



2.3.3 Security Management [L.34.2.3.3, C.3.3.2]

Security is one of the most important attributes of each service provided to the Federal government. Security and protection for AT&T services are also a key mandate within AT&T, as they are considered the cornerstone of AT&T's services and service delivery. This security policy emphasizes that customer data and communications will be safeguarded from unauthorized access, disclosure, corruption or disruption of service, and is applicable to all service elements, systems, applications and workstations used to support Networx services provided by AT&T.

2.3.3.1 Security Plan [L.34.2.3.3, C.3.3.2.2.1]

The offeror shall provide a Security Plan that addresses how the offeror proposes to meet Government Security Management requirements specified in Section C.3.3.2, Security Management. The offeror shall structure the Security Plan according to requirements specified in Section C.3.3.2.4.2.1, Security Plan and Risks Assessment.

The Security Plan (Appendix C) provides a blueprint for safeguarding all AT&T service elements, systems, applications and workstations from unauthorized access, disclosure, corruption or disruption. The plan that has been provided with this proposal details how the Government's Security Management requirements are to be met, and describes the initiatives, processes and procedures administered by AT&T's security organizations worldwide for application of necessary security controls for the Government's Networx services.

The Security Plan also addresses in detail the functional elements as outlined by the General Services Administration (GSA) and illustrated in **Figure 2.3.3.1-1**.



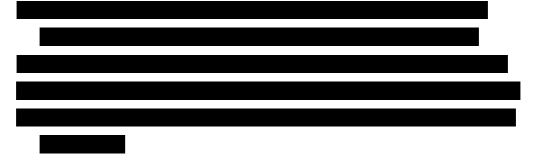
The plan is formatted to meet the National Institute of Standards and Technology's (NIST) SP 800-18 recommendations . An outline for Risk Assessment

formatted as



Figure 2.3.3.1-1: AT&T's Networx Security Plan. AT&T's Networx Security Plan provides GSA and Agencies a clear understanding and reliable expectation regarding how Networx related security issues are to be managed.

defined in the NIST SP 800-30 is attached to the Security Plan. AT&T also uses the following NIST special publications for reference and guidance in developing the Government's security plans:



The GSA will receive a Networx Security Plan at contract award (included with this proposal in Appendix C). A revised Security Plan, as well as a completed Risk Assessment for Networx services will be delivered within 30 days of the Notice to Proceed. The Security Plan is updated annually, or more frequently if security-significant system changes are made.

The offeror shall describe in the Security Plan its security management organization, resources, strategies, practices, policies, processes, procedures, tools, systems, reports and any other relevant capabilities to provide the Government with a high degree of confidence that the offeror has sound, effective, and adequate security management controls, technical controls, and operational controls that meet Government security management requirements.



To meet critical Government security requirements, comprehensive security
organizations are maintained at corporate and worldwide levels. These
organizations are dedicated
AT&T global network,
These organizations are further detailed in
Section 6, Supplemental Information, of the Security Plan (Appendix C).
Through these organizations, AT&T maintains a library of documents and
guidelines that establish corporate security policies regarding all aspects of
providing, maintaining, and managing AT&T delivered products and services
including AT&T Networx provided services. AT&T's
documents comprise this comprehensive security
policy library and are described in more detail in the Security Plan Section
6.1, Security Management Organization.
The GSA and subscribing Agencies can be confident that AT&T's Security
management within the Networx CPO will utilize these resources as needed
in support of their Networx services. The Networx CPO Security management
is available to support the GSA and subscribing Agencies around the clock.
The GSA and subscribing Agencies will benefit from AT&T's consistent
approach and strategies to delivering secure Networx services. The most

effective service security designs and implementations must be continuously

managed and analyzed for improvement, as illustrated in Figure 2.3.3.1-2.



AT&T views service security as a process driven by management and user awareness and supported by expert skills and advanced technology. System security is a fundamental concept in all network components, from workstations, transport devices, servers, applications and access methods. More details are provided in Section 6 of the Security Plan.



Figure 2.3.3.1-2: AT&T's Continuous analysis process. Continuous analysis of Government assets to apply best security practices.

The Networx Security Plan is designed to protect the Government's and AT&T's services, information, resources, and systems from fraudulent usage, unauthorized access, or service disruption, including the protection of Networx services from other Government departments and Agencies. The

detailed Security Plans will allow the GSA and subscribing Agencies to know how the Networx services are protected as well as what processes will be engaged in the event of a security issue.

