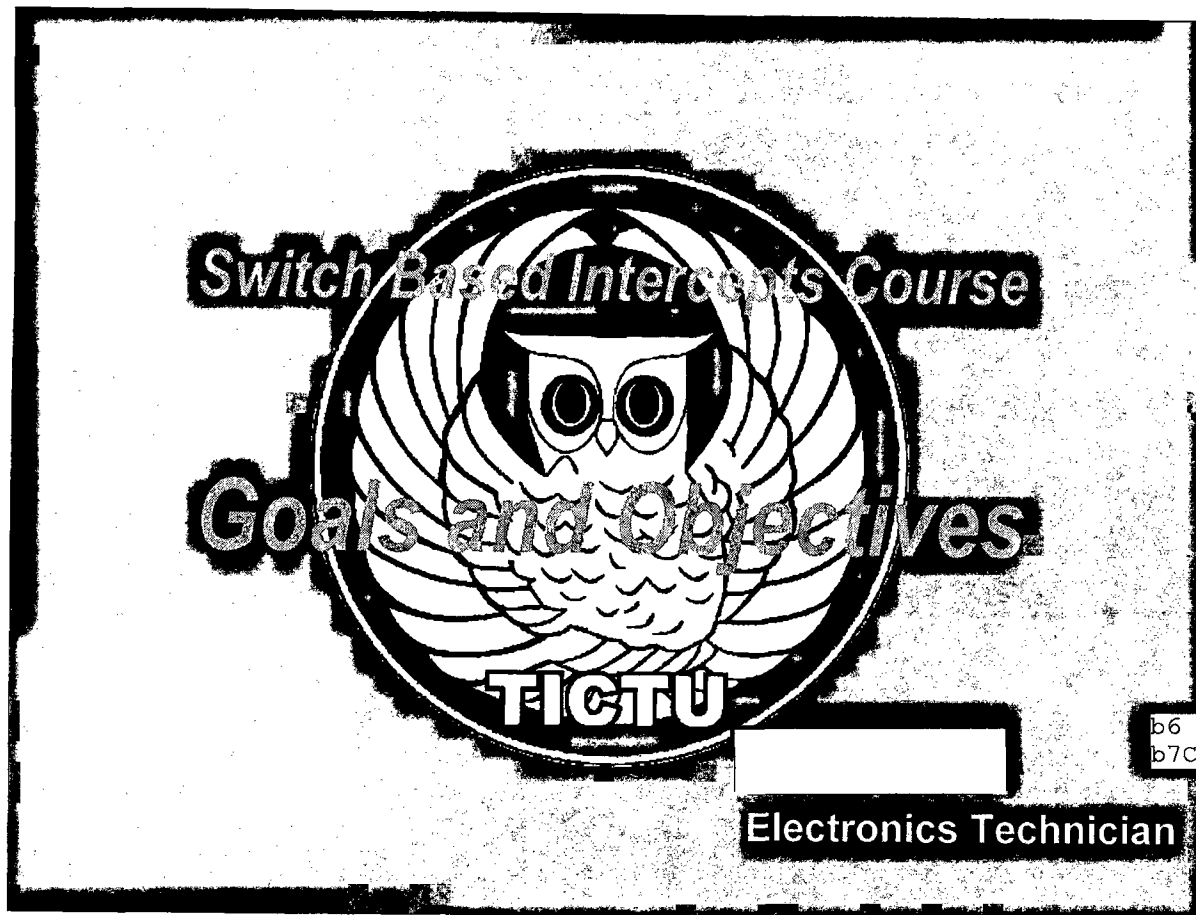


### **Test Issues**

**Server system messages and erroneous sessions (data only)**

**TA Uploads**

**TIU Parser errors with CALEA data**



pg-1

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

## **Purpose**

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The course was designed to educate technically trained agents to implement and maintain switch-based telecommunications intercepts for their field divisions

