

**NEXGEN CONTRACT SOW
FULL & OPEN COMPETITION
OCTOBER 2001**

1. BACKGROUND.

The Defense Information Systems Agency (DISA) is the Department of Defense (DOD) command and control information systems engineer and provides the engineering for interoperable, integrated, secure, and affordable DOD command and control information systems to support the warfighter. DISA Director for Information and Joint Information and Engineering Organization (D6/JIEO) provides engineering support to all program managers in DISA, Commanders in Chief (CINCs), and agencies with responsibilities for information systems design, development, and implementation in accordance with DISA resources and priorities and as directed by the Assistant Secretary of Defense, (Command, Control, Communications and Intelligence) (ASD(C3I)). The DISA Next Generation Engineering Contract (NexGen) provides support for the engineering and interoperability of DISA's core mission areas: Global Command and Control System (GCCS), Global Information Grid (GIG), Defense Information System Network (DISN), Defense Message System (DMS), Global Combat Support System (GCSS), Defense Information Infrastructure Common Operating Environment (DII COE), Information Assurance (IA), Electronic Business/Electronic Commerce (EB/EC), National Military Command Systems (NMCS) and Senior Leadership Communications System (SLCS). Additionally, this contract provides support for telecommunications services, enterprise computing, and future engineering requirements. This contract requirement is a consolidation of expiring contracts including: the Joint Information and Engineering Organization (JIEO) Systems Engineering Contract (JSE), the Defense Information Infrastructure Integration Contract (DII-IC), Data Standardization Management Support, and the Systems Engineering and Technical Assistance to the Command Centers and Crisis Management Facilities.

2. OBJECTIVE.

The objective of NexGen is to provide global scientific, engineering, integration, and technical services under multiple award, indefinite delivery/indefinite quantity (ID/IQ) task order type contracts that support DISA's missions and other DOD and Federal agencies. This acquisition provides DISA multiple flexible vehicles to support its agency-wide requirements and its customers who seek support within DISA's missions and functions. This contract will provide DISA with intensive software integration support for the GIG with integrated mission applications and data segments.

3. SCOPE.

The scope of this effort will span the breadth of DISA's mission. All DOD and Federal government agencies may also utilize these contracts to satisfy their engineering requirements. The contractor shall provide scientific, engineering, integration, and technical support services and operational support services as described within the task areas. Specific efforts tasked to the

contractor may include but are not limited to the descriptions of these task areas detailed in this document.

The span of scientific, engineering, integration, and technical support services required encompasses a range of tasks and several disciplines, including command and control, facilities, communications, airborne platforms, and information systems. Work under this contract will support the development, maintenance, and implementation of DOD Shared Data Resources, National Military Strategy of the United States, National Security Strategy, and Joint Strategic Capabilities Plan (JSCP). For DOD task orders, the contractor shall comply with the appropriate DOD-approved architectures, standards, and guidelines.

Seamless interoperability of the various mission and support applications encompassing DISA's mission, allowing information to be provided to warfighters regardless of location, is an absolute requirement for this contract. Efforts will include a full spectrum of engineering test and evaluation for the command centers and crisis management facilities that support the NMCS Command Centers and SLCS. Additionally, efforts are essential to provide network and system operations, maintenance and management services for network and information systems, systems administration, software, applications and demonstrations support for Defense Information Systems Network (DISN)..

4. FULL AND OPEN TASK AREAS. The contractor shall furnish the necessary personnel, materials, facilities, travel, and other services required to provide worldwide integration support, systems engineering and related services. Technical solutions provided by the contractor exist within the scope of the following six task areas:

1. Task Area 1 – General Systems Engineering
2. Task Area 2 – Information Systems Engineering
3. Task Area 3 – Network Engineering
4. Task Area 4 – Security Engineering
5. Task Area 5 – Information Technology Standards
6. Task Area 6 – Program Management

4.1 Task Area 1 - General Systems Engineering

4.1.1. General Support. The contractor shall provide support as specified in individual task orders to include engineering planning and engineering issues associated with integration, transition planning, installation, and systems configuration; engineering research, analysis, design, planning, execution and tracking efforts; conduct assessments of potential program requirements; assist in the development and implementation of an overall system engineering approach for programs; provide support to develop program dependencies and interfaces; and provide modeling, simulation, and assessment/analysis of networks. DISA requires this support for the DISN and connected networks; support for warfighter business applications, emerging technology and products using Commercial off-the-shelf (COTS) tools, network and applications performance using COTS tools, IA products and technology, and DISN products and technology. Additionally, support includes modeling, simulation, and assessment to address a broad range of issues pertaining to the Secret Internet Protocol Router Network (SIPRNet) including performance assessments to determine the impact of

network upgrades or redesign, new systems and technologies, new users, specific applications flowing across the networks, and specific protocols; assessments to identify and evaluate access links and connection points; survivability assessments to determine the impact of failed nodes and circuits; performance assessments to determine network strengths and shortfalls; maintenance and enhancement of DISA core modeling and simulation tools to improve accuracy and responsiveness of assessments.