The contractor's Security Plan shall describe in detail how the contractor shall satisfy the security requirements as identified in Sections C.3.3.2, Security Management, and all its subsections, including how improved security-related processes and technologies are to be incorporated into the contract as they become commercially available. See Section C.3.3.2.4.2.1, Security Plan and Risks Assessment for report requirements. [C.3.3.2.2.1]

As illustrated in **Figure 2.3.3.1-1**, the Security Plan (Appendix C) details how the Government's Security Management requirements are to be met. There are six major sections in the Security Plan. Sections 1-5 of the Security Plan follow the format suggested in NIST Special Publication 800-18.

SECURITY PLAN SECTIONS

- System Identification
- Sensitivity of Information Handled
- Management Controls
- Operational Controls
- Technical Controls
- Supplemental Information



Section 6 of the Security Plan details the areas the GSA has specifically required in the Security Plan, including how improved security-related processes and technologies are to be incorporated into Networx as they become commercially available and implemented within AT&T's service delivery platforms.

The contractor's Security Plan shall include a description of the approach, scope, and methodology of Networx services security risk analyses that shall be undertaken by the contractor throughout the life of the contract. [C.3.3.2.2.1]

AT&T pays the highest attention to protecting its network resources and its customers' information and services. The level of security enables AT&T to deliver service that consistently meets or exceeds customers' expectations, as well as applicable regulatory and legal requirements.

As part of the activities and resources devoted to fostering network security, AT&T maintains a staff of several hundred professionals dedicated to network security. Extensive documented security policies govern the security of the network, systems, and applications within the AT&T worldwide network. The policies are complemented by operational processes and procedures, reviews, assessments and audits. AT&T uses a comprehensive set of company designed and off-the-shelf tools and technologies to detect, prevent, analyze and respond to security vulnerabilities and attacks. A detailed description of the approach, scope, and methodology of Networx services security risk analyses that AT&T performs throughout the life of the contract is found in Section 3.1 of the Security Plan (Appendix C), Risk Assessment and Management and Section 6.6, Security Risk Management.

The contractor's Security Plan shall comply with the requirements of Section C.2.1.11, Networx Security.

[C.3.3.2.2.1]

Comprehensive AT&T

contain

industry leading standards for deploying network and physical security controls.

AT&T currently supports



networks at
Security engineers have expert
knowledge of Government security requirements outlined in Office of
Management and Budget (OMB) A-130, Federal Information Security
Management Act (FISMA), and the NIST 800 series of Special Publications, as
well as National Information Assurance Certification and Accreditation Process
(NIACAP) and Defense Information Technology Security Certification and
Accreditation Process (DITSCAP) methodologies and agency-specific
requirements.
Many network solutions are granted Authority to Operate (ATO) as a result of
the Certification and Accreditation (C&A) process executed by the AT&T
security team. AT&T is well versed in the deployment of enhanced security
mechanisms for data networks, such as multi-layered security applications
encryptions as well as Federal Information Processing
Standards (FIPS) compliant encryption mechanisms. More information
regarding AT&T's approach to these requirements is further detailed
throughout the Security Plan (Appendix C).
This extensive body of knowledge and capabilities meets or exceeds the
requirements of the Standards and Guidelines indicated in section C.2.1.11 of
the RFP, and is applicable to all service elements, systems, applications and
workstations used to support AT&T provided Networx services.
The contractor shall describe in the Security Plan its Networx security management organization, and how it will interface and coordinate with suppliers, vendors, partners, and Government to address Networx security related matters. [C.3.3.2.2.1]
Networx security is managed in the CPO by the Networx Security Manager. The
Networx Security Manager, AT&T



Networx services	
GSA's and Agencies'	
Networx Security Plan (Appendix C)	. The Security Manager is
to the	GSA and appropriate Agencies.
The Networx Security manager	
has the support of all of AT&T's	
security organizations as	
described in this section. Within	
the Networx CPO, as illustrated in	
Figure 2.3.3.1-3, the Security	
Manager has support from other	
functional areas and the authority	
to acquire information from these	
support teams as required for	
specific investigations, tasks, or	
emergencies.	
Exacting security requirements	
are required when establishing	
relationships with subcontractors	
and suppliers. Subcontractors and	
suppliers must adhere to	Figure 2.3.3.1-3: The Security Manager within AT&T's CPO. The
appropriate policies and	
requirements necessary to secure A	T&T networks, systems, and the data stored
or traveling through the infrastructur	e.
	AT&T's
AT&T	's

AT&T's

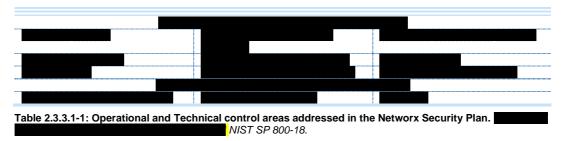


to maintain the GSA's and subscribing

Agencies' security requirements for delivering Networx services. The Government can be confident that AT&T's integrated products, services, and solutions will be delivered with defined and consistent security processes established and managed from end-to-end.