## **Background**

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- The Telecommunications Access Group is responsible for the development, deployment and support of access for CALEA intercepts
- DCS-3000 is the current interim solution used by the FBI
- The FBI is investigating other options from outside vendors

## ***Course Goals and Objectives***

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- **Educate TTAs on:**

- Technologies utilized, FBI equipment needed, and connection information for service providers

- DCS-3000 application hardware, operating system, and infrastructure needed for implementation and maintenance

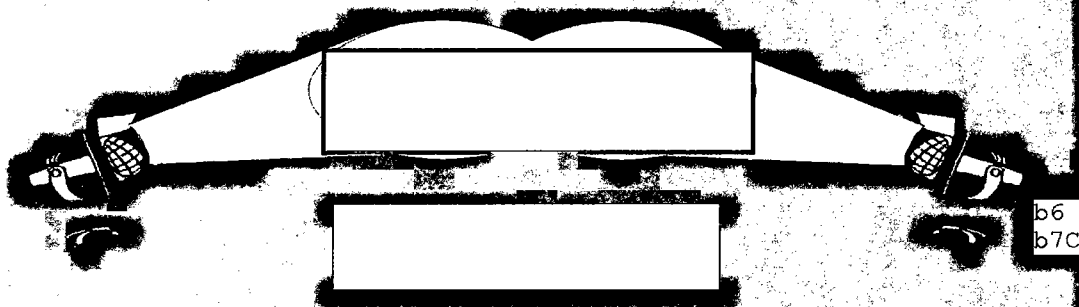
- Current issues affecting ELSUR operations

- **Equip "graduates" to implement and maintain switch based intercepts in their field divisions**