4.1.2 Command Center Support. Provide systems engineering and technical assistance support for airborne and command centers, associated ground architectures, and ground entry points and earth stations. Representative of this task is sustainment, improvement, and interoperability support for the NMCS airborne assets, i.e., National Airborne Operations Center (NAOC), CINCSTRAT Airborne Command Post, and other Worldwide Airborne Resources (WABNRES), SLCS airborne platforms, i.e., Air Force One, other Special Air Missions aircraft, and CINC Support Aircraft, and for ground user facilities, nodes, and supporting networks, i.e., White House Communications Agency, National Military Command Center (NMCC), NMCC Site-R, SATSTAR, NORTHSTAR, MYSTIC STAR, and other DISN nodes.

4.2 Task Area 2 - Information Systems Engineering. The contractor shall perform the following activities as specified in individual task orders:

4.2.1 Applications Support. Support requirements analysis, design, engineering, and reengineering of software applications; develop the infrastructure and any needed interfaces for the migration and implementation of applications; develop the architecture for network-wide services (i.e., email, HTTP, Java, Distributed Computing Environment (DCE), Common Object Request Broker Architecture (CORBA) and/or Lightweight Directory Access Protocol (LDAP)); develop software scripts or segments to promote interoperability, provide missing functionality, additional configuration data, correct problems, or generally promote the integration of segments into a desired baseline; perform segmentation of already developed COTS or Government off-the-shelf (GOTS) software to enable the integration of new functionalities.

4.2.2 Database Support. Support reengineering efforts to include the overall business process; insertion of new mission support applications; definition, prioritization and resolution of problem reports; and analysis of the overall system architecture including aspects of design, development, implementation, and operational transition. Implement database and system services changes, re-engineer databases and replace the GOTS replication with a COTS replication capability, continue to maintain changes to the existing database structure and maintain software to provide synchronization. Develop tools and or techniques to assure maximum continuity of operations by minimizing database and data replication downtime associated with database modification or recovery. Provide database performance tuning in support of improving applications performance and system-wide database contention and concurrent user tuning. Develop and maintain interfaces to allow existing exterior feeder systems to exchange data and provide unique support required for various database applications.

4.3 Task Area 3 - Network Engineering. The contractor shall support network engineering for programs, labs, and command systems as defined in individual task orders.

4.3.1 Program Support. Provide network design, performance monitoring, and fault management, which includes networks, servers, applications, and force generation databases; collect operational performance statistics, analyze data, identify potential problems and recommend engineering solutions for these problems; conduct network architecture design and implementation options in conformance with specified guidelines; and review and update system and network management Concept of Operations (CONOPS).

4.3.2 Lab Support. Provide Technical Control Office (TCO) support; resolve and implement LAN configuration issues and equipment hookups; analyze, isolate, and coordinate corrective action for communications related problems; configure communications equipment to satisfy specific test bed requirements of the user; and provide networking capability for customers to ensure customers are isolated from each other to prevent unintentional harmful actions of one customer from impacting other customers.

4.4 Task Area 4 - Security Engineering. This task area includes support for planning, designing, developing, testing, demonstrations, rapid prototyping, integration, site surveys, installation, operation and maintenance of command and control communications, displays, firewall/guards, intrusion detection systems, and information sensors of computer/network systems and infrastructure operations; protect and sustain the information assurance requirements for system and information availability, access control, integrity, confidentiality, and non-repudiation; provide protection of the operating environments and software including network, operating systems, and databases; integrate and implement information assurance features for client/server and web enterprises; participate in the planning and conduct Security Test & Evaluations (ST&E), Modified Developmental Tests (MDT), and other testing scenarios; support implementation of user, server, and object certificates and other identification and authentication infrastructure elements. DISA also requires support for DOD Public Key Infrastructure (PKI) implementation strategies.

