(01/26/1998)

FEDERAL BUREAU OF INVESTIGATION

Precedence: PRIORITY **Date:** 03/31/1999

To: Finance **Attn:** [redacted] Rm 6885
[redacted] QT-ERF

Criminal Investigative Laboratory **Attn:** [redacted] Rm 5155
Attn: Mr. McDevitt QT-ERF
[redacted] QT-ERF
QT-ERF
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QT-ERF

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From: Laboratory
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: [redacted]
[redacted]
McDevitt Michael J
[redacted]

Drafted By: [redacted] ehb

Case ID #: 269-HQ-1194267

Title: DIGITAL DELIGHT
TASK ORDER FOR BOOZ-ALLEN & HAMILTON (BAH)

Synopsis: To request that the Finance Division assign BAH a task under GSA's Telecommunications Support Contract 2 (TSC 2), to provide labor and services to support the specification, development, verification, operation, and maintenance of interim electronic surveillance systems for emerging wireless and wireline telecommunications technologies.

Enclosures: FD-369 #900509, Statement of Work

Details: The Communications Assistance to Law Enforcement Act (CALEA) of 1994 sets out telecommunications' common carriers' responsibilities with regard to providing law enforcement agencies with lawful access to communications intended for interception (Title III/Foreign Intelligence Security Act, Pen Register, Trap & Trace). The CALEA Implementation Section (CIS) has responsibility for carrying out the duties imposed on the Attorney General for implementing the legislation. The CIS is currently negotiating with telecommunications industry carriers, manufacturers, and associations in order to facilitate this process. It is anticipated that CALEA compliant interception capabilities will be available within the carriers' systems sometime in the 1999-2001 time frame. Additionally, it is

expected that carrier capabilities to accommodate law enforcement capacity requirements for communications interceptions will be forthcoming in the 2000 time frame.

The Laboratory Division, Electronic Surveillance Technology Section, Telecommunications Intercept and Collection Technology Unit, Telecommunications Access Program (TAP), has responsibility for ensuring that alternatives for conducting electronic communication interceptions within the carriers' networks exist. These alternative solutions are needed to ensure law enforcement interception capability during the interim period when CALEA compliant solutions are not available and as a tactical alternative to CALEA compliant solutions. Also, these solutions serve as a "bridge" to the CALEA compliant solutions and provide the Federal Bureau of Investigation (FBI) with a test bed to evaluate switch/network-based interception capabilities.

Currently, many new digital wireless communications services offering personalized and complex communications services to the public are being introduced in the United States. The concept which these new wireless systems are based upon is called Personal Communication Services (PCS). The objective of PCS is to provide ubiquitous wireless communications coverage with more advanced call and network features than existing cellular radio systems currently provide (e.g. text and voice messaging, Caller Identification, alphanumeric paging, and Internet access). Each PCS service provider is free to implement any of a number of air-interface standards and system architectures within each service area as long as their system complies with Federal Communications Commission rules. Enhanced Specialized Mobile Radio services are similar. Recently, carriers (e.g. [redacted] have begun to offer these services without a capability to effect law enforcement interceptions. As a result, TAP initiated a project entitled DIGITAL DELIGHT to develop, deploy, and support interim interception capability on these complex systems. b2 b7E

In January 1997 and July 1998, the FBI awarded a limited task orders to BAH, under GSA's TSC 2 contract, to develop a custom collection system, called the DCS-3000, which provides for the collection and recording of both call content and call detail information for three PCS switches. The BAH successfully developed intercept and collection capabilities for PCS switches manufactured by [redacted] As a result of the successful work conducted by BAH, the FBI has deployed the DCS-3000 system in more than 34 FBI field divisions and 61 PCS switches throughout the country, and field office demand for the system continues to grow. b2 b7E

To: Finance From: Laboratory
Re: 269-HQ-1194267, 03/31/1999

Initially, the FBI believed the DCS-3000 capability would be a relatively short lived prototype which would quickly be replaced by commercial systems. However, the emergence of satisfactory commercial products has been slow. Further, due to delays in the implementation of CALEA, various parts of the telecommunications industry have been deploying some intermediate level of electronic surveillance capabilities until CALEA is implemented. These intermediate capabilities will likely not be well supported by commercial surveillance products. Thus, TAP has continuing requirements to specify, develop, field, and support interim surveillance systems in order to achieve its mission.

New PCS switches and new upgrades to existing PCS switches are currently being deployed in the United States. For example, Iridium and Omnipoint Communications are deploying the [redacted] switch in their networks. Currently, the FBI does not have any intercept capabilities for this PCS/satellite switch. As a result, the FBI requires additional support from BAH to extend the current DCS-3000 collection system, to specify and develop additional required surveillance products, and to support the scores of systems already deployed. The TAP requests that the Finance Division assign BAH an additional task, under GSA's TSC 2 contract, to provide labor and services to support the specification, development, verification, operation, and maintenance of the existing DCS-3000 system and new interim electronic surveillance systems for emerging PCS systems. b2 b7E

The estimated cost of the task specified in the enclosed Statement of Work is $1,000,000. Funding is available from Budget Item Number VCRP-JM.

STATEMENT OF WORK _____
UNDER TELECOMMUNICATIONS SUPPORT CONTRACT 2

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1.0 INTRODUCTION

This Statement of Work (SOW) is to be performed for the General Services Administration (GSA), Information Resources Management Service, in the National Capital Zone, under Telecommunications Support Contract 2 (TSC 2). The corresponding GSA contract number is [redacted]

1.1 Organization

This SOW is for the United States Department of Justice, Federal Bureau of Investigation (FBI), Washington, D.C.

1.1.1 Identification and Address

U.S. Department of Justice
Federal Bureau of Investigation
Networks Access Development Unit
Electronic Surveillance Technology Section
Engineering Research Facility
Building 27958A
Quantico, VA 22135

1.2 PROJECT BACKGROUND AND OBJECTIVES

1.2.1 Project Background

The mission of the FBI's Telecommunications Intercept and Collection Unit (EST-3) is the development of access and collection technology to perform lawfully authorized electronic surveillance of telecommunications services. Personal Communications Services (PCS) is one type of telecommunications service for which EST-3 must support surveillance and collection. Since no commercial products are available to support this mission, the FBI has developed a custom collection system, called the DCS-3000, that provides for the collection and recording of both call content and call detail information for a variety of PCS switches. The system is deployed and in use in more than thirty-four FBI field divisions.

Initially, the FBI believed that DCS-3000 capability would a relatively short lived prototype which would quickly be replaced by commercial systems. However, the emergence of satisfactory commercial products has been slow. Further, due to delays in the implementation of the Communications Assistance to Law Enforcement Act (CALEA), various parts of the

telecommunications industry have been deploying some intermediate level of electronic surveillance capabilities until CALEA is implemented. These intermediate capabilities will likely not be well supported by commercial surveillance products. Thus, the FBI has continuing requirements to specify, develop, field, and support interim surveillance systems in order to achieve its mission.

1.2.2 Objectives

The FBI requires support to extend the current DCS-3000 collection system and to specify and develop additional required surveillance products.

This SOW defines the tasks required to support the FBI's electronic surveillance needs. The specific objective of the order is to procure the following types of services:

- Analytical support services to support the definition of system requirements for interim solution capabilities and provide liaison with the service providers for technical evaluation of the proposed solutions.
- Design and engineering services to support the design of extensions to existing electronic surveillance systems and the development of new surveillance systems
- Installation, integration, and implementation services to support the development, integration, and test of extensions to existing surveillance systems and the development of new systems
- Operations and maintenance services to support applications software maintenance, documentation, help desk operations, logistics, and field support.

2.0 STATEMENT OF WORK

2.1 Task Description

This is a firm fixed price task.

2.2 Required Services

The contractor shall provide labor and services to support the specification, development, verification, operation and maintenance of interim electronic surveillance systems. Much of the work of EST-3 is driven by the often urgent requirements of cases and other projects that the organization is required to support. As a result, the specific activities the contractor will be required to perform cannot be defined a priori. However, the types of required tasks can be characterized. Typical tasks the contractor will be called upon to perform include:

I. Provide interim solution implementation support to:

A. Develop requirements for new technologies or systems to include the following activities:

1. Define a high level electronic surveillance needs document
2. Liaison with key vendors and service providers to gather technical data
3. Provide in-depth technical assessment of a technology which includes network architectures and features/service
4. Evaluate existing electronic surveillance capabilities for the technology
5. Define detailed requirements documents

B. Evaluate technical solutions proposed by a vendor or a service provider

C. Liaison with vendors and service providers during solution implementation

D. Verify surveillance solutions proposed by vendors or service providers

II. Provide software development support to:

A. Develop new software applications to support new collection requirements.

B. Modify/enhance the existing DCS-3000 system to provide support for the following:

1. New revisions of switch operating software. Frequently, new switch software revisions chance the format and content of detail messages.
2. New communications facilities to support new requirements for data communications between the PCS switch and the collection system or communications between elements of the collection system.
3. New user controls for system configuration and operation.
4. Collection of call detail and content information from a previously unsupported PCS switch type. Addition of a new switch type may entail the development of items described in 1, 2, and 3.

III. Perform software maintenance and troubleshooting to resolve intercept system operational and performance problems identified by EST-3 or FBI field offices.

IV. Develop or enhance user documentation for developed system prototypes and related products.

V. Provide operations, logistics, and field support to include:

A. Provide on-call operational support for fielded systems. This service will be effectively a "help desk" function. The service shall be provided Monday through

interception capabilities will be available within carriers' systems sometime in the 1998-2000 time frame. Additionally, it is expected that carrier capabilities to accommodate law enforcement capacity requirements for communications interceptions will be forthcoming in the 2000 time frame.

The Networks Access Development Unit (NADU), Electronic Surveillance Technology Section, IRD, has responsibility for ensuring that alternatives for conducting electronic communications interceptions within the carriers' networks exist. These alternative solutions are needed to ensure law enforcement interception capability during the interim period when CALEA compliant solutions are not available, and as a tactical alternative to CALEA compliant solutions. Also, these solutions serve as a 'bridge' to the CALEA compliant solutions and provide the FBI with a test bed to evaluate switch/network-based interception capabilities.

Recently, digital wireless communications services offering personalized and complex communications services to the public were introduced in the United States. The concept these new wireless systems are based upon is called Personal Communications Services (PCS). The objective of PCS is to provide ubiquitous wireless communications coverage with more advanced call and network features than existing cellular radio systems currently provide (e.g. text and voice messaging, Caller ID, alphanumeric paging, and Internet access). Each PCS service provider is free to implement any of a number of air-interface standards and system architectures within each service area as long as their system complies with FCC rules. Enhanced Specialized Mobile Radio (ESMR) services are similar. Recently, carriers have begun to offer these services broadly without a capability to effect law enforcement interceptions. As a result, NADU initiated a project entitled DIGITAL DELIGHT to develop, deploy, and support interim interception capability on these complex systems.

In January 1997, the FBI awarded a limited task order to BAH, under GSA's TSC 2 contract, to develop a custom collection system, called the DCS-3000, that provides for the collection and recording of both call content and call detail information for three PCS switches. BAH successfully developed intercept and collection capabilities for PCS switches manufactured by [redacted] As result of the successful work conducted by BAH, the FBI has deployed the DCS-3000 system in more than twenty FBI field offices throughout the country.

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To: Finance From: Information Resources
Re: 269-HQ-1012496, 07/28/1998

Initially, the FBI believed the DCS-3000 capability would be a relatively short lived prototype which would quickly be replaced by commercial systems. However, the emergence of satisfactory commercial products has been slow. Further, due to delays in the implementation of CALEA, various parts of the telecommunications industry have been deploying some intermediate level of electronic surveillance capabilities until CALEA is implemented. These intermediate capabilities will likely not be well supported by commercial surveillance products. Thus, NADU has continuing requirements to specify, develop, field, and support interim surveillance systems in order to achieve its mission.