The contractor shall describe in the Security Plan the management, technical and operational controls as defined in NIST SP 800-18, that will be employed to ensure the integrity, confidentiality, and availability of Government information and data that is transported and/or stored by Networx services, Networx OSS, databases, or handled manually at contractor's facilities. [C.3.3.2.2.1]

The Networx Security Plan (Appendix C) details both Operational and Technical controls employed to maintain proper security relevant to all AT&T provided Networx services. **Table 2.3.3.1-1** identifies the operational and technical controls, as defined in NIST SP 800-18 and detailed in the Networx Security Plan.



The Operational and Technical controls are detailed in Sections 4 and 5 of the Security Plan for all Networx services.

The contractor shall describe in the Security Plan how it will communicate and educate its employees, vendors, and Government users its Networx security policies, practices, and procedures, and how it plans to develop and maintain overall security awareness among Networx stakeholders. [C.3.3.2.2.1]

Everyone with operational access to provisioned Networx services must be knowledgeable of acceptable rules of behavior for the service. The Government will find established policies and processes for proper education and continued awareness of current security for all Networx service stakeholders defined in Section 4.8, Security Awareness



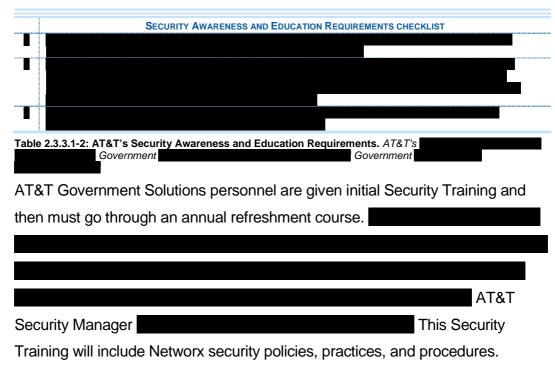




and Education. The awareness and education program focuses on Networx service usage and procedures for reporting security incidents.

The Networx Security Manager is responsible for presenting security awareness information to everyone with system access, as well as providing relevant Security Plan information, and the acceptable rules of behavior for the system. The security awareness and education program is also designed to inform the user on how to get assistance when having difficulty using the system or reporting security incidents.

The Networx Security Manager also oversees these requirements are met for all subcontractor employees contracted to work on Networx provided services. The subcontractor training and professional development is documented and monitored. **Table 2.3.3.1-2** is a checklist of the security awareness training responsibilities of the Networx Security Manager.





Networx Security requirements are incorporated into our subcontracts with vendors. Vendors must adhere to the same guidelines and AT&T's policies, practices, and procedures are communicated to them. As part of our on-going relationship with our vendor, updates to Security practices are communicated as needed.

Security awareness is communicated to Government users	
	The Networx
subscriber web-site will include information about Networx sec	curity policies,
practices, and procedures. Networx DAR and Operations train	ing will include an
optional module on Security awareness.	



AT&T's	
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non-AT8	kT
	Non-
AT&T	

2.3.3.2 Security Management Capabilities [L.34.2.3.3]

The offeror shall describe its security management capabilities to provide the Government a high degree of confidence that the offeror will be a strong partner that understands the challenges that the Government faces in:

(a) Ensuring integrity, confidentiality, and availability of Government information given the wide range of Networx services, users, and geographical locations



2005 Winner

AT&T Internet Protect Honored with Stevie Award for Best New Product or Service in Telecommunications.

> --The American Business Awards, 2005



World Communication Awards: 'Best Technology Foresight' for AT&T Internet Protect.

October 2004

Stratecast Partners

AT&T receives the "2005 Best-in-Class NSP Managed Security Services Award" for being "best positioned to serve the broadest and largest number of customers and create strategic differentiation for the company (either as AT&T or the merged AT&T and SBC) in the evolving communications industry."