4.5 Task Area 5 – Information Technology Standards. The contractor shall provide joint and combined coordination, development, configuration management, and automation support for the Joint Interoperability of Tactical Command and Control Systems (JINTACCS) Program, including support for tactical data link, message text format, symbology, and related standards. Representative of this work are technical evaluations of change proposals, technical support of joint and combined interoperability fora, and operations and maintenance support of supporting automation resources.

4.6 Task Area 6 - Program Management Support. This task area addresses support for contract and task order management functions. The contractor shall perform the following:

4.6.1 Management Planning. Develop and maintain management plans at contract and task order initiation if requested. These plans shall describe the technical approach, organizational resources, and management controls that the contractor will employ to meet the cost, performance, and schedule requirements throughout the period of performance.

4.6.2 Task Order Management. Perform the daily activities required for successful program completion. Provide monthly status reports, which may include task summaries, problem areas or issues, contractor changes, travel, cost summaries, personnel labor costs and hours by tasks and/or

subtasks. Conduct monthly project management reviews addressing the status of programmatic and technical progress.

4.6.3 Internal Management Controls. Provide internal management controls that include established and documented means to execute and perform quality assurance on deliverables, configuration management, work breakdown structuring, human engineering, and security. Ensure that fielded products satisfy validated requirements and user expectations, are easy to use, augment, modify, and maintain, and are in compliance with specifications and standards for development, life cycle management and quality management. Conduct audits, reviews, assessments, and inspections for products and processes and retain the documented results in an electronic media accessible by the project offices.

5. GOVERNMENT FURNISHED INFORMATION (GFI), EQUIPMENT, AND WORKSPACE. The Government may provide the items listed below as necessary for the contractor to fulfill the tasks described in task order statements of work.

5.1 Information. Government furnished information (GFI) such as technical data, applicable documents, plans, regulations, and specifications may be specified in individual task orders.

5.2 Equipment. The Government may provide hardware and/or software requiring technical analysis, evaluation, verification, or study in support of a specific task as specified in individual task orders. GFE provided to the contractor in support of individual task orders shall be tracked through applicable procedures provided by the Contracting Officer in accordance with the FAR. Equipment shall be accounted for and marked accordingly for identification and tracking purposes with the Contract Number, Task Order Number, Serial Number and other information as required by the Contracting Officer. The Government does not intend to provide hardware/software equipment required to accomplish day-to-day work requirements in support of the overall contract-level effort. All GFE shall be returned to the Government at the completion of each task order unless otherwise specified.

5.3 Workspace. The Government may provide working space on an as-available basis and while on trips to Government-operated facilities or military installations. Details will be provided in individual task orders.

6. PERSONNEL CONSIDERATIONS AND FACILITIES.

6.1 Personnel Security. Personnel security requirements will be specified in individual task orders. The majority of personnel supporting DISA under this contract will require a minimum-security clearance of U.S. SECRET. In some cases, access to Sensitive Compartmented Information (SCI) may be required, and will be specified in individual task orders. Staff members with security clearances, SAP, and Presidential accesses are also required to complete tasks associated with NMCS and SLCS support. If required, any other special security requirements that exceed those specified in the contract-level DD Form 254 will be addressed in individual task order DD Forms 254.

6.2 On-Site/Lease/Rental of Facilities. The contractor shall provide facilities to support this contract unless otherwise indicated in individual task orders.

6.3 Classified Storage. The contractor shall establish and maintain a classified facility and procedures for receipt, storage, and generation of classified material, up to and including TOP SECRET, in accordance with the security programs such as the DoD Industrial Security Manual (DoD 5220.22-M), the DD Form 254, and appropriate security instructions or guidelines. Facilities and facility clearances for the storage of classified and Special Access Program (SAP) information, Special Compartmented Intelligence Facilities (SCIFs), SAP spaces for classified discussions is also required to complete tasks associated with NMCS and SLCS support. No classified or communications security (COMSEC) information shall be sent to or stored at the facility before it has been granted a facility clearance and storage capability defined by the Defense Security Service (DSS). If such requirement is imposed, it will be identified in the individual task order and the requirements will be contained in an accompanying DD Form 254.

6.4 Personnel Qualifications. The qualifications of any personnel provided by the contractor to perform these services shall meet the minimum qualifications as stated in Section J, Personnel Qualifications.