New PCS switches and new upgrades to existing PCS switches are currently being deployed in the United States. As a result, the FBI requires additional support from BAH to extend the current DCS-3000 collection system and to specify and develop additional required surveillance products. NADU requests the Finance Division to assign BAH an additional task, under GSA's TSC 2 contract, to provide labor and services to support the specification, development, verification, operation and maintenance of the existing DCS-3000 system and new interim electronic surveillance systems for emerging PCS systems.

The estimated cost of the task specified in the enclosed Statement of Work is $700,000. Funding is available from Budget Item Number JV-VCRP.

To: Albany
Re: 269-HQ-1194267

From: Operational Technology
Date: 03/01/2006

Synopsis: To advise of a Telecommunications Intercept and Collection Technology Unit (TICTU) training seminar to be held in Denver, Colorado.

Details: The TICTU will conduct a two-day seminar on switch-based intercept concepts and methods in Denver, Colorado during 06/06-07/2006. The seminar is designed for Technically-Trained Agents (TTAs) and support personnel who routinely use collection equipment supported by TICTU. The seminar will provide training on new DCS-3000 features and updates on many issues related to switch-based electronic surveillance. Additionally, the participants will acquire a current overview of the Communications Assistance for Law Enforcement Act (CALEA) compliant solutions that telecommunication carriers use, and an updated description of the techniques developed by TICTU to provide intercept capabilities for these carriers' solutions.

This training has been coordinated with the Technical Personnel Development Unit and is being held on a regional basis to minimize travel expenses. The ITAR number is [redacted] b2 b7E

The following personnel have been assigned to attend this seminar. Please respond immediately to any changes in attendance.

Field Office	Attendees
Albany	[redacted]
Albuquerque	
Atlanta	
Baltimore	
Boston	
Charlotte	
Cincinnati	
Cleveland	
Denver	***Host Office***
Detroit	[redacted]

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(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: DEADLINE 03/01/2006 **Date:** 01/04/2006

TO: Anchorage
Birmingham
Buffalo
Chicago
Columbia
Dallas
El Paso
Jackson
Jacksonville
Kansas City
Little Rock
Los Angeles
Louisville
Minneapolis
Mobile
New Haven
New Orleans
Oklahoma City
Omaha
Phoenix
Pittsburgh
Richmond
Sacramento
San Diego
San Juan
Seattle
Springfield
WFO

ATTN: [redacted]

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From: Operational Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: SSA [redacted] 703-[redacted]

Approved By: [redacted] KEH
Thomas Marcus C
Clifford Michael Jr
[redacted] KLB

Drafted By: [redacted] :bic

Case ID #: 269-HQ-1194267 -413

Title: DCS-3000

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 06-04-2007 BY 65179 DMH/TAM/KSR/JB

[redacted]

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UPLOADED
JAN 10 2006
S.D.J

To: Albuquerque
Re: 269-HQ-1194267

From: Operational Technology
Date: 01/04/2006

Synopsis: To advise of a Telecommunications Intercept and Collection Technology Unit (TICTU) training seminar to be held in San Diego, California.

Details: The TICTU will conduct a two-day seminar on switch-based intercept concepts and methods in San Diego, California during 04/12/2006-04/13/2006. The seminar is designed for Technically-Trained Agents (TTAs) and support personnel who routinely use collection equipment supported by TICTU. The seminar will provide training on new DCS-3000 features and updates on many issues related to switch-based electronic surveillance. Additionally, the participants will acquire a current overview of the Communications Assistance for Law Enforcement Act (CALEA) compliant solutions that telecommunication carriers use, and an updated description of the techniques developed by TICTU to provide intercept capabilities for these carriers' solutions.

This training has been coordinated with the Technical Personnel Development Unit and is being held on a regional basis to minimize travel expenses. The ITAR number is [redacted]

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The following personnel have been assigned to attend this seminar. Please respond immediately to any changes in attendance.

Field Office	Attendees
Anchorage	[redacted]
Birmingham	
Buffalo	
Chicago	
Columbia	
Dallas	
El Paso	
Jackson	
Jacksonville	
Kansas City	

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[redacted]

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OTHER out of scope

#	Page/Para	Comment	Significance
25.	[redacted]		
26.	[redacted]	Is not all FISA data classified and if so, why is DCS-3000 processing this data? Comments: This needs to be explained to SecD and possibly put into the SSP as well	Security concern
27.	[redacted]		
28.	[redacted]		
29.	[redacted] This needs to be linked to section 1.1.3		

OTHER out of scope

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(S) [redacted]

(S) (U) There was unanimous agreement among representatives from [redacted] that metadata is the principal information needed at the corporate level for analytical applications. In addition, the current work being conducted by each organization to improve collection capabilities is focused on intercepting and collecting metadata from telephony and IP-based intercept operations. b1

(U) SSA [redacted] EE [redacted], and EE [redacted] provided the group with an overview of the FBI's current collection capabilities for telephony and IP intercepts. SSA [redacted] briefly discussed the function of the Data Intercept Technology Unit. EE [redacted] discussed the operational functions of the DCS-3000, DCS-5000, and DCS-6000 systems and provided an update on recent telephony intercept capabilities developed by the FBI. EE [redacted] provided a brief overview of the Elsur Data Management System (EDMS) and further explained the FBI's business processes and data flows for intercept collections. b6 b7C

CC:

[redacted] QT-ERF
[redacted] QT-ERF
[redacted] QT-ERF
[redacted] QT-ERF
[redacted] QT-ERF
[redacted] QT-ERF
[redacted] QT-ERF
[redacted] QT-ERF
[redacted] QT-ERF

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(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 05/11/2006

To: Finance **Attn:** [redacted]
ERF-QT (Enc)

From: Operational Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: [redacted] b6 b7C
Thomas Marcus C
Clifford Michael Jr
[redacted]

Drafted By: [redacted] bic

Case ID #: 268-HQ-1045581 b2 b7E

Title: DCS-3000

Synopsis: Purchase of [redacted] Firewall to support DCS-3000, DCS-5000, and DCS-6000 systems.

Enclosure(s): FD-369, #E003245 in the amount of $61,200; IT Acquisition Form; and Quotes from (1) CDWG, (2) Lyme Computer Systems, Incorporated and (3) World Wide Technology, Incorporated. COTS number assigned is 32568/06.

Details: The Telecommunications Intercept and Collection Technology Unit (TICTU) is the primary development, deployment, and support unit for switch-based telecommunications intercepts. The TICTU supports criminal, national security, and foreign counterintelligence investigations utilizing telecommunications intercept techniques. TICTU is responsible for providing technical expertise and equipment to implement all Communications Assistance for Law Enforcement Act (CALEA)-based intercepts. To perform the operations involving Title III and Title 50 court ordered surveillance, the TICTU must be able to provide support in a timely manner.

[redacted]

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To: Finance From: Operational Technology
Re: 268-HQ-1045581, 05/11/2006

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Attached is Requisition #E003245 dated 05/09/2006 in the amount of $61,200 with COTS number 32568/06 for the procurement of [redacted] Firewall to support DCS-3000, DCS-5000, and DCS-6000 systems. The [redacted] Firewalls are needed to build out specific applications with the system and ensure connectivity. Funding in the amount of $61,200 is available from Subobject Classification 573109, Budget Item JM.

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[redacted]

(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 05/2/2006

To: Operational Technology **Attn:** [redacted]

Security **Attn:** [redacted]

From: Security
Information Assurance/Accreditation/SPY-B F-501
Contact: [redacted] 202-[redacted] b6 b7C

Approved By: [redacted]

Drafted By: [redacted] :mlm

Case ID #: 319U-HQ-1487677-SECD-275

Title: IT SYSTEMS SECURITY RISK ANALYSES
INFORMATION ASSURANCE SECTION (IAS)
ACCREDITATION UNIT (AU)
DIGITAL COLLECTION SYSTEM 3000 (DCS-3000)
ACCREDITATION DECISION:
SECURITY CHARACTERISTIC AND TIER LEVEL
DESIGNATION FOR DCS-3000

Synopsis: Designate the DCS-3000 Tier Level, Mode of Operation, determine the Confidentiality, Integrity, Availability Levels, Boundary description, and name the key Certification and Accreditation Team Members.

Administrative: DCS-3000 Accreditation Boundary Diagram, dated 05/1/2006.

Details: As a result of correspondence and meetings with the Accreditation Representative, Information System Security Manager, Information System Security Officer, Certification Representative, the DCS-3000 Program Manager and System

The DCS-3000 application suite was developed to assist Law Enforcement Agencies (LEA) with collecting and processing data for court-ordered Electronic Surveillance (ELSUR) operations. The DCS-3000 collects J-STD-25 data from the Telecommunications Service Provider (TSP) and stores it at the LEA site.

The DCS-3000 application suite consists of five (5) component applications residing on one or more workstations. The components of the DCS suite used to support a particular requirement depend upon the type of surveillance to be conducted, the switch providing the data, the telecommunications service provider, and availability of equipment at the field office.

The Certification and Accreditation Team Members are:

System Owner: [redacted]
Information System Security Officer: [redacted]
System Administrator:
Information System Security Manager:
Certification Representative:
Accreditation Representative:

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To: Operational Technology From: Security
Re: 319U-HQ-1487677-SECD, 05/2/2006

LEAD(s):

Set Lead 1: (Info)

OPERATIONAL TECHNOLOGY

AT QUANTICO, VA

Notify the ISSM if there are any changes to DCS-3000 that could impact its designation of the Tier Level, Levels of Concern, Mode of Operation, and accreditation boundary.

Set Lead 2: (Info)

SECURITY

AT WASHINGTON, DC

For information only.

CC: [redacted]

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(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 11/17/2005

To: Finance **Attn:** [redacted]
ERF-QT (Enc)

Criminal Investigative **Attn:** [redacted] Rm 5155
(Enc)

From: Operational Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted] b6 b7C

Approved By: [redacted]
Thomas Marcus C
Clifford Michael Jr
[redacted]

Drafted By: [redacted] :bic

Case ID #: 268-HQ-1045581

Title: DCS-5000

Synopsis: Purchase of Cisco routers, cables, and associated components to support DCS-5000.

Enclosure(s): FD-369, Requisition Number E002214 in the amount of $285,650.20; Quotes from GTS, CDWG, and IBM; Acquisition Form and Acquisition Planning Form.

Details: The Telecommunications Intercept and Collection Technology Unit (TICTU) is the primary development, deployment, and support unit for switch-based telecommunications intercepts. The TICTU supports criminal, national security, and foreign counterintelligence investigations utilizing telecommunications intercept techniques. TICTU is responsible for providing technical expertise and equipment to implement all Communications Assistance for Law Enforcement Act (CALEA-based intercepts. To perform the operations involving Title III and Title 50 court ordered surveillance, the TICTU must be able to provide support in a timely manner.

Attached is Requisition Number E002214 dated 11/17/2005 in the amount of $285,650.20 for the procurement of Cisco [redacted]

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routers, cables, and associated components to support DCS-3000, DCS-5000 and DCS-6000 systems. The Cisco routers, cables, and components are needed to build out specific applications with the system and ensure connectivity.

Funding in the amount of $285,650.20 is available from Subobject Classification 573109, Budget Item JM.

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(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

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Precedence: ROUTINE **Date:** 10/25/2005

To: Finance **Attn:** [redacted] ERF, (Enc)
[redacted] FMU, Bldg 15, (Enc)

Counterintelligence **Attn:** [redacted] Rm 1B045
[redacted] Rm 1B045 (Enc)
[redacted] Rm 11533 (Enc)

Criminal Investigative **Attn:** [redacted] Rm 5515

From: Operational Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: [redacted]
Thomas Marcus C
Clifford Michael Jr
[redacted]

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Drafted By: [redacted] bic

Case ID #: 268-HQ-1045581

Title: DCS-3000

Synopsis: The Engineering Contracts Unit (ECU) is requesting to exercise the first option year with Booz/Allen/Hamilton to provide labor and services to continue to support the specification, development, verification, operation, and maintenance of electronic surveillance systems for emerging wireless and wireline telecommunications technologies.