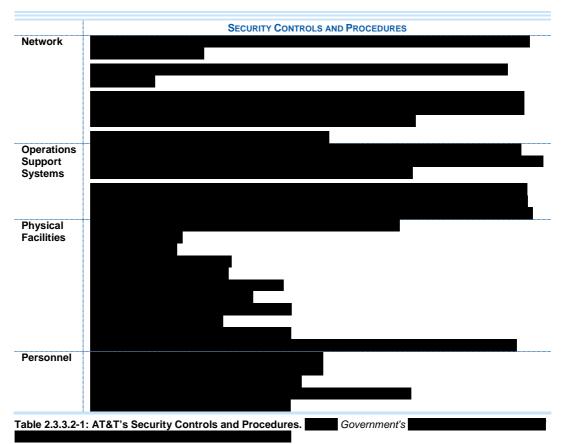
April 2005





AT&T has a reputation as an industry leader in network security. The Government's Networx services, information, and information-processing resources are protected against threats, attacks, or failures of systems in accordance with these industry leading practices and technology. AT&T relies





These controls, in conjunction with risk analysis and a set of detailed security services, maintain the security of AT&T's offered services and service delivery infrastructure. The Security Plan (Appendix C) details the specific risk



management processes and controls for securing these Government services, as required by the GSA and Customer Agency.

(b) Meeting the security needs of a large and heterogeneous geographically distributed user community AT&T is truly a global company that reaches around the world with a company-owned network backbone. The Government can be confident that AT&T's stringent security policies are consistently followed throughout the reach of its network. With Federal Government customers and of the S&P 500 companies as customers domestically and around the world, AT&T is prepared for most any required solution customized or standard to meet the Government's specific needs.

The Security Plan implemented by AT&T (Appendix C) is designed to reduce vulnerabilities, adapt to new threats, and help ensure that Networx security management capabilities are maintained to the latest standards and practices. The life cycle approach, as defined in NIST 800-14, is embedded into the Security Plan and will be applied to all future enhancements, new deployments and configuration changes for systems, networks and services contracted under Networx.





Government	
Agencies, AT&T	
Figure 2.3.3.2-1	
1 1941 0 2.0.0.2	
	Figure 2.3.3.2-1: AT&T Provides various Custom Solutions
	buse, and if applicable, prosecuting the perpetrators
The Government	AT&T's





records the fraud tracking efforts of AT&T's fraud
analysts. In this way, can automatically monitor the Government's
Networx call details for
AT&T's is one of
the world's largest databases, used for storing call detail information on every call placed over the AT&T telephone network. This massive database is accessed by the GFMS and other fraud detection tools for automated analysis and identification of call patterns and irregularities as described above.
AT&T's security organization actively responds to subpoenas and assists various law enforcement agencies in capturing and prosecuting criminals suspected of committing telecommunications abuse and fraud.
AT&T
AT&T's



The Government has an extensive history with AT&T customized systems including some of the most stringent and uniquely detailed security requirements designed for service delivery. AT&T Labs and the solution development engineers work together to provide innovative service solutions created to meet the Government's specific security requirements. The ability to maintain and update the security policy to the Government's evolving requirements is built into each and every solution. Some examples of unique and highly secure solutions are listed in **Table 2.3.3.2-2**.

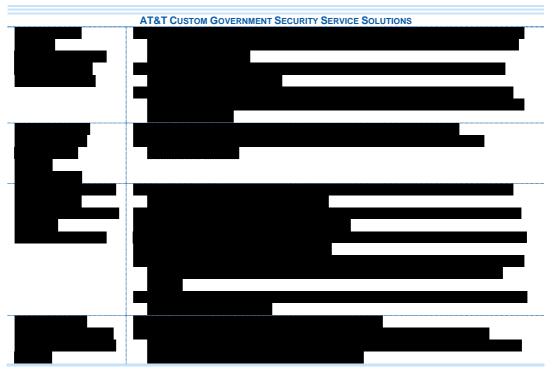


Table 2.3.3.2-2: AT&T Custom Government Security Service Solutions. *AT&T has designed many diverse secured communications solutions meeting unique and specific Government requirements.*

The Government can be confident of efforts to incorporate new or updated security standards and directives in the Networx service offerings and existing Agency solutions. AT&T maintains a leadership role in providing secure network services and participates in many Government and quasi-government organizations in the United States. By participating in these

NETWORX UNIVERSAL

SOLICITATION TQC-JTB-05-0001



organizations, AT&T is able to influence and track industry trends, capabilities and newer or evolving Government requirements.

(e) Protecting Government operations and ensuring continuity of Government services.