6.5 ADP Position Sensitivity. DOD 5200.2-R, DOD Personnel Security Program, requires DOD contractor personnel who perform work on sensitive automated information systems to be assigned to positions, which are designated at one of two sensitivity levels (ADP-I, ADP-II). These designations equate to Critical Sensitive, Noncritical Sensitive. All positions required for DOD task orders are, at a minimum, ADP-II. ADP position sensitivity will be addressed in individual task orders. The contractor shall assure that individuals assigned have completed the appropriate forms. The required investigation will be completed prior to the assignment of individuals to sensitive duties associated with the positions. The contractor shall forward their employee clearance information (completed SF 85P, Questionnaire for Positions of Public Trust, and two DD Forms 258 (Fingerprint cards) to: Defense Security Service (DSS) and for further assistance they can be reached through their website at www.dss.mil. DISA retains the right to request removal of contractor personnel, regardless of prior clearance or adjudication status, whose actions, while assigned to the this task order, clearly conflict with the interests of the Government. The reason for removal will be fully documented in writing by the Contracting Officer. When and if such removal occurs, the contractor shall within three working days assign qualified personnel to any vacancy(ies) thus created.

7. REPORTS, DATA, BRIEFINGS, MEETINGS, AND OTHER DELIVERABLES. The contractor shall provide all deliverables in accordance with the requirements as specified in individual task orders.

7.1 Periodic In-Progress Review (IPRs). The contractor shall conduct contract level or task order level IPRs concerning task order and performance-related issues as specified in individual task orders.

7.2 Briefings. The contractor shall prepare and present briefings to the Government on the results of efforts undertaken under this contract and individual task orders. The schedules and formats for

these briefings will be specified in individual task orders or as mutually agreed to between the contractor and the Task Monitor (TM).

7.3 Documentation. The contractor shall prepare and deliver documents and data as specified in individual task orders.

7.4 Meetings. The contractor shall attend and/or conduct meetings (i.e., technical interchange meetings (TIM)) as specified in individual task orders.

7.5 Data Item Descriptions (DIDs). This is a general contract laying the groundwork for more specific requirements in the task orders. Each task order will reference the below DIDs via sequence number in order to establish specific data requirements or identify additional data requirements (i.e., contractor format) as required. The DIDs are available during the course of the contract and are located at http://stinet.dtic.mil/str/dodiss4_fields.html
This list is not all-inclusive.

Sequence Number	Title	DID Number
A001	Information Systems Accreditation Document	DI-ADMN-80239
A002	Contract Summary Report	DI-ADMN-80447
A003	Revision to Existing Government Document	DI-ADMN-80925
A004	Conference Agenda	DI-ADMN-81249A
A005	Conference Minutes	DI-ADMN-81250A
A006	Conference Report	DI-ADMN-81308
A007	Progress Report (Studies)	DI-ADMN-81313
A008	Presentation Material	DI-ADMN-81373
A009	Contract Change Proposals (CCPS)	DI-ADMN-81401A
A010	Engineering Releasing Record (ERR)	DI-CMAN-80463C
A011	Configuration Audit Plan	DI-CMAN-80556A
A012	Engineering Change Proposal (ECP)	DI-CMAN-80639C
A013	Request for Deviations (RFD)	DI-CMAN-80640C
A014	Request for Waivers (RFW)	DI-CMAN-80641B
A015	Notice of Revision (NOR)	DI-CMAN-80642C
A016	Specification Change Notice (SCN)	DI-CMAN-80643C
A017	Contractor's Configuration Management Plan	DI-CMAN-80858B
A018	Configuration Audit Summary Report	DI-CMAN-81022C
A019	Installation Completion Notificaiton (ICN)	DI-CMAN-81245A
A020	Advance Change Study Notice (ACSN)	DI-CMAN-81246A
A021	Interface Control Management Data Report	DI-CMAN-81247A
A022	Interface Control Document (ICD)	DI-CMAN-81248A
A023	Configuration Status Accounting Information	DI-CMAN-81253A
A024	Configuration Item Documentation Recommendation	DI-CMAN-81293
A025	System/Segment Interface Control Specification	DI-CMAN-81314