Enclosure(s): FD-369, **#E002040** in the amount of $1,900,000.

Details: The Telecommunications Intercept and Collection Technology Unit (TICTU) is responsible for the development, deployment, and support of access and collection technologies to perform lawfully authorized electronic surveillance of telecommunications services. The TICTU is engaged in a number of rapidly developing and changing telecommunications activities and projects that require program planning, requirements development, development, deployment, support of collection systems, and [redacted]

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industry liaison and coordination support. In order to accomplish its mission, the TICTU requires the augmentation of its current capabilities with additional collection system software development, wireless communications technical expertise, and telecommunications industry expertise.

The DCS-3000 system is a custom system developed, deployed, and supported by the TICTU. The DCS-3000 provides access and collection of both call detail information (i.e., pen-register and trap/trace) and call content for a variety of telecommunications switches. The DCS-3000 has recently been modified to comply with new Counterintelligence Division (CD) security requirements to meet certification and accreditation. These modification are integral to maintaining security and timely pen register and voice collections. New technologies that must be addressed include Voice Over Internet Protocol, packet-mode telephony, General Packet Radio Service, and nationwide [redacted] services from [redacted] b2 b7E

Booz/Allen/Hamilton is currently supporting many of the TICTU's activities and is the only company with the unique mix of qualifications required to adequately address the breadth and depth of the TICTU program needs. Booz/Allen/Hamilton supported the development of the current DCS-3000 collection system. Most recently Booz/Allen/Hamilton has modified the DCS-3000 software suite to accommodate one way push scenario to enable Title 50 systems to accept Communications Assistance for Law Enforcement Act (CALEA) data into Foreign Intelligence Surveillance Act Collection (FISA) systems. Booz/Allen/Hamilton also has technical expertise in the field of off-air electronic surveillance of wireless communications systems.

The TICTU requests the Finance Division exercise the first option year of the Booz/Allen/Hamilton contract to provide support to extend the current DCS-3000 system and to specify and develop additional capabilities for the system.

 b2 b7E [redacted]

(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 05/13/2005

To: Finance **Attn:** [redacted]
Room 8504 (Enc)

Criminal Investigative **Attn:** [redacted]
Room 5155

From: Operational Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: [redacted] b6 b7C
Thomas Marcus C
Clifford Michael Jr
[redacted]

Drafted By: [redacted] lng

Case ID #: 269-HQ-1194267

Title: DCS-3000

Synopsis: Approve the purchase of 50 each [redacted] and 50 each [redacted] converter to support the DCS-3000 program. b2 b7E

Enclosure(s): FD-369, #E001607 in the amount of $87,200.88 and quote from CDWG, IT Acquisition Form, Mission Critical Needs Statement.

Details: The Telecommunications Intercept and Collection Technology Unit (TICTU) is the primary development, deployment, and support unit for switch-based telecommunications intercepts. The TICTU supports criminal, national security, and foreign counterintelligence investigations utilizing telecommunications intercept techniques. To perform the operations involving Title III, Title 50 court ordered surveillance, and the DCS-3000 program, TICTU must be able to provide support in a timely manner.

Attached is requisition #E001607 in the amount of $87,200.88 for the procurement of 50 each [redacted] and 50 each [redacted] converter. The systems will be modified to [redacted]

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HEREIN IS UNCLASSIFIED
DATE 06-04-2007 BY 65179 DMH/TAM/KSR/JB

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meet the programs specifications. As the units are completed, the systems will be deployed to the field offices as needed.

The requested equipment is required to support switch-based intercepts for national security investigations. This equipment will be used to access and intercept call content data from Commuications Assistance for Law Enforcement Act-compliant switches. The equipment will be integrated with the FBI's enterprise collections system (DSC-3000) to support collections.

Funding in the amount of $87,200.88 is available from Subobject Classifications 573109 and 552580, Budget Item JM.

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(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 05/13/2005

To: Finance **Attn:** [redacted]
Room 8504 (Enc)

Criminal Investigative **Attn:** [redacted]
Room 5155

From: Operational Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

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Approved By: [redacted]
Thomas Marcus C
Clifford Michael Jr
[redacted]

Drafted By: [redacted] lng

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b7E

Case ID #: 269-HQ-1194267

Title: DCS-3000

Synopsis: Approve the purchase of 100 each [redacted] everything modems to support the DCS-3000 program.

Enclosure(s): FD-369, #E001606 in the amount of $22,781.00 and quotes from [redacted] Mission Critical Needs Statement.

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Details: The Telecommunications Intercept and Collection Technology Unit (TICTU) is the primary development, deployment, and support unit for switch-based telecommunications intercepts. The TICTU supports criminal, national security, and foreign counterintelligence investigations utilizing telecommunications intercept techniques. To perform the operations involving Title III, Title 50 court ordered surveillance, and the DCS-5000 program, TICTU must be able to provide support in a timely manner.

Attached is requisition #E001606, in the amount of $22,781.00 for the procurement of 100 each [redacted] everything modems.

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[redacted]

b2
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To: Finance From: Operational Technology
Re: 269-HQ-1194267, 05/13/2005

The requested equipment is required to support switch-based intercepts for national security investigations. This equipment will be used to egress Communications Assistance for Law Enforcement Act (CALEA) data in support of electronic surveillance (ELSUR) operations. The equipment will be integrated with the FBI's DCS-3000 systems.

Funding in the amount of $22,781.00.00 is available from Subobject Classification 573109, Budget Item JM.

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[redacted]

(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 05/05/2005

To: Finance **Attn:** [redacted]
QT-ERF (Enc)

Criminal Investigative **Attn:** [redacted]
Room 5155

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From: Operational Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: [redacted]
Thomas Marcus C
Clifford Michael Jr

Drafted By: [redacted] lng

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Case ID #: 269-HQ-1194267

Title: DCS-3000

Synopsis: Approve the purchase of 43 each [redacted] to support the DCS-3000 program.

Enclosure(s): FD-369, #E001555 in the amount of $75,449.52 and quotes from Graybar, Kipper Tool Company and Anixter.

Details: The Telecommunications Intercept and Collection Technology Unit (TICTU) is the primary development, deployment, and support unit for switch-based telecommunications intercepts. The TICTU supports criminal, national security, and foreign counterintelligence investigations utilizing telecommunications intercept techniques. To perform the operations involving Title III, Title 50 court ordered surveillance, and the DCS-3000 program, TICTU must be able to provide support in a timely manner.

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Attached is requisition #E001555, in the amount of $75,449.52 for the procurement of 43 each [redacted]

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[redacted]

(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: DEADLINE 03/15/2005 **Date:** 02/16/2005

To: Albuquerque
Atlanta
Birmingham
Charlotte
Columbia
Dallas
Denver
El Paso
Honolulu
Houston
Jackson
Jacksonville
Knoxville
Las Vegas
Little Rock
Los Angeles
Memphis
Miami
Mobile
New Orleans
Oklahoma City
Phoenix
Sacramento
San Antonio
San Diego
San Francisco
San Juan
Tampa

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Attn: [redacted]

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: [redacted]
Clifford Michael Jr

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b7C

Drafted By: [redacted] :bic

Case ID #: 269-HQ-1194267

Title: DCS-3000

[redacted]

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DATE 06-04-2007 BY 65179 DMH/TAM/KSR/JB

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To: Albuquerque From: Investigative Technology
Re: 269-HQ-1194267

Synopsis: To advise of a Telecommunications Intercept and Collection Technology Unit(TICTU)training seminar to be held in Phoenix, Arizona.

Details: The TICTU will conduct a three-day seminar on switch-based intercept concepts and methods in Phoenix, Arizona during 04/19/2005-04/21/2005. The seminar is designed for Technically-Trained Agents (TTAs) and support personnel who routinely use collection equipment supported by TICTU. The seminar will provide training on new DCS-3000 features and updates on many issues related to switch-based electronic surveillance. Additionally, the participants will acquire a current overview of the Communications Assistance for Law Enforcement Act (CALEA) compliant solutions that telecommunication carriers use, and an updated description of the techniques developed by TICTU to provide intercept capabilities for these carriers' solutions.

This training has been coordinated with the Technical Personnel Development Unit and is being held on a regional basis to minimize travel expenses.

Based on TICTU experience working with the field offices, it would be most beneficial for the following personnel to attend the seminar:

Field Office	Attendees
Albuquerque	
Atlanta	
Birmingham	
Charlotte	
Columbia	
Dallas	
Denver	
El Paso	
Honolulu	
Houston	

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(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 10/25/2004

To: Finance **Attn:** [redacted] Newington-Annex, (Enc)
[redacted] Newington-Annex, (Enc)

Counterintelligence **Attn:** [redacted] Rm 1B045 (Enc)
[redacted] Rm 1B045 (Enc)
[redacted] Rm 11533 (Enc)

Criminal Investigative **Attn:** [redacted] Rm 5515 (Enc)

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: [redacted]
Thomas Marcus C
Clifford Michael Jr
[redacted]

Drafted By: [redacted] bic

Case ID #: 268-HQ-1045581

Title: DCS-5000

Synopsis: The Engineering Contracts Unit (ECU) is requested to establish a new contract with Booz Allen Hamilton for one (1) base year with four (4) option years, to be funded yearly. The contract will provide labor and services to continue support of the specification, development, verification, operation, and maintenance of electronic surveillance systems for emerging wireless and wireline telecommunications technologies.

Enclosure(s): FD-369, #E000718 in the amount of $2,100,000 and Sole Source Justification.

Details: The Telecommunications Intercept and Collection Technology Unit (TICTU) is responsible for the development, deployment, and support of access and collection technologies to perform lawfully authorized electronic surveillance of telecommunication services. The TICTU is engaged in a number of [redacted]

rapidly developing and changing telecommunications activities and projects that require program planning, requirements development, deployment, support of collection systems, development, and industry liaison and coordination support. In order to accomplish its mission, the TICTU requires the augmentation of its current capabilities with additional collection systems software development, wireless communications technical expertise, and telecommunications industry expertise.

The DCS-3000 is a custom system developed, deployed, and supported by the TICTU. The DCS-3000 provides access and collection of both call detail information (i.e., pen-register and trap/trace) and call content for a variety of telecommunications switches. The DCS-3000 has recently been modified to comply with new Counterintelligence Division (CD) security requirements to meet certification and accreditation. These modifications are integral to maintaining security and timely pen register and voice collections. New technologies that must be addressed include Voice Over Internet Protocol, packet-mode telephony, General Packet Radio Service, and nationwide push-to-talk wireless services from [redacted]

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Booz Allen Hamilton is currently supporting many of TICTU's activities and is the only company with the unique mix of qualifications required to adequately address the breadth and depth of the TICTU program needs. Booz Allen Hamilton supported the development of the current DCS-3000 collection system. Most recently Booz Allen Hamilton has modified the DCS-3000 software suite to accommodate one way push scenario to enable Title 50 systems to accept CALEA data into Foreign Intelligence Surveillance Act (FISA) collection systems.

The TICTU requests the Finance Division to establish a new contract with Booz Allen Hamilton for one (1) year, with four (4) option years, to be funded yearly. The contract will provide support to extend the current DCS-3000 system and to specify and develop additional capabilities for the system.

Funding in the amount of $2,100,000 is available for the contract specified. Funding is available as follows:

[redacted]

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(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: PRIORITY **Date:** 04/26/2004

To: Investigative Technology **Attn:** [redacted] QT-ERF

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

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Approved By: Clifford Michael Jr
[redacted]

Drafted By: [redacted] bic

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Case ID #: 269-HQ-1194267

Title: DCS-3000

Synopsis: The Telecommunications Intercept and Collection Technology Unit (TICTU) requests the technical assistance of the Cryptographic and Electronic Analysis Unit (CEAU) to develop a software-based Enhanced Variable Rate Code (EVRC) decoder for [redacted] service.