AT&T PARTICIPATES WITH GOVERNMENT SECURITY ORGANIZATIONS

- National Coordinating Center (NCC) of Homeland Security Telecommunications.
- Network Reliability and Interoperability Council (NRIC)
- National Infrastructure Protection Center (NIPC)
- Information Technology Information Sharing and Analysis Center (IT-ISAC)
- Network Reliability Steering Committee (NRSC)
- The National Telecommunications and Information Administrations (NTIA)
- National Communications System (NCS)
- National Security Telecommunications Advisory Committee (NSTAC)

The Government will benefit from one of the industry's most rigorous and thorough approaches to contingency planning and disaster recovery with AT&T's National Disaster Recovery organization. For years AT&T has continuously planned for undisrupted network operations during such natural disasters as hurricanes and floods. (For more detailed information on AT&T's Disaster Recovery capabilities, see section 2.3.4 of this proposal.) In addition to these planning efforts, within the United States, AT&T has cooperated with the Federal Government's National Special Security Events (NSSE) process since its creation in 1998, developing a disciplined contingency plan for each event that is NSSE designated.

Events are classified as NSSE based on a combination of factors,	

The Government will receive a multi-phased approach to contingency planning for NSSEs as well as other significant events. The experience and skills of the NDR team in restoring AT&T services in the event of a disaster is





utilized for a detailed and thorough contingency planning process.

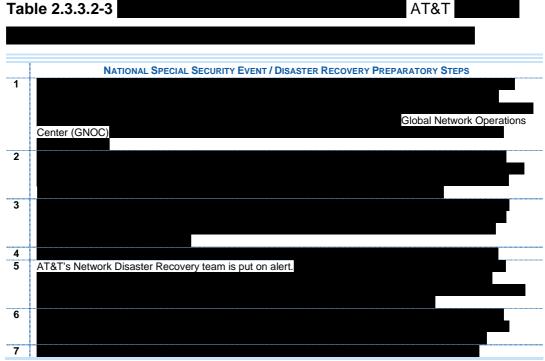


Table 2.3.3.2-3: AT&T's NDR Preparatory Steps in NSSE Planning. Strategic and thoughtful planning is essential to ensuring service availability for National Security events as well as Disaster Recovery.

(f) Ensuring National Security

The GSA and subscribing Agencies benefit from AT&T's decades of experience working with Government Agencies and commercial enterprises on information security planning, implementation, and management. AT&T provides a wide range of security engineering and professional services to federal civilian and defense Government agencies, as well as State Government organizations providing National Security. AT&T's architects and engineers provide security solutions that:







The Government has experienced AT&T's expertise in providing high profile security solutions, including:

 Seventy years experience in supporting classified and non-classified government projects



(g) Reducing vulnerabilities, adapting to new threats, and ensuring that Networx security management capabilities are maintained to latest standards and practices

A proactive approach is maintained to improve the overall security of any system contracted by the Government under the Networx contract throughout the system development life cycle. The Security Plan (Appendix C), Section 3.4 Planning for Security in the Life Cycle, provides details on the **Cycle** (**Table**)

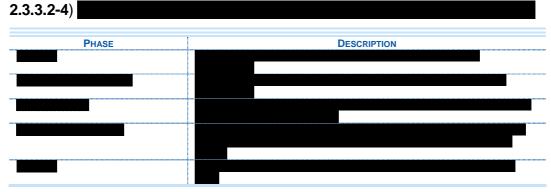
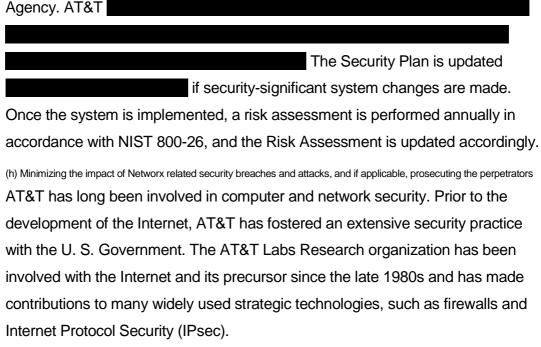


Table 2.3.3.2-4: Five Phases of System Life Cycle. Security is a priority through all phases of a system life cycle. In accordance with NIST Special Publication 800-18, Guide for Developing Security Plans for Information Technology Systems, each phase of the system development life cycle is included in the risk assessment in order to identify new threats and vulnerabilities and to implement mitigation controls as countermeasures. Additionally, there is flexibility in security planning in each phase to allow security requirements to be updated in response to new



threats and vulnerabilities identified as new technologies evolve and are implemented as part of an on-going and proactive security program.