## Switch Based Intercepts Course

Spotlight  
on

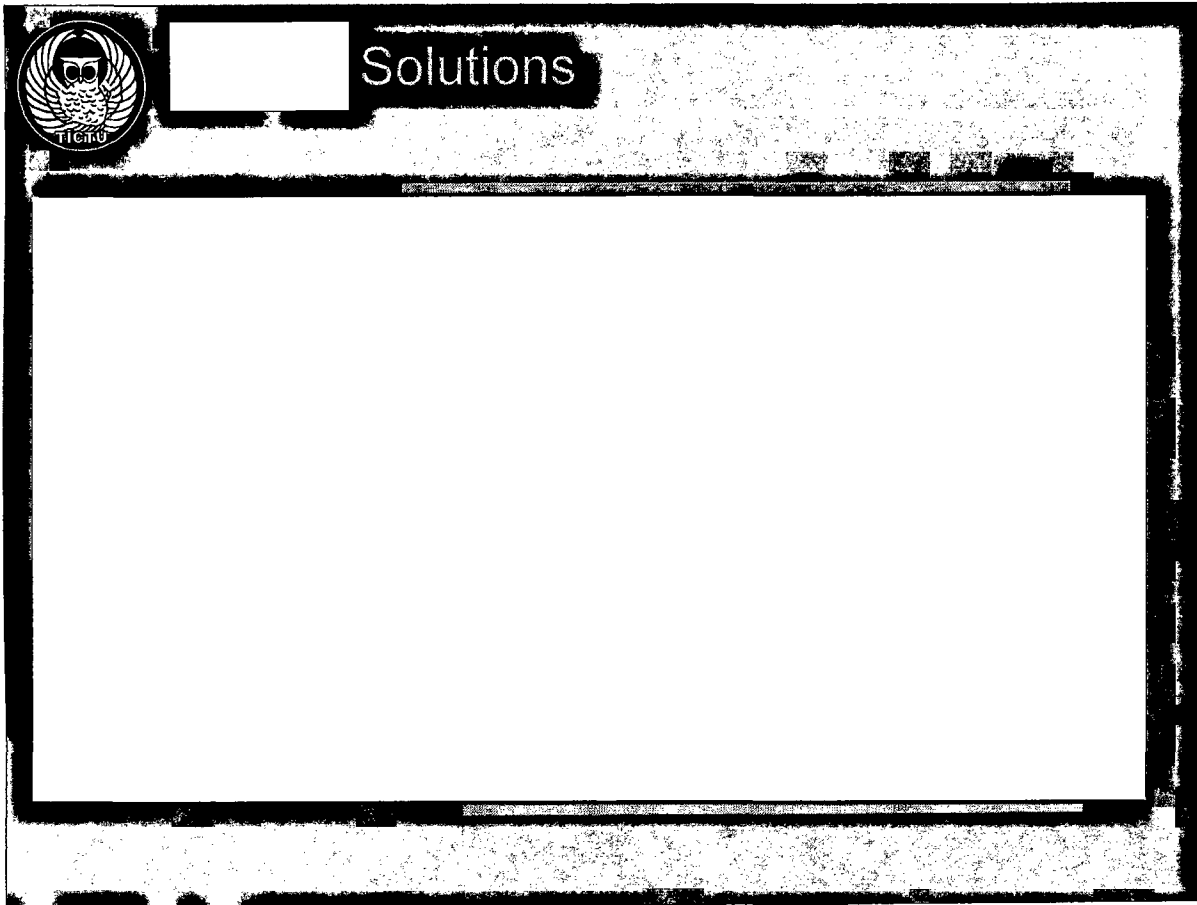


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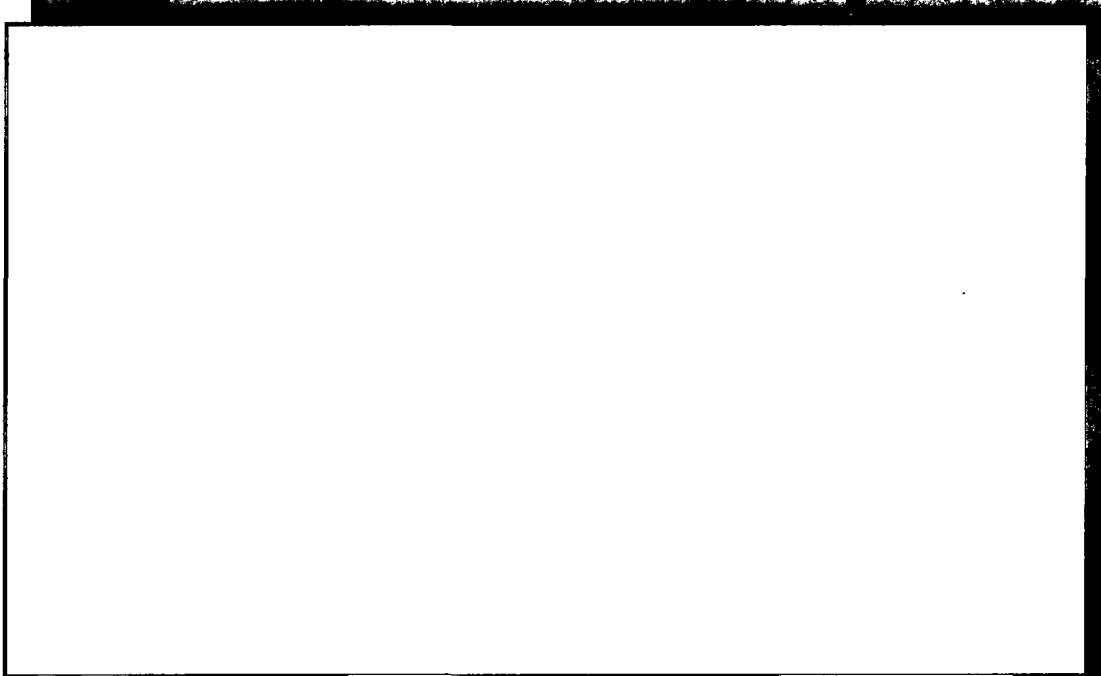
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DATE 05-30-2007 BY 65179dmh/ksr/maj