Details: The TICTU is currently working with [redacted] to develop an interim intercept and collection capability for [redacted] service. The interim solution proposed by [redacted] will intercept audio and signaling data from their packet data network and deliver this information to the FBI in its native digital packet data format. [redacted] has provided the TICTU with sufficient technical documentation to decode the signaling information but cannot directly assist the FBI with decoding the audio packet data. The algorithm used by [redacted] to digitally encode and decode the audio, called EVRC, is not property of [redacted] Qualcomm Incorporated (Qualcomm) owns the intellectual property rights to this algorithm.

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[redacted] is currently negotiating an unlimited right to use agreement with Qualcomm that will grant the FBI and other law enforcement agencies the right to develop and use software to decode intercepted EVRC audio packets.

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The TICTU requests the CEAU to assist in the development of a software-based decoder for the EVRC algorithm. [redacted] has provided the TICTU with sample intercept audio. The TICTU will provide this sample data and any other

[redacted]

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FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 04/19/2004

To: Finance **Attn:** [redacted] Rm 6032 (Enc)
[redacted] Rm 6823 (Enc)
[redacted] Chantilly (Enc)

Criminal Investigative **Attn:** [redacted] Rm 5155
Information Resources **Attn:** [redacted] Rm 6421 (Enc)

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted] b6 b7C

Approved By: [redacted]
Thomas Marcus C
Clifford Michael Jr
[redacted]

Drafted By: [redacted] :bic

Case ID #: 269-HQ-1436080 b2 b7E

Title: DIGITAL COLLECTION SYSTEMS NETWORK (DCSN)

Synopsis: The Finance Division is request to provide continued funding for the DCSNET to [redacted] under the GSA FTS-2001 contract.

Enclosure(s): FD-369, #0152902 in the amount of $250,000.

Details: The Telecommunications Intercept and Collection Technology Unit (TICTU) is responsible for the development, deployment, and support of access and collection technology to perform lawfully authorized electronic surveillance (ELSUR) of telecommunications services.

The DCS-3000 and DCS-5000 systems provide access and collection of both call detail information (i.e., pen-register and trap/trace) and call content for a variety of telecommunication switches. To deliver the ELSUR data from the service providers to the collection systems requires a reliable, scalable network. The DCSNET provides this connectivity.

The TICTU request that $250,000 be allocated to DCSNET from Budget Item JM.

[redacted]

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(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 11/19/2003

To: Finance **Attn:** [redacted] Rm 6032 (Enc)
[redacted] Rm 6823 (Enc)
[redacted] Chantilly (Enc)
Criminal Investigative [redacted] Rm 5155
Information Resources [redacted] Rm 6421 (Enc)

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted], 703-[redacted]

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Approved By: Thomas Marcus C
Clifford Michael Jr
[redacted]

Drafted By: [redacted]:ehb

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Case ID #: 269-HQ-1436080

Title: DIGITAL COLLECTION SYSTEMS NETWORK (DCSNET)

Synopsis: The Finance Division is requested to provide continued funding for the DCSNET to [redacted] under the GSA FTS-2001 contract.

Enclosure(s): FD-369, #093998 in the amount of $500,000.

Details: The Telecommunications Intercept and Collection Technology Unit (TICTU) is responsible for the development, deployment, and support of access and collection technology to perform lawfully authorized electronic surveillance (ELSUR) of telecommunications services.

The DCS-3000 and DCS-5000 systems provide access and collection of both call detail information (i.e., pen-register and trap/trace) and call content for a variety of telecommunications switches. To deliver the ELSUR data from the service providers to the collection systems require a reliable, scalable network. The DCSNET provides this connectivity.

The TICTU requests that $500,000 be allocated to DCSNET from Budget Item JM, Subobject Classification 552580.

[redacted]

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(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** [redacted]

To: Investigative Technology

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: Clifford Michael Jr [redacted] b6 b7C

Drafted By: [redacted] :pmm

Case ID #: 269-HQ-1194267

Title: DCS-3000 b6 b7C

Synopsis: To report travel to Waynesboro, Virginia.

Details: On 05/20/2003, Electronics Technicians (ETs) [redacted] traveled to Waynesboro, Virginia to install CALEA egress equipment. An [redacted] pad was connected to the service providers [redacted] switch . The pad's first port was then connected to a laptop to buffer the Call Data Channel (CDC) until the Richmond Field Office (RHFO) called in and requested the data. The equipment was hand carried to the switch location. It included : b2 b7E

[redacted] b2 b7E

ETs [redacted] were assisted by Technically Trained Agent (TTA) [redacted] of the RHFO. Equipment transfer paperwork was returned to [redacted] with TTA [redacted] signature. b6 b7C

CC: [redacted] QT-ERF
QT-ERF
QT-ERF
QT-ERF
QT-ERF

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(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 09/29/2003

To: Investigative Technology

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: Clifford Michael Jr [redacted] b6 b7C

Drafted By: [redacted] :pmm

Case ID #: 269-HQ-1194267

Title: DCS-3000

Synopsis: To report travel to Denver, Colorado.

Details: On 08/26 - 28/2003, Electronics Technician (ET) [redacted] and Electronics Engineer (EE) [redacted] b6 b7C traveled to Denver, Colorado to install CALEA egress equipment. New equipment was installed to connect the Denver Field Office (DNFO) and the taskforce offsite. Two new Cisco 1760 routers with encryption were installed to secure the network. A new computer was installed to push Call Data Channel (CDC) to the voice box network located in the taskforce workspace. The equipment shipped to the DNFO included:

[redacted] b2 b7E

ET [redacted] and EE [redacted] were assisted by Technical Advisor (TA) [redacted] of the DNFO. All proper paperwork was provided to [redacted]

CC: [redacted]
QT-ERF b6
QT-ERF b7C
QT-ERF
QT-ERF
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[redacted] b2 b7E

(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 09/26/2003

To: Investigative Technology

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: Clifford Michael Jr [redacted] b6 b7C

Drafted By: [redacted] pmm

Case ID #: 269-HQ-1194267

Title: DCS-3000

Synopsis: To report travel to Dallas, Texas.

Details: On 06/11 - 13/2003, Electronics Technician (ET) [redacted] and Electronics Engineer (EE) [redacted] traveled to Dallas, Texas to install CALEA egress equipment. A new Cisco 2621 router was installed to interface with the service providers equipment. A new Compaq computer running [redacted] was installed to connect to the many switching modules at the service provider. The equipment shipped to the Dallas Field Office (DLFO) included: b6 b7C

[redacted] b2 b7E

ET [redacted] and EE [redacted] were assisted by Technically Trained Agent (TTA) [redacted] of the DLFO. All proper paperwork was provided to [redacted]

CC: [redacted] b6 b7C
QT-ERF
QT-ERF
QT-ERF
QT-ERF
QT-ERF

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For Official Use Only

June 13, 2003

To: [redacted]
HQ Information Resources Manager

Subject: INFORMATION TECHNOLOGY (IT) MATTER
NON-IT WAIVER

Purpose: This request for a Non-IT Waiver is for the acquisition of systems and related support for the Telecommunications Intercept and Collection Technology Unit (TICTU).

Background: The TICTU is responsible for the development, deployment, and support of access and collection technologies to perform lawfully authorized electronic surveillance (ELSUR) of telecommunications services. The TICTU is engaged in a number of rapidly developing and changing telecommunications activities and projects that require program planning, requirements development, development, deployment, and support of collections systems, and industry liaison and coordination support. In order to accomplish its mission, the TICTU requires the augmentation of its current capabilities with additional collection system software development, wireless communications technical expertise, and telecommunications industry expertise.

The DCS-3000 system is a custom system developed, deployed and supported by the TICTU. The DCS-3000 provides access and collection of both call detail information (i.e. pen-register and trap/trace) and call content for a variety of telecommunications switches. The DCS-3000 was believed to be a short-lived prototype system that would be replaced with commercial systems; however, the emergence of commercial systems with adequate CALEA capabilities has been slow. Further, due to delays in the implementation of CALEA, various parts of the telecommunications industry have deployed some intermediate level of ELSUR capabilities. These intermediate capabilities will not likely be well supported by commercial surveillance products. Thus, the TICTU has a continuing requirement to specify, develop, field, and support surveillance systems in order to achieve its mission.

The TICTU is also responsible for the research, development, and deployment of off-air ELSUR (interception, identification, and direction-finding) capabilities for advanced wireless communications systems. The FBI has been successful with capturing wireless target phone numbers and locations in real time, with techniques and technologies developed by the TICTU. However, the rapid progression of wireless telecommunication technologies and the increasing use of "over-the-air" encryption by wireless service providers are drastically increasing the

complexities of off-air ELSUR.

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The TICTU must develop systems to integrate switch-based ELSUR product with off-air ELSUR technology to create an efficient and effective technique to identify and locate targeted wireless telephones. The DCS-3000 system is used for all wireless switch-based intercepts and can provide real-time cell-site, pen-register, and trap/trace information that can and should be used to assist in off-air identification and location operations. This initiative requires significant effort for the research, specification, development, deployment, and support of new off-air ELSUR technologies and integration of these new systems with the FBI's existing enterprise collection systems.

Booz/Allen/Hamilton is currently supporting many of the TICTU's activities and is the only company with the unique mix of qualifications required to adequately address the breadth and depth of the TICTU program needs. Booz/Allen/Hamilton supported the development of the current DCS 3000 collection system and other related CALEA test platforms and has supported the TICTU's CALEA operational needs since 1997. Booz/Allen/Hamilton also has technical expertise in the field of off-air ELSUR of wireless communications systems.

Non-IT Waiver Request: The ELSUR collection systems, tools, computers, and communications capabilities used or developed by the TICTU do not attach to FBI IT networks and were never intended for incorporation within the TRILOGY system.

The TICTU wishes to continue to minimize the administrative and cost burdens in the contracting of scientific, engineering, and technical services by acquiring staff resources through multiple awards to GSA suppliers. The same scientific, communications, and computer based technical skills found in these IT companies can be directly applied to TICTU's critical mission of developing and deploying ELSUR capabilities.

The primary function of the required services is not traditional IT and it is recommended that these services be determined to be Non-IT for procurement purposes.

STATEMENT OF WORK
UNDER GSA CONTRACT NUMBER GS-09-K99BHD0002

1.0 INTRODUCTION

This Statement of Work (SOW) is to be performed under General Services Administration (GSA) contract number [redacted] b2 b7E

1.1 Organization

This SOW is for the United States Department of Justice, Federal Bureau of Investigation (FBI), Washington D.C.

1.1.1 Identification and Address

U.S. Department of Justice
Federal Bureau of Investigation
Telecommunications Intercept and Collection Technology Unit
Electronic Surveillance Technology Section
Engineering Research Facility
Building 27958A
Quantico, VA 22135

1.2 Mission

The mission of the FBI's Telecommunications Intercept and Collection Technology Unit (TICTU) is the development, deployment, and support of access and collection technology to perform lawfully authorized electronic surveillance (ELSUR) of telecommunications services. TICTU supports a broad range of operational investigative needs of the FBI. This support focuses on national security and criminal investigative requirements for Title III, Title 50, pen-register, and trap and trace interceptions. TICTU is responsible for ensuring capabilities exist to tactically intercept and collect lawfully authorized electronic surveillance, providing equipment to the field, troubleshooting problems with equipment and systems, providing training to field office users, tracking needs of the field to identify new ELSUR requirements, and serving as the FBI's technical liaison with telecommunications service providers. Often times the responsive nature of the TICTU requires immediate modifications to the DCS-3000 software suite to perform emergency requirements. The TICTU's responsibilities make the unit a critical element of the Electronic Surveillance Technology Section as well as the overall FBI.