The effectiveness of security controls is reviewed and assessed in each phase of the life cycle on a recurring basis as agreed by the GSA and Customer



AT&T Labs researchers have actively participated in the development of many facets of security technology through the Internet Engineering Task Force (IETF) and the Association for Computer Machinery's Special Interest Group on Data Communications (ACM-SIGCOMM) as well as serving the Internet Corporation for Assigned Names and Numbers (ICANN) and participating in security-related study committees as part of the Network Reliability and Interoperability Council (NRIC). Deep commitment to rigorous security discipline embedded throughout all processes, from desktop management to network and services is an extensive benefit for the Government.





takes to successfully protect the network and computing infrastruct	
customers. AT&T's expertise was demonstrated by its ability to war	rd off the
	for millions of
users on hundreds of	
AT&T's	

AT&T adheres to the core security principles, illustrated in **Figure 2.3.3.2-2**, to address the key vulnerabilities.

Figure 2.3.3.2-2: Defense Strategies of IP Networks.

AT&T's

Security consultants stay abreast of current issues through participation in news groups and security forums as well as continuous education and actual resolution of client security issues. This breadth of expertise is a direct benefit to the Government in protection of Government services.





AT&T's Network security incidents include incidents such as, intrusions (e.g. attempted hacking, cracking, or other unauthorized access), denial of service attacks, spam attacks, and viruses or worms. is responsible for performing investigative techniques to ascertain the severity and motive behind network abuse After thorough investigation and review to determine customer involvement, appropriate actions are taken with regard to the Acceptable Use Policy and the Terms and Conditions of Use. If a user breaks the rules, warnings are issued and/or suspensions are implemented. When local or federal laws are broken, AT&T proactively engages law enforcement and fully supports investigation and prosecution activity. Quick action on these events further enforces and protects the Government's

2.3.3.3 Information Security [C.3.3.2.2.4]

The contractor shall ensure confidentiality of data. [C.3.3.2.2.4]

Networx services.

The confidentiality, as defined in FIPS publication 199, of the Government's data is protected within the infrastructure through operational and technical controls as outlined in section 2.3.3.1 and as detailed in the Security Plan (Appendix C). These controls are in place to allow access to data only by those stakeholders authorized to access it.



Protecting the Government's information v	vithin a network infrastructure,
regardless of the medium in which it reside	es, is an integral part of each
business plan, system design, system/app	lication implementation, and
associated operation.	
are techniques employed to sa	afeguard Government's data.
Privacy of customer communications is fur	ndamental. The commitment to
safeguard privacy of customer communica	ations takes on added significance
as the global network for voice, data, and	· ·
and becomes more interactive and access	·
CUSTOMER PRIVACY AT&T does not:	AT&T's
Disclose the location of equipment, circuits, trunks, or cables to any unauthorized person.	711010
Tamper with or intrude upon any voice, video, data, or fax transmission.	
Listen to or repeat customers' conversations or communications, or, except in accordance with law, permit either to be monitored or recorded.	
 Except in accordance with law, install or permit anyone to install any device that enables someone to listen to, observe, or determine that a communication has occurred. 	
Allow employee access to customer information except on a need to know basis.	AT&T
Except as disclosed, monitor service calls.	
	AT&T's
Government's	
Wireless Service	





Encryption protects information about user identities. Prior to encryption, the network protects user identities by minimizing transmission of user identity information, and by using temporary identifiers.

The contractor shall follow Federal Government-accepted security principles and practices per NIST SP 800-14, or better, to protect Government information in the contractor's infrastructure from disclosure to unauthorized persons. [C.3.3.2.2.4]

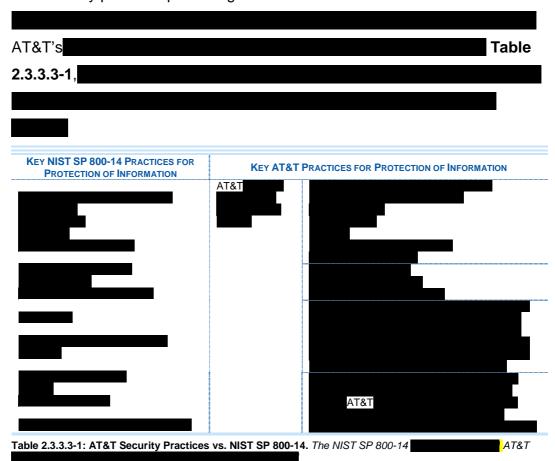
Security is an imperative and integral part of AT&T's services delivered worldwide, and this corporate mandate also commits to protecting Networx information and resources from unauthorized access, disclosure, corruption or disruption of service. The security organizations within corporate and worldwide operational units incorporate the recommended NIST SP 800-14





principles and practices to develop and maintain these policies as appropriate.