A026	Cost Data Summary Report (DD Form 1921)	DI-FNCL-81565
A027	Functional Cost-Hour Report (DD Form 1921-1))	DI-FNCL-81566
A028	Progress Curve Report (DD Form 1921-2	DI-FNCL-81567A
A029	Performance and Cost Report	DI-FNCL-80912
A030	Logistic Support Analysis Plan	DI-ILSS-80531
A031	Training Materials	DI-ILSS-80872
A032	Training Program Development & Management Plan	DI-ILSS-81070
A033	Instructional Media Package	DI-ALSS-81526
A034	LSA-080, Bill of Materials	DI-ILSS-81169A
A035	Internal Contractor Technical Data	DI-ILSS-81309A
A036	Data Dictionary Directory -Metadata Product	DI-IPSC-80423
A037	Computer Software System Document	DI-IPSC-80942
A038	Software Development Plan (SDP)	DI-IPSC-81427A
A039	Software Installation Plan (SIP)	DI-IPSC-81428A
A040	Software Transition Plan (STRP)	DI-IPSC-81429A
A041	Operational Concept Description (OCD)	DI-IPSC-81430A
A042	System/Subsystem Specification (SS)	DI-IPSC-81431A
A043	System/Subsystem Design Description (SSDD)	DI-IPSC-81432A
A044	Software Requirement Specification (SRS)	DI-IPSC-81433A
A045	Interface Requirements Specification (IRS)	DI-IPSC-81434A
A046	Software Design Description (SDD)	DI-IPSC-81435A
A047	Interface Design Description (IDD)	DI-IPSC-81436A
A048	Database Design Description (DBDD)	DI-IPSC-81437A
A049	Software Test Plan (STP)	DI-IPSC-81438A
A050	Software Test Description (STD)	DI-IPSC-81439A
A051	Software Test Report (STR)	DI-IPSC-81440A
A052	Software Product Specification (SPS)	DI-IPSC-81441A
A053	Software Version Description (SVD)	DI-IPSC-81442A
A054	Software User's Manual (SUM)	DI-IPSC-81443A
A055	Software Center Operator Manual (SCOM)	DI-IPSC-81444A
A056	Software Input/Output Manual (SIOM)	DI-IPSC-81445A
A057	Computer Operation Manual (COM)	DI-IPSC-81446A
A058	Computer Programming Manual (CPM)	DI-IPSC-81447A
A059	Firmware Support Manual (FSM)	DI-IPSC-81448A
A060	Computer Software Product End Items	DI-MCCR-80700
A061	Design Specification	DI-MCCR-81344
A062	Security Features User's Guide	DI-MCCR-81349
A063	Management Plan	DI-MGMT-80004
A064	Site Preparation Requirements and Installation Plan	DI-MGMT-80033
A065	Task Assignment Plan	DI-MGMT-80057
A066	Contractor's Progress, Status and Management Report	DI-MGMT-80227

A067	Status Report	DI-MGMT-80368
A068	Project Planning Chart	DI-MGMT-80507A
A069	Program Progress Report	DI-MGMT-80555
A070	Program Plan	DI-MGMT-80909
A071	Operations Security (OPSEC) Plan	DI-MGMT-80934
A072	System Engineering Management Plan (SEMP)	DI-MGMT-81024
A073	Contract Work Breakdown Structure	DI-MGMT-81334
A074	Data Accession List	DI-MGMT-81453
A075	Cost Performance Report (CPR)	DI-MGMT-81466
A076	Cost/Schedule Status Report (C/SSR)	DI-MGMT-81467
A077	Contract Funds Status Report (CFSR)	DI-MGMT-81468
A078	Contract Data Status and Schedule Report	DI-MISC-80167A
A079	Technical Report -Study/Services	DI-MISC-80508A
A080	Scientific and Technical Reports	DI-MISC-80711A
A081	Implementation Plan	DI-MISC-80919
A082	Integrated Master Schedule (IMS)	DI-MISC-81183A
A083	Philosophy of Protection Report	DI-MISC-81348
A084	Site Survey Report (SSR)	DI-MISC-81381
A085	Test Plan	DI-NDTI-80566
A086	Test Procedure	DI-NDTI-80603
A087	Test/Inspection Reports	DI-NDTI-80809B
A088	Security Test Plan	DI-NDTI-81351
A089	Trusted Facility Manual	DI-TMSS-81352

7.6 Year 2000 (Y2K) Compliance. All IT products and services provided under the NexGen contracts shall be Y2K-compliant. The Y2K checklist, located at <http://www.disa.mil/cio/y2k/disa-plan-app-d-checklist.html>, shall be used throughout the testing, certification and validation process to aid functional, system and network managers to ensure system, network, and/or database is/are Y2K-compliant.

7.7 Specifications and Standards. IT requirements shall be satisfied with COTS, open-system based capabilities, and enabling products to the maximum extent practicable.

7.8 Section 508 Compliance. Section 508 compliance will be addressed in each task order, and may or not may apply based on the requirements of the task order.

8. TRAVEL. The contractor shall perform travel, both within and outside the United States, to include local travel, as required by the contract and as stated in individual task orders. The individual TM shall approve travel requirements.