1.2.1 Project Background

The DCS-3000 system is a custom system developed, deployed, and supported by TICTU. The DCS-3000 provides access and collection of both call detail information (i.e. pen-register and trap/trace) and call content for a variety of telecommunications switches. Emerging technologies such as Voice Over Internet Protocol telephony

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services, [redacted] services, packet switching and General Packet Radio Services will require future modifications to the DSC 3000 suite. The recent certification and accreditation certification of the CALEA interface to FISA collection systems with also require modification to adjust with these same emerging technologies. Failure to modify our collection systems to push CALEA and non-CALEA interim CDC to FISA systems is a serious threat to diminishing the FBI's investigative efficiency. The DCS-3000 system is deployed and in use in all FBI field offices and is used for **all** FBI ELSUR (pen-register, trap/trace, Title-III, and Title-50) of wireless communications technologies and an increasing amount of wireline technologies.

Initially, the FBI believed the DCS-3000 capability would be a relatively short-lived prototype system that would quickly be replaced by commercial systems. However, the emergence of satisfactory commercial products for telecommunications switch-based ELSUR has been slow. During the transition to the Communications Assistance for Law Enforcement Act (CALEA) implementation, various parts of the telecommunications industry have deployed some intermediate level of electronic surveillance capabilities. These intermediate capabilities are not well supported by commercial surveillance products. Thus, the FBI has continuing requirements to specify, develop, field, and support surveillance systems in order to achieve its mission.

The TICTU is also responsible for the research, development, and deployment of off-air ELSUR (interception, identification, and direction-finding) capabilities for advanced wireless communications systems. For many years, the FBI has successfully utilized off-air ELSUR techniques and technologies developed by TICTU to identify the [redacted] fugitives and kidnappers. However, the rapid evolution of wireless telecommunication technologies and the increasing use of "over-the-air" encryption by wireless service providers are drastically increasing the complexities of off-air ELSUR.

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The TICTU must develop new off-air ELSUR technologies and techniques to address these rapidly increasing complexities. A major TICTU initiative is to integrate switch-based ELSUR product with off-air ELSUR technology to create an efficient and effective technique [redacted] The DCS-3000 system that is used by the FBI for all wireless switch-based intercepts can provide real-time cell-site, pen-register, and trap/trace information that can and should be used to assist in off-air identification and location operations. This initiative requires significant effort for the research, specification, development, deployment, and support of new off-air ELSUR technologies and integration of these new systems with the FBI's existing enterprise collection systems.

1.2.2 Objectives

The FBI requires support to extend the current DCS-3000 system and to specify and develop additional capabilities for the DCS-3000 system. In addition, the FBI

requires support in its ongoing mission to develop, deploy, and support wireless off-air ELSUR systems that will provide enhanced investigative capabilities.

This SOW defines the tasks required to support the FBI's ELSUR needs. The specific objective is procure the following types of services:

- Analytical support services to support the definition of system requirements for new ELSUR capabilities and provide liaison with telecommunications service providers for technical evaluation of proposed solutions.
- Design and engineering services to support the extensions to existing ELSUR systems (e.g. DCS-3000) and the development of new off-air surveillance systems.
- Installation, integration, and implementation services to support the development, integration, and testing of extensions of existing and new ELSUR systems.
- Operations and maintenance services to support applications software maintenance, documentation, help desk operations, logistics, and field support.

1.3 Computer and Telecommunications Environment

This task shall be performed primarily at a location furnished by the contractor. Specific requirements for office furniture, support systems, computer hardware and software shall be identified in the contractor's proposal.

2.0 STATEMENT OF WORK

2.1 Task Description

This is a firm fixed price task. The contractor shall provide labor and technical services for one year to support the specification, development, verification, operation and maintenance of ELSUR systems. Much of the work of TICTU is often driven by urgent requirements of cases and other projects that the organization is required to support. As a result, the specific activities the contractor will be required to perform cannot be defined a priori. However, the types of required tasks can be characterized. Tasks the contractor will be called upon to perform include:

2.1.1 Program Planning Support [Deliverable D-1]

The goal of this task is to support TICTU in performing the administrative and program management functions necessary to accomplish its stated objectives. Specifically, the contractor shall support TICTU in the planning and execution of individual projects, including the following:

1. Develop execution plans that identify projects, timelines, budgets, and staffing necessary to execute the TICTU mission.

2. Prepare program briefings for project status, technical overviews, budget data, schedule information, and program strategy.
3. Develop control products required by ERF's project management process.

2.1.2 Implementation Support [Deliverable D-2]

The TICTU must develop, procure, and deploy advanced ELSUR capabilities to meet the investigative demands of the field. The contractor shall provide solution implementation support, including the following:

1. Develop requirements for new technologies or systems to include the following activities:
   a. Define high level electronic surveillance needs documentation
   b. Develop implementation plans that define the approach for deployment of off-air intercept solutions.
2. Evaluate technical solutions proposed by a vendor or a service provider and document the results of the evaluations.
3. Verify and document surveillance solutions proposed by vendors or telecommunications service providers.

2.1.3 Software Development Support [Deliverable D-3]

The goal of this task is to continue the development and support for the DCS-3000 collection system. The contractor shall provide support to:

1. Develop new software applications to support new collection requirements.
2. Modify/enhance the existing DCS-3000 system to provide support for the following:
   a. New revisions of switch operating software. Frequently, new switch software revisions change the format and content of pen-register and trap/trace data
   b. New communications facilities to support new requirements for data communications between service provider switches and the collection system or between elements of the collection system
   c. New interfaces for DCS-3000 system configuration and operation
   d. Collection of call detail and content information from previously unsupported switch types.
3. Perform software maintenance and troubleshooting to resolve intercept system operational and performance problems identified by TICTU and FBI field offices.

The efforts of the contractor for this task shall be documented in detailed Software Development Support Reports.

1. Provide the engineering services and training required to deploy, maintain, and operate the hardware and software configurations necessary to support specific case requirements for switch-based and off-air ELSUR systems.
2. Provide field support for the testing, installation, and troubleshooting of new and revised ELSUR systems.
3. Provide support for the assembly and testing of component boards for ELSUR systems.
4. Develop the materials necessary to train field office personnel in the use of switch-based access and collection systems and off-air identification and location systems.
5. Provide support for TICTU's efforts to conduct regional training classes as well as training at ERF.

The contractor shall document operations and logistics activities in Operations and Logistics Support Reports.

2.1.7 User Manual Document Support [Deliverable D-7]

The goal of this task is to provide appropriate user manuals for ELSUR systems. The contractor shall develop and/or enhance user technical user manual documentation for existing and new ELSUR systems as needed.

2.1.8 System Security Support [Deliverable D-8]

The goal of this task is to support TICTU in developing and deploying appropriate system security for the DCS-3000. The contractor shall provide support to:

- Review, develop, document or update security requirements, plans and procedures
- Develop security concepts of operations
- Develop security architectures
- Perform and document risk assessments
- Develop and/or assemble materials in preparation for system security certification and accreditation

The contractor shall document system security support activities in System Security Support Reports.

2.1.9 Monthly Status Reports [Deliverable D-9]

The goal of this task is to provide, on a monthly basis, an executive summary of the previous month's progress and activities, planned activities for the next month, and any problems and/or issues that have been identified. The contractor shall submit a

(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 06/10/2003

To: Finance **Attn:** [redacted] Newington-Annex, Building L (Enc)
[redacted] Newington-Annex, Building L (Enc)

Counterintelligence [redacted] Rm 4844 (Enc)
[redacted] Rm 1B045 (Enc)

Criminal Investigative [redacted] Rm 5515

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

b6
b7C

Approved By: [redacted]
Thomas Marcus C
Clifford Michael Jr
[redacted]

Drafted By: [redacted] ehb

Case ID #: 268-HQ-1045581

b2
b7E

Title: DCS-5000

Synopsis: The Engineering Contracts Unit (ECU) is requested to assign Booz/Allen/Hamilton with a task under GSA's Federal Supply Service contract [redacted] for one base year and four option years, to provide labor and services to continue to support the specification, development, verification, operation, and maintenance of electronic surveillance systems for emerging wireless and wireline telecommunications technologies.

Enclosure(s): FD-369, #128854 in the amount of $4,558,004, Statement of Work, Acquisition Plan, Justification for other Than Full and Open Competition, and Non-IT Waiver.

Details: The Telecommunications Intercept and Collection Technology Unit (TICTU) is responsible for the development, deployment, and support of access and collection technologies to perform lawfully authorized electronic surveillance of telecommunications services. The TICTU is engaged in a number of rapidly developing and changing telecommunications activities and projects that require program planning, requirements development, development, deployment, support of collection systems, and industry liaison and coordination support. In order to

[redacted]

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accomplish its mission, the TICTU requires the augmentation of its current capabilities with additional collection system software development, wireless communications technical expertise, and telecommunications industry expertise.

The DCS-3000 system is a custom system developed, deployed, and supported by the TICTU. The DCS-3000 provides access and collection of both call detail information (i.e., pen-register and trap/trace) and call content for a variety of telecommunications switches. The DCS-3000 has recently been modified to comply with new Counterintelligence Division (CD) security requirements to meet certification and accreditation. These modifications are integral to maintaining security and timely pen register and voice collections. The emergence of commercial systems with adequate Communications Assistance for Law Enforcement Act (CALEA) capabilities has been slow, and is unavailable for tactical CD case support. Further, due to delays in the implementation of CALEA and ongoing standards, various parts of the telecommunications industry have deployed some intermediate level of electronic surveillance capabilities. These intermediate capabilities will not likely be well supported by commercial surveillance products. Thus, the TICTU has a continuing requirement to specify, develop, field, and support surveillance systems in order to achieve its mission. New technologies that must be addressed include Voice Over Internet Protocol, packet-mode telephony, General Packet Radio Service, and nationwide [redacted] services from [redacted]

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The TICTU is also responsible for the research, development, and deployment of off-air electronic surveillance (interception, identification, and direction-finding) capabilities for advanced wireless communications systems. The FBI has been successful with capturing wireless target phone numbers and locations in real time with techniques and technologies developed by the TICTU. However, the rapid progression of wireless telecommunication technologies and the increasing use of "over-the-air" encryption by wireless service providers are drastically increasing the complexities of off-air electronic surveillance.

The TICTU must develop systems to integrate switch-based electronic surveillance product with off-air electronic surveillance technology to create an efficient and effective technique to identify and locate targeted wireless telephones. The DCS-3000 system is used for all wireless switch-based intercepts and can provide real-time [redacted] pen-register, and trap/trace information that can and should be used to assist in off-air identification and location operations. This initiative

[redacted]

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requires significant effort for the research, specification, development, deployment, and support of new off-air electronic surveillance technologies and integration of these new systems with the FBI's existing enterprise collection systems.

Booz/Allen/Hamilton is currently supporting many of the TICTU's activities and is the only company with the unique mix of qualifications required to adequately address the breadth and depth of the TICTU program needs. Booz/Allen/Hamilton supported the development of the current DCS-3000 collection system and other related CALEA test platforms and has supported the TICTU's CALEA operational needs since 1997. Most recently Booz/Allen/Hamilton has modified the DCS-3000 software suite to accommodate one way push scenario to enable Title 50 systems to accept CALEA data into Foreign Intelligence Surveillance Act collection systems. Booz/Allen/Hamilton also has technical expertise in the field of off-air electronic surveillance of wireless communications systems.

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The TICTU requests the Finance Division to assign Booz/Allen/Hamilton a task, under GSA contract number [redacted] to provide support to extend the current DCS-3000 system and to specify and develop additional capabilities for the system. Also, the TICTU requires support in its ongoing mission to develop, deploy, and support wireless off-air electronic surveillance systems that will provide enhanced investigative capabilities.