The security practices protecting Government information in AT&T's



Security compliance is central to AT&T's culture and is a condition for employment. Each management and staff employee is aware of this responsibility and is required to comply on an ongoing basis. AT&T's Security Center of Excellence and Corporate Security organizations manage and maintain corporate responsibility for enforcing these policies. The Security Manager, located in the CPO, manages these requirements for AT&T provided Networx services.



The contractor shall ensure data integrity. [C.3.3.2.2.4]

System and process design and development, as well as virus and intrusion protection, are primary areas of focus for protecting the Government's data. Designing and developing the operational support systems infrastructure and automated processes with the priority of protecting customer data from vulnerabilities is an essential mandate for AT&T and maximizes data integrity.

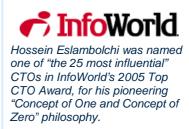
AT&T emphasizes the protection of the support systems from viruses, worms and other disruptive influences to maintain data integrity and availability. In support of this effort, AT&T takes the following steps with individual and corporate access equipment to or service providing systems:

A TO T	
AT&T	
	
Company authorized	
Company admonact	Company
	Company
Company	
<u> </u>	
Company	



Under the development leadership of AT&T Labs, the operational support systems are being driven to a Concept of One

The Concept of One, highlighted in **Figure 2.3.3.3-1**, essentially directs that each of the services' support systems, such as billing, inventory, fault



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management, and provisioning be converged over time until one common set of systems will handle multiple network, operations and service domains. This concept enables consistency and coordination in service delivery for all Networx services while improving data integrity with the enterprise-wide database architecture. Consequently, the Government gains more reliable service with fewer errors.

CONCEPT OF ONE - Foundation for Information Systems Data Integrity

Modular Platform
 Policy-based configurations & operational data store
 Shared databases of record with common data model
 Networx Services

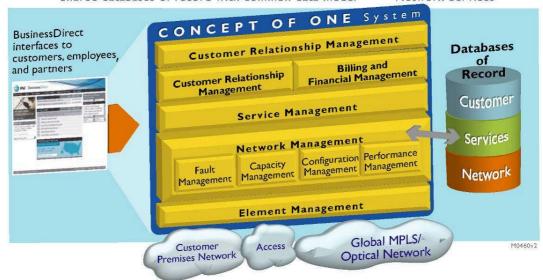
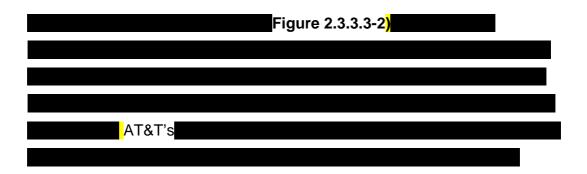


Figure 2.3.3.3-1: AT&T's "Concept of One" approach to support systems development. More streamlined support system development equates to improved data integrity.









Customer Satisfaction

Figure 2.3.3.3-2: Concept of AT&T's

AT&T's MPLS Network exemplifies these concepts by converging services within a single network and helping to ensure data integrity with how traffic is separated as well as the use of automated perimeter security devices. The MPLS standard is specifically designed to prevent unauthorized disclosure or modification of Virtual Private Network traffic by other users of the MPLS Network. Seamless integration and automation has been employed to manage and protect the traffic within the network.

The contractor shall protect the Government information from unauthorized modification while contained within the contractor's infrastructure. [C.3.3.2.2.4]

Integrity controls protect the system and the data processed, stored, and/or transmitted from accidental or malicious alteration or destruction. Integrity





controls also provide assurance to the Government that the information
meets quality requirements and has not been altered. Validation controls are
tests used to determine compliance with security specifications and
requirements.
Message Integrity
Use of Mobile Code





The contractor shall ensure identification and authentication of personnel involved in the operation and management of Networx services. [C.3.3.2.2.4]
The controls required to mitigate the risk of losing confidentiality resulting
from misuse of, or unauthorized access to the system, begin with
identification and authentication controls. Controls for access to Government
data and Networx services information are determined on an individual basis
and presented as part of the overall solution.
explained in greater detail in section 2.3.3.4.),
GSA o
Agency
The contractor shall identify and authenticate contractor personnel and Government personnel who are authorized to place orders or to access network management information. [C.3.3.2.2.4]
Each person with privileged access to a Networx service or support system is
granted access based upon the assigned responsibilities. The user's access
is restricted to the minimum permissions necessary to perform normal or
routine assigned tasks. Critical functions and responsibilities for
administrating and managing these systems are optimally divided among
different individuals to maintain consistent availability of these functions.