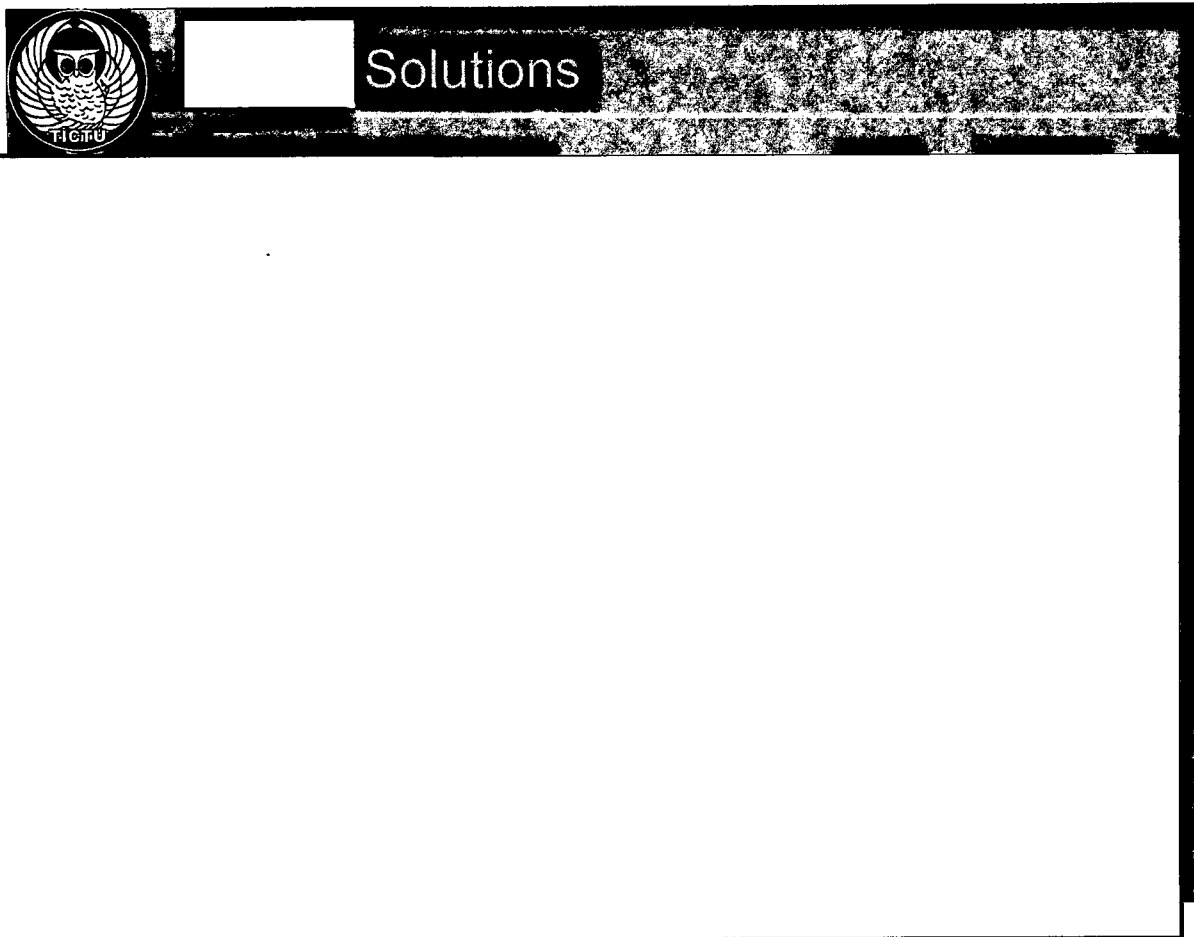




# Solutions



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## Solutions

pg-5

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