Funding in the amount of $4,558,004 is available for the task specified. Funding is available as follows:

[redacted]

OTHER out of scope

[redacted]

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(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 06/04/2003

To: Finance **Attn:** [redacted] Rm 6032 (Enc)
[redacted] Rm 6823 (Enc)
[redacted] Chantilly (Enc)

Information Resources [redacted] Rm 6421
Criminal Investigative [redacted] Rm 5155

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

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Approved By: [redacted]
Thomas Marcus C
Clifford Michael Jr
[redacted]

Drafted By: [redacted] :ehb

Case ID #: 269-HQ-1194267

Title: DCS-3000

Synopsis: The Finance Division is requested to initiate contract action to solicit vendors under the GSA FTS-2001 contract to satisfy requirements as set forth in the attached Statement of Work.

Enclosure(s): Digital Collection System Network (DCSNET) Statement of Work, FD-910, FD-369 #128851 in the amount of $560,000.

Details: The Telecommunications Intercept and Collection Technology Unit (TICTU) is responsible for the development, deployment, and support of access and collection technology to perform lawfully authorized electronic surveillance (ELSUR) of telecommunications services.

The DCS-3000 and DCS-5000 systems provide access and collection of both call detail information (i.e., pen-register and trap/trace) and call content for a variety of telecommunications switches. To deliver the ELSUR data from the service providers to the collection systems require a reliable, scalable network. The enclosed Statement of Work describes the requirements for such a network, referred to as DCSNET.

[redacted]

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5-20-03

DIGITAL COLLECTION SYSTEM NETWORK
STATEMENT OF WORK
UNDER GSA FTS 2001CONTRACT

1.0 INTRODUCTION

This Statement of Work (SOW) is to be performed under General Services Administration (GSA) FTS 2001 contract.

1.1 Organization

This SOW is for the United States Department of Justice, Federal Bureau of Investigation (FBI), Washington, D.C.

1.1.1 Identification and Address

U.S. Department of Justice
Federal Bureau of Investigation
Telecommunications Intercept and Collection Technology Unit
Electronic Surveillance Technology Section
Engineering Research Facility
Building 27958A
Quantico, VA 22135

1.2 Mission

The mission of the FBI's Telecommunications Intercept and Collection Technology Unit (TICTU) is the development, deployment, and support of access and collection technology to perform lawfully authorized electronic surveillance (ELSUR) of telecommunications services. The TICTU is responsible for providing equipment to the field, troubleshooting problems with equipment and systems, providing training to field office users, tracking needs of the field to identify new ELSUR requirements, and serving as the FBI's technical liaison with telecommunications service providers. The TICTU's responsibilities make the unit a critical element of the Electronic Surveillance Technology Section as well as the overall FBI.

1.2.1 Project Background

The DCS-3000 system is a custom system developed, deployed, and supported by TICTU. The DCS-3000 provides access and collection of both call detail information (i.e. pen-register and trap/trace) and call content for a variety of telecommunications switches. The DCS-3000 system is deployed and in use in 56 FBI field offices and is used for all FBI ELSUR (pen-register, trap/trace) of wireless communications technologies and an increasing amount of wireline technologies. The DCS-3000 provides a front-end Communications Assistance for Law Enforcement Act (CALEA) interface to the DCS-6000 collections system, used for Title-III collection.

5-16-2003

DCSNET STATEMENT OF WORK
UNDER GSA FTS 2001CONTRACT

1.0 INTRODUCTION

This Statement of Work (SOW) is to be performed under General Services Administration (GSA) FTS 2001 contract.

1.1 Organization

This SOW is for the United States Department of Justice, Federal Bureau of Investigation (FBI), Washington, D.C.

1.1.1 Identification and Address

U.S. Department of Justice
Federal Bureau of Investigation
Telecommunications Intercept and Collection Technology Unit
Electronic Surveillance Technology Section
Engineering Research Facility
Building 27958A
Quantico, VA 22135

1.2 Mission

The mission of the FBI's Telecommunications Intercept and Collection Technology Unit (TICTU) is the development, deployment, and support of access and collection technology to perform lawfully authorized electronic surveillance (ELSUR) of telecommunications services. The TICTU supports a broad range of operational investigative needs of the FBI. This support focuses on national security and criminal investigative requirements for Title-III, Title-50, pen-register, and trap and trace interceptions. The TICTU is responsible for providing equipment to the field, troubleshooting problems with equipment and systems, providing training to field office users, tracking needs of the field to identify new ELSUR requirements, and serving as the FBI's technical liaison with telecommunications service providers. The TICTU's responsibilities make the unit a critical element of the Electronic Surveillance Technology Section as well as the overall FBI.

1.2.1 Project Background

The DCS-3000 system is a custom system developed, deployed, and supported by TICTU. The DCS-3000 provides access and collection of both call detail information (i.e. pen-register and trap/trace) and call content for a variety of telecommunications switches. The DCS-3000 system is deployed and in use in fifty-six FBI field offices and is used for all FBI ELSUR (pen-register, trap/trace, Title-III, and Title-50) of wireless communications technologies and an increasing amount of wireline technologies. The

DCS-3000 provides a front-end Communications Assistance for Law Enforcement Act (CALEA) interface to the DCS-5000 collection system, used for Title-50, FISA collection, and to the DCS-6000 collections system, used for Title-III collection.

As the wireless and wireline phone carriers become CALEA compliant, most of the ELSUR data is delivered to the FBI though consolidated data circuits at specific access points around the country. The TICTU's Switch-Based Intercept Team is responsible for distributing this data to the appropriate field offices where it is collected per court orders. Since this data is delivered real-time, the network infrastructure to deliver this data must be efficient and extremely reliable. Any loss of connectivity could result in permanent loss of ELSUR data.

To attain a network capable and reliable enough carry this critical data, TICTU is looking to an outside vendor to design, implement and manage a dedicated network to specifically meet these needs.

1.2.2 Objectives

This SOW defines the tasks required to support the FBI's ELSUR needs. The specific objective is procure the following services:

- A reliable managed network to support the critical ELSUR needs for the FBI

2.0 STATEMENT OF WORK

Task Requirements

The requirements within this section are a minimum set of characteristics the vendor will have to provide in building and maintaining the DCSNET. Once a vendor has been chosen, the vendor will have to fulfill the order within the time frame specified in requirement section 2.3.2.

2.1 Network Requirements

2.1.1 Topology

The network shall be fully meshed. Each node shall be able to communicate with every other node directly, without traversing any other node of the network.

2.1.2 Bandwidth

The network shall have a minimum bandwidth of 56kb. The bandwidth shall be easily upgradeable to 1.544Mb without hardware changes and without FBI personnel going onsite.

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FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 05/08/2003

To: Investigative Technology

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: Clifford Michael Jr [redacted] b6 b7C

Drafted By: [redacted] ehb

Case ID #: 269-HQ-1194267

Title: DCS-3000

Synopsis: To report travel to Atlanta, Georgia during 04/09-11/2003.

Details: During 04/9-11/2003, Electronics Engineer (EE) [redacted] and EE [redacted] traveled to the Atlanta Field Office to assist in the installation of electronic surveillance equipment for call data channel and call content channel from a [redacted] switching platform. EEs [redacted] and [redacted] successfully implemented a Communications Assistance for Law Enforcement Action intercept on a [redacted] switch. The testing performed both pen register and audio delivery to the Atlanta Field Office. This was a return trip from the 02/13/2003 testing. EE [redacted] and EE [redacted] also upgraded the Atlanta Field Office's DCS-3000 router for an upcoming Title III order to be implemented. Since this travel, successful implementation of the Title III order has been accomplished. b2 b6 b7C b7E

CC: [redacted]
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b2 b7E [redacted]

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FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 05/08/2003

To: Investigative Technology

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703[redacted]

Approved By: Clifford Michael Jr
[redacted]
b6
b7C

Drafted By: [redacted]:ehb

Case ID #: 269-HQ-1194267

Title: DCS-3000

Synopsis: To report travel to Dallas, Texas during 01/29-30/2003.

Details: During 01/29-30/2003, Electronics Engineer (EE) [redacted] traveled to the Dallas Field Office to assist in the installation of electronic surveillance equipment for Call Data Channel egress from a [redacted] switching platform. EE [redacted] assisted Technical Trained Agent (TTA) [redacted] in installation and testing. Successful testing of CDC delivery was performed. Since this travel, TTA [redacted] has successfully implemented his court ordered surveillance.
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CC: [redacted]
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(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 05/07/2003

To: Investigative Technology

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: Clifford Michael Jr [redacted] b6 b7C

Drafted By: [redacted] :ehb

Case ID #: 269-HQ-1194267

Title: DCS-3000

Synopsis: To report travel to Detroit, Michigan during 04/23-25/2003.

Details: During 04/23-25/2003, Electronics Engineer (EE) [redacted] and BAE Systems employee [redacted] traveled to the Detroit Field Office to assist in the installation of electronic surveillance (ELSUR) equipment for Call Data Channel (CDC) and Call Content Channel (CCC) from a [redacted] switching platform. EE [redacted] and [redacted] successfully assisted Technically Trained Agents (TTA) [redacted] and [redacted] in the installation of CALEA CCC and CDC egress equipment in the [redacted] switch site. Installation of the equipment was performed to implement a signed ELSUR court order. Due to lack of experience in utilizing the Communications Assistance for Law Enforcement Act surveillance feature, successful testing was not accomplished during this travel. Since this travel, testing has occurred and implementation of the court order is proceeding. b2 b6 b7C b7E

CC: [redacted] QT-ERF
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FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 04/07/2003

To: Finance **Attn:** [redacted] Newington-Annex, Building L (Enc)
[redacted] Newington-Annex, Building L (Enc)
Criminal Investigative A/SC Kevin P. Dooley, Rm 5155

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: [redacted] b6 b7C
Thomas Marcus C
Clifford Michael Jr
[redacted]

Drafted By: [redacted]:ehb

Case ID #: 268-HQ-1045581

Title: DCS-5000

Synopsis: Approve purchase of 96 various cisco routers and associated components to be used in support of the DCS-5000 and DCS-3000 programs.

Enclosure(s): FD-369, #128829 in the amount of $411,741, quotes from Northrop Grumman Computing Systems, Incorporated; Force 3, Incorporated; and GTSI Corporation; and Non-IT Waiver Request.

Details: The Telecommunications Intercept and Collection Technology Unit (TICTU) is the primary development, deployment, and support unit for switch-based telecommunications intercepts. The TICTU supports criminal, national security, and foreign counterintelligence investigations utilizing telecommunications intercept techniques. To perform the operations involving Title III, Title 50 court ordered surveillance, and the DCS-5000 and DCS-3000 programs, TICTU must be able to provide support in a timely manner.

Attached is requisition #128829, in the amount of $411,741 for the procurement of 96 various cisco routers and associated components. The routers will be modified to meet system specifications then deployed to the field. The components are needed to build out specific applications with the system.

[redacted]

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(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 05/08/2003

To: Investigative Technology

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: Clifford Michael Jr [redacted] b6 b7C

Drafted By: [redacted] ehb

Case ID #: 269-HQ-1194267

Title: DCS-3000

Synopsis: To report travel to Atlanta, Georgia during 02/12-13/2003.

Details: During 02/12-13/2003, Electronics Engineer (EE) [redacted] EE [redacted] and Electronics Technician (ET) [redacted] traveled to the Atlanta Field Office to assist in the installation of electronic surveillance equipment for Call Data Channel (CDC) and Call Content Channel from a [redacted] and a [redacted] switching platform. EEs [redacted] and [redacted] and ET [redacted] performed "friendly" testing with a major landline carrier to work out specific details on a Communications Assistance for Law Enforcement Act (CALEA) implemented surveillance. Successful testing for the [redacted] platform was accomplished. Several technical difficulties arose with the [redacted] CALEA implemented solution. Procurement of the telecommunication service provider's suggested equipment for CDC circuit termination was pursued subsequent to this trip. Ultimately, all the technical impediments were overcome on a following trip. b2 b6 b7C b7E

CC: [redacted]
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FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 05/16/2003

To: Finance **Attn:** [redacted] Rm 6032 (Enc)
[redacted] Rm 6823 (Enc)
[redacted], Chantilly (Enc)

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: [redacted] b6 b7C
Thomas Marcus C
Clifford Michael Jr
[redacted]

Drafted By: [redacted]:ehb

Case ID #: 269-HQ-1194267

Title: DCS-3000

Synopsis: The Finance Division is requested to submit a Statement of Work to vendors for proposals on building out a network to support the operation and maintenance of electronic surveillan systems for emerging wireless and wireline telecommunications technologie

Enclosure(s): DCSNET Statement of Work

Details: The Telecommunications Intercept and Collection Technology Unit (TICTU) is responsible for the development, deployment, and support of access and collection technology to perform lawfully authorized ELSUR of telecommunications services.

The DCS-3000 and DCS-5000 systems provide access and collection of both call detail information (i.e., pen-register and trap/trace) and call content for a variety of telecommunications switches. To deliver the ELSUR data from the service providers to the collection systems require a reliable, scalable network. Such services are available from [redacted] which are named on the GSA FTS-2001 contract. The enclosed Statement of Work describes the requirements for such a network. b2 b7E

The estimated cost of this network is $600,000 annually, to be paid out of TICTU's budget.

[redacted]

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FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 04/03/2003

To: Investigative Technology

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: Clifford Michael Jr [redacted] b6 b7C

Drafted By: [redacted] :ehb

Case ID #: 269-HQ-1194267 (Pending)

Title: DCS-3000

Synopsis: To report travel to Beckley, West Virginia; Phoenix, Arizona; and Atlantic City, New Jersey.

Details: During 01/28/-29/2003, Electronics Technicians (ET) [redacted] traveled to Beckley, West Virginia to install equipment into a cellular providers space and the Beckley Resident Agency (RA). A Packet Assembler-Disassembler (PAD) and a modem were installed at Highland Cellular to enable the pen register collection. The cable to connect the switch to the PAD was not present. Highland Cellular tried to reach out for [redacted] to get the correct cable but the pen register expired before this was done. A DCS-3000 workstation and a modem were installed at the RA to collect the pen register information. ETs [redacted] trained and were assisted by Technically Trained Agent (TTA) [redacted] of the Pittsburgh Field Office (FO). b2 b6 b7C b7E

During 03/11/14/0203, ETs [redacted] traveled to Phoenix, Arizona to install equipment for [redacted] intercepts. [redacted] was connected to the Phoenix FO the week prior using CALEA intercept equipment (ie: routers and 56K DDS circuit). A rack containing a [redacted] cards was installed to be used with the VoiceBox III. The [redacted] card broke out the T1 into 24 channels, and the [redacted] cards combined the target and associate together into one output. Another system was in place for FISA intercepts. It used a separate T1 and a CPU to modify the 480 hertz tone from a [redacted] switch into "C" tone to control the recording equipment. Both systems were tested with [redacted] and b2 b6 b7C b7E

[redacted]

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were successful. ETs [redacted] were assisted by Telecommunications Specialist Karen Hajek and BAE Systems employee Tony McLean of the Phoenix FO.

During 03/25-26/2003, ET [redacted] and BAE Systems employee [redacted] traveled to Atlantic City, New Jersey to install two DCS-3000 Title III workstations. The workstations were connected and tested for data collection through the network. The recorders, printers, and audio connections were tested and were successful. ET [redacted] trained and was assisted by TTA [redacted] of the Newark FO. b6 b7C

CC: [redacted] QT-ERF
[redacted] QT-ERF
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QT-ERF b6 b7C

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Justification for other than full and open competition.

This document is submitted as a justification for other than full and open competition for the award of a *services contract* for utilization by the Federal Bureau of Investigation's (FBI) Telecommunications Intercept and Collection Technology Unit (TICTU). The TICTU is the primary development, deployment, and support unit for switch-based telecommunications intercepts. TICTU supports criminal, national security, and foreign counterintelligence investigations utilizing telecommunications intercept techniques. To perform the operations involving pen register, Title III, and FISA court ordered Electronic Surveillance (ELSUR), TICTU must be able to provide support to field offices in a timely manner.

Tasking under this *services contract* will provide two main functions for TICTU. First is logistical support in training and liaison. The FBI is in a continual relationship with all major telecommunication service providers. The ability of the FBI to tactically implement court authorized ELSUR and react in exigent circumstances to threats of life require a significant amount of training and liaison. This requires industry leaders with unique abilities and backgrounds. Secondly, this contract will support continuing software developments pertaining to the FBI's ELSUR capabilities. The continuing emergence of new telecommunications technologies require a unique ability to design and implement solutions at accelerated rates. The lack of a quick reaction capability to adapt ELSUR techniques within the FBI results in significant vulnerability and exploitation opportunities to enemies of the United States of America. The remaining portions of this justification are to stress the critical nature and unique characteristics of the tasking required under this contract. This contracting effort will be awarded for the amount of $2.1 million dollars for FY05 with four years of renewal options.

Currently TICTU is utilizing the DCS 3000 software suite to accomplish its ELSUR collections in every FBI Field Office. The FBI's dependence on the DCS 3000 software suite depends on tactical adaptability and its application on all ELSUR intercepts utilizing the Communication Assistance to Law Enforcement Act (CALEA) standard to include delivery of pen register and several versions of packet audio collection. The development of the DCS 3000 software suite has been accomplished by one company. Booz Allen Hamilton has been in active development of this CALEA

software interface for more than 5 years. Booz Allen Hamilton is actively performing maintenance on this software under existing contracting efforts. The complexity and unique institutional requirements of the FBI's CALEA ELSUR mission are uniquely understood and met by Booz Allen Hamilton's staff. The DCS 3000 code which currently stands at [redacted] ***lines*** of computer code is completely and solely maintained by Booz Allen Hamilton's computer programming staff. It is impractical to re-engage in development effort with a new vendor. This would have two costs which are unacceptable: first is the monetary cost for the government to re-code and redevelop capabilities which already exist, and secondly and more importantly, the cost in time for any other vendor to develop a comparable solution. The time lost means intelligence collections losses to the FBI. b2 b7E

The DCS 3000 software suite consists of the following existing applications:

The DCS 3000 **Multiserver** application is a fundamental connection application providing for a wide array of data delivery connections. The Multiserver application has incorporated into its filters several generations of proprietary switch vendor data formats including switch manufacturers such as [redacted]. Along with the filtering and processing capabilities of the Multiserver application are several protocol interfaces for accessing the required Call Data Channel (CDC) or pen register information. Currently the Multiserver supports TCP/IP connections in a client mode, FTP with login mode, serial connection with password authentication mode, timed/request initiated connection mode and GR30 (Frequency Shift Keying using caller ID specifications) mode. These modes are all utilized to perform ongoing ELSUR collections. This application is also envisioned to be modified for future technology collections when tactically needed. b2 b7E

The DCS 3000 **Multivanguard** application is a CDC distribution and primary server mode collections software. The Multivanguard has a proprietary redistribution technique based on case identification parameters. This software is currently the pathway for all CDC data collections for service providers using the [redacted] CALEA delivery system, the [redacted] CDDU delivery system, and several proprietary delivery systems being used by major wireless telecommunications carriers. The Multivanguard also integrates with the DCS 5000 and DCS 6000 systems for input of CDC information for collection. These systems currently must interface through the DCS 3000 Multivanguard. There is no vendor system available to perform b2 b7E

the functions of the DCS 3000 Multivanguard.

The DCS 3000 **Server** application is utilized for [redacted] CDC collection. The DCS 3000 server application has protocol and interface modes specific for the [redacted] PTT [redacted] communications. This is the TICTU's primary pen-register interface for [redacted] collections. b2 b7E

The DCS 3000 **VDecoder** application is a Vector Sum Excited Linear Predictor (VSELP) decode software for use with the [redacted] proprietary [redacted] PTT Call Content Channel (CCC) delivery. The DCS 3000 VDecoder was the first application for decoding of [redacted] audio and is an essential application for TICTU in its current support of field operations. b2 b7E

The DCS 3000 **Enhanced Codec Decoder (ECD)** application is a decoding application for [redacted] a proprietary Qualcomm codec which Booz Allen Hamilton has integrated into this application to perform audio decode for [redacted] collections. This application is essential for collections of [redacted] audio. b2 b7E

The DCS 3000 **Viking** application is a server application for the collection of [redacted] CDC information. This software also is the gateway for all CCC packets in the case of an audio intercept. It works in conjunction with the ECD to decode audio packets for [redacted] intercepts. It is the first developed application to perform this type of intercept. b2 b7E

The DCS 3000 **Tracker** application is an integrated specialized software to graphically display the cell site location for a targeted subject. This software utilizes the CALEA location information, collected with lawful authorization, by requesting global position system (GPS) coordinate information from a TICTU developed [redacted] b2 b7E

The training of these applications is currently being supported by Booz Allen Hamilton personnel. The TICTU presents a class to FBI Technical agents on the operation and utilization of the DCS 3000 suite of applications. Since this software is solely utilized by law enforcement entities there are no commercially available avenues for training on it's use. TICTU personnel perform administration of classes to law enforcement agencies using the DCS 3000 with significant support from dedicated Booz Allen Hamilton personnel.

(Rev. 08-28-2000)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 01/06/2003

To: Investigative Technology

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: Clifford Michael Jr [redacted] b6 b7C

Drafted By: [redacted] ehb

Case ID #: 269-HQ-1194267 (Pending)

Title: DCS-3000

Synopsis: To report travel to Newark, New Jersey.

Details: On 11/22/2002, Electronics Technician (ET) [redacted] traveled to the Newark Field Office (FO) to assist in moving the DCS-3000 collection equipment into the new Newark FO. A Cisco 2620 router, two modems, and a DCS-3000 workstation were installed in the new Central Monitoring Plant. The connection for data was rerun to the Philadelphia FO because the T-1 was not yet installed between Newark and the New York FO. ET [redacted] was assisted by Technically Trained Agent (TTA) [redacted] of the Newark FO. b6 b7C

ET [redacted] and ET [redacted] traveled to the Newark FO during 12/18-19/2002 to finish installing the DCS-3000 workstations and configure the VoiceBox III. ETs [redacted] and [redacted] rack mounted the Cisco 2620 router, ran a CAT-5 networking cable, and connected a DCS-3000 workstation for FISA intercepts. ET [redacted] programmed routes into the VoiceBox III collection system to interface with the [redacted] firewall and the 2620 router. The T-1 between Newark and the New York FO was installed, but the incorrect channel bank cards were installed. The correct cards were brought over to Newark from the New York FO and the circuit was up in a few days. ETs [redacted] and [redacted] were assisted by TTA [redacted] of the Newark FO. b2 b6 b7C b7E

CC: [redacted] QT-ERF
QT-ERF
QT-ERF
QT-ERF b6 b7C

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DATE 06-04-2007 BY 65179 DMH/TAM/KSR/JB

[redacted] b2 b7E

(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: DEADLINE 03/01/2006 **Date:** 01/04/2006

TO: Anchorage
Birmingham
Buffalo
Chicago
Columbia
Dallas
El Paso
Jackson
Jacksonville
Kansas City
Little Rock
Los Angeles
Louisville
Minneapolis
Mobile
New Haven
New Orleans
Oklahoma City
Omaha
Phoenix
Pittsburgh
Richmond
Sacramento
San Diego
San Juan
Seattle
Springfield
WFO

ATTN: [redacted]

b6
b7C

From: Operational Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: SSA [redacted] 703-[redacted]

Approved By: [redacted]
Thomas Marcus C
Clifford Michael Jr
[redacted]

b6
b7C

Drafted By: [redacted]:bic

Case ID #: 269-HQ-1194267

Title: DCS-3000

[redacted]

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 06-04-2007 BY 65179 DMH/TAM/KSR/JB

b2
b7E

To: Albuquerque
Re: 269-HQ-1194267

From: Operational Technology
Date: 01/04/2006

out of

Synopsis: To advise of a Tscope mmunications Intercept and Collection Technology Unit (TICTU) training seminar to be held in San Diego, California.

Details: The TICTU will conduct a two-day seminar on switch-based intercept concepts and methods in San Diego, California during 04/12/2006-04/13/2006. The seminar is designed for Technically-Trained Agents (TTAs) and support personnel who routinely use collection equipment supported by TICTU. The seminar will provide training on new DCS-3000 features and updates on many issues related to switch-based electronic surveillance. Additionally, the participants will acquire a current overview of the Communications Assistance for Law Enforcement Act (CALEA) compliant solutions that telecommunication carriers use, and an updated description of the techniques developed by TICTU to provide intercept capabilities for these carriers' solutions.

This training has been coordinated with the Technical Personnel Development Unit and is being held on a regional basis to minimize travel expenses. The ITAR number is [redacted] b2 b7E

The following personnel have been assigned to attend this seminar. Please respond immediately to any changes in attendance.

Field Office	Attendees
Anchorage	[redacted]
Birmingham	
Buffalo	
Chicago	
Columbia	b6 b7C
Dallas	
El Paso	
Jackson	
Jacksonville	b2 b7E
Kansas City	

[redacted]

(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: DEADLINE 03/15/2005 **Date:** 03/02/2005

To: Albuquerque
Atlanta
Birmingham
Charlotte
Columbia
Dallas
Denver
El Paso
Honolulu
Houston
Jackson
Jacksonville
Knoxville
Las Vegas
Little Rock
Los Angeles
Memphis
Miami
Mobile
New Orleans
Oklahoma City
Phoenix
Sacramento
San Antonio
San Diego
San Francisco
San Juan
Tampa

Attn: [redacted]

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b7C

From: Investigative Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted]

Approved By: [redacted]
Clifford Michael Jr

b6
b7C

Drafted By: [redacted] :bic

Case ID #: 269-HQ-1194267

Title: DCS-3000

[redacted]

ALL INFORMATION CONTAINED
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DATE 06-04-2007 BY 65179 DMH/TAM/KSR/JB

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b7E

(Rev. 01-31-2003)

FEDERAL BUREAU OF INVESTIGATION

Precedence: DEADLINE 04/15/2005 **Date:** 03/24/2005

To: Albany
Anchorage
Baltimore
Buffalo
Boston
Chicago
Cincinnati
Cleveland
Detroit
Indianapolis
Kansas City
Louisville
Minneapolis
Milwaukee
Norfolk
New Haven
Newark
New York
Omaha
Portland
Pittsburgh
Philadelphia
Richmond
Seattle
Springfield
St. Louis
Salt Lake City
WFO

Attn: [redacted]

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b7C

From: Operational Technology
Electronic Surveillance Technology Section/TICTU/QT-ERF
Contact: SSA [redacted] 703-[redacted]

Approved By: [redacted]
Clifford Michael Jr

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b7C

Drafted By: [redacted]:bic

Case ID #: 269-HQ-1194267

Title: DCS-3000

[redacted]

ALL FBI INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 06-04-2007 BY 65179 DMH/TAM/KSR/JB

b2
b7E

To: Albany From: Operational Technology
Re: 269-HQ-1194267

Synopsis: To advise of a Telecommunications Intercept and Collection Technology Unit (TICTU) training seminar to be held in Kansas City, Missouri.

Details: The TICTU will conduct a three-day seminar on switch-based intercept concepts and methods in Kansas City, Missouri during 05/24/2005-05/26/2005. The seminar is designed for Technically-Trained Agents (TTAs) and support personnel who routinely use collection equipment supported by TICTU. The seminar will provide training on new DCS-3000 features and updates on many issues related to switch-based electronic surveillance. Additionally, the participants will acquire a current overview of the Communications Assistance for Law Enforcement Act (CALEA) compliant solutions that telecommunication carriers use, and an updated description of the techniques developed by TICTU to provide intercept capabilities for these carriers' solutions.

This training has been coordinated with the Technical Personnel Development Unit and is being held on a regional basis to minimize travel expenses. An ITAR number will follow at a later date.

Based on TICTU experience working with the field offices, it would be most beneficial for the following personnel to attend the seminar:

Field Office	Attendees
Albany	
Anchorage	
Baltimore	
Buffalo	
Boston	
Chicago	
Cincinnati	
Cleveland	

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(Rev. 08-28-2000)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 06/19/2001

To: Criminal Investigative **Attn:** [redacted] Rm 5155
Finance [redacted] Rm 6888 (Enc)
Information Resources [redacted] Rm 9396

From: Laboratory
Technical Operations Section/TICTU/OT-ERF
Contact: [redacted] 703-[redacted]

b6
b7C

Approved By: [redacted]

Drafted By: [redacted] :ehb

Case ID #: 269-HQ-1194267

Title: DIGITAL DELIGHT

Synopsis: The Finance Division, Engineering Contracts Unit, is requested to modify the Basic Ordering Agreement (BOA), with Integrated Systems Research (ISR) Corporation.

Enclosure(s): FD-369, Number 921714 in the amount of $34,066 and two quotes from ISR Corporation.

Details: The Telecommunications Intercept and Collection Technology Unit (TICTU) is the primary development, deployment, and support unit for switch-based and off-air telecommunications intercepts. The TICTU supports both criminal and national security investigations utilizing telecommunications intercept techniques. To perform the operations involved with Title III and Title 50 court ordered surveillance, TICTU must be able to provide support in a timely manner.

The attached requisition number 921714 dated 06/20/2001, allocates $34,066 for engineering services to fund the implementation of tasks FY2001-01 and FY2001-02 received from ISR.

The FBI negotiated a three year engineering services contract, J-FBI-96-068, with ISR Corporation which recently expired on 09/30/2000. This contract was negotiated with three option years which could be exercised at the discretion of the FBI. At this

[redacted]

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time, the FBI is negotiating a new multi-year contract, Reference FD-369 #850987, dated 01/31/01.

The Physical Surveillance Unit (PSU), Radio Surveillance Aids (RSA) has an established standard in place for performing computer generated mapping. This system is known internal to the FBI as [redacted] A standardized mapping system reduces the amount of training required for field personnel and increases their proficiency and efficiency as they are not required to learn a whole new mapping system with the introduction of each new tracking device. Not only are all FBI field offices are using the [redacted] mapping system, the [redacted] system software is installed on all new agents laptop computers. The FBI has a multi-user license agreement with ISR which states that an unlimited number of copies can be distributed throughout the FBI for use by FBI personnel. b2 b7E

The [redacted] system is used to display latitude and longitude (lat/long) locations from FBI Global Positioning System (GPS) tracking devices as well as the estimated lat/long position of a target transmitter. This lat/long position is calculated using line-of-bearing information and received signal strength. TICTU would like to leverage upon these existing capabilities and update and enhance the [redacted] system software to include a new data interface for their DCS3000 switch-based collection system. This new data interface will display the GPS location of a serving cellsite tower and will include a 'real-time' display of call detail information received from the DCS3000 system. b2 b7E

It is requested that the pending contract be increased by $34,066 to address the need for these services. Funding for this request is available under Budget Item 2580JM, Spend Code WLS200.

[redacted] b2 b7E

(01/26/1998)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE Date: 12/02/1998

To: Laboratory Attn: [redacted] QT-ERF

From: Laboratory
Electronic Surveillance Technology Section/CIMU/QT-ERF
Contact: [redacted] (703) [redacted] b6 b7C

Approved By: [redacted]

Drafted By: [redacted] ehb

Case ID #: 269-HQ-1194267 (Pending)

Title: DIGITAL DELIGHT
TRAVEL TO RALEIGH, NORTH CAROLINA TO INSTALL CUSTOM AUDIO INTERFACE FOR THE DCS3000 COLLECTION SYSTEM AND DIGITAL MULTIMEDIA WORKSTATION (DMW)

Synopsis: To report travel to Raleigh, North Carolina on 11/30-12/01/1998 to install a custom audio interface.

Details: Electronics Technician (ET) [redacted] b6 b7C traveled to Raleigh, North Carolina on 11/30-12/01/1998 to install a custom audio interface for the DCS3000 collection system and the Digital Multimedia Workstation (DMW). The custom audio interface was built "in-house" by EST-3 and will route call audio collected by the DCS3000 to the DMW.

Raleigh

(01/26/1998)

439

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 02/01/2001

To: Laboratory **Attn** [redacted] QT-ERF
QT-ERF
QT-ERF

From: Laboratory
Technical Operations Section/TICTU/QT-ERF
Contact: [redacted] 703[redacted]

Approved By: [redacted] b6 b7C

Drafted By: [redacted] ehb

Case ID #: 269-HQ-1194267-168 (Pending)
80-HQ-876-72

Title: DIGITAL DELIGHT
ON SITE FIELD SUPPORT

Synopsis: To report travel to Baltimore, Maryland during 01/25-26/2001. b6 b7C

Details: At the request of the Baltimore Division, Electronics Technician (ET) [redacted] traveled to Baltimore, Maryland to install a DCS3000 Title III Client system, which would assist with a fugitive hunt.

A DCS3000 Title III Client workstation to perform [redacted] based intercepts and wide area networking equipment were installed at the Baltimore Field Office. b6 b7C

ET [redacted] utilized a prototype software application, which he developed 'in-house', to provide a 'real-time' display of serving cellsite data on a computer mapping application. This information proved to be invaluable to the Baltimore FBI Fugitive Task Force and greatly assisted them in their efforts in locating the fugitive in Atlanta, Georgia.

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[redacted] b2 b7E

UPLOADED
MAR 0 6 2001
S.D.J. ehb

(01/26/1998)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE **Date:** 04/18/2000

To: Laboratory **Attn:** [redacted] QT-ERF
QT-ERF
QT-ERF

From: Laboratory
Technical Operations Section/TICTU/QT-ERF
Contact: [redacted] 703-[redacted] b6 b7C

Approved By: [redacted] MJM/MTE/RET
TE/RET

Drafted By: [redacted] ehb

Case ID #: 80-HQ-876-56
269-HQ-1194267-118 (Pending)

Title: ON SITE FIELD SUPPORT
DIGITAL DELIGHT

Synopsis: To report travel to Minneapolis, Minnesota on 04/10-14/2000.

Details: At the request of the Minneapolis Division, Electronics Technician (ET) [redacted] traveled to Minneapolis, Minnesota, to install two DCS3000 Title III workstations and networking equipment to perform intercepts on targets using [redacted] telephones. ET [redacted] deployed networking equipment and DCS3000 Client workstations at the Minneapolis Field Office (FO), Minneapolis Police Department (MPD), and the Minnesota Bureau of Criminal Apprehension (MnBCA). ET [redacted] configured a Cisco 2600 Series router in the Minneapolis FO to create a wide area network between [redacted] FBI, MPD and MnBCA. b2 b6 b7C b7E

ET [redacted] assisted a Fugitive Apprehension Task Force with two, separate fugitive searches by utilizing a prototype, [redacted] cellsite mapping database application. This application, designed by ET [redacted] interfaces with virtually any "commercial-off-the-shelf" [redacted] b2 b6 b7C b7E

b2 b7E [redacted]

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MAY 15 2000
S.D.J.

ALL INFORMATION CONTAINED
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DATE 06-04-2007 BY 65179 DMH/TAM/KSR/JB

b2 b7E

[redacted]

ET [redacted] provided technical assistance to the Minneapolis FO and assisted their efforts to perform Title III intercepts on targets utilizing [redacted] services. ET [redacted] through Special Agent [redacted] of the Minneapolis FO, assisted [redacted] with the development of [redacted] switch translations which will provide law enforcement with intercept capabilities for [redacted] telephones.

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[redacted]