The Networx Security manager,
Networx Project Manager,
Government users accessing AT&T's Business Direct® web based access porta
to place orders or perform other online Networx management functions
to place orders or perform other ordine Network management functions
yearly the AT&T Networx Security Manager Networx Project
Manager
BusinessDirect accounts, by design, are managed
Agency the designated Agency Administrator.
Agency Administrator.
The contractor shall protect its infrastructure from any information threats or attacks (e.g., threats from hackers, criminals, and terrorist activities) carried out by domestic or non-domestic entities including subcontractors. [C.3.3.2.2.4]
AT&T takes a proactive and dynamic approach to managing the security of
our network and supporting infrastructure.





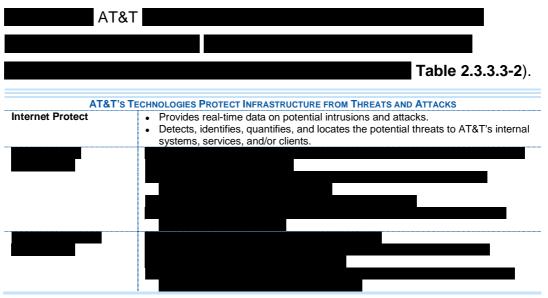


Table 2.3.3.3-2: Proprietary Technologies Protecting AT&T's Infrastructure. These unique and innovative technologies are effective in protecting the Government's information.

This unique, industry-leading technology has repeatedly proven its ability to identify the full range of cyber threats as they are happening. AT&T's Security Management Team will work urgently and diligently with the other elements of the Global Network Operations Center to respond to and mitigate identified threats or attacks.

2.3.3.4 Information Assurance [C.3.3.2.2.5]

The contractor shall adhere to Federal Government accepted security principles and practices per NIST SP 800-14, or better, to protect the databases, OSS, and information processing systems that are critical for the continuous, reliable operation of its Networx services. [C.3.3.2.2.5]

To provide the discipline necessary to maintain a consistently secure and reliable infrastructure, AT&T's

AT&T's

This comprehensive library of policies and

directives meets or exceeds NIST SP 800-14, and is applicable to all service elements, including system databases,



, and information processing systems critical for the continuous, reliable operation of AT&T provided Networx services.

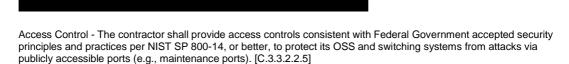
The contractor shall protect against unauthorized access to these databases, OSS, and information processing systems by entry from external communications devices. [C.3.3.2.2.5]

AT&T protects against unauthorized access to its databases, OSS, and information processing systems by deploying internal and external access control mechanisms to limit access to Networx databases and systems and to support the continuous and reliable operations of Networx services. AT&T will use a combination of access control mechanisms,

to restrict system access. All AT&T offered Networx services are protected in the same manner.

Information systems shall include but not be limited to the OSS, audio and video teleconferencing reservation systems, repositories of Agency network configuration, repositories of users' identification and authorization information and Call Detail Records (CDRs). [C.3.3.2.2.5]

AT&T's information systems in support of Networx includes all ordering, billing, inventory, network configuration, performance and service usage reporting, and trouble and complaint handling applications accessed through AT&T's secure Networx web site.



AT&T provides access controls consistent with Federal Government accepted security principles and practices per NIST SP 800-14, or better, to protect its OSS and switching systems from attacks via publicly accessible ports.

NETWORX UNIVERSAL

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"How To Open The Kimono Safely – AT&T has used a layered approach to building a secure customer access system"

The ability to segregate allows AT&T to treat customer groups differently, so specific groups would get access to AT&T's systems using different segments of different zones. "Every zone segment has its own intrusion detection, its own application firewall," says Eslambolchi. AT&T protects customer data by providing the authenticated access through HTTPS or SSL, and authorization and encryption vary by customer. "There are different levels of security across the platform," says Eslambolchi, who also subjects the system to what he calls self-inflicted "ethical hacking" to make sure it can withstand hacking attempts by outsiders. BY ALICE DRAGOON Feb. 15, 2005

System Access Controls

The operations interface to network elements and access to operations support systems are provided through a dedicated operations network.

Resource Access Controls

Persons with authorized access to operations support systems are restricted
to authorized activities by various access control mechanisms,
AT&T AT&T
Government
access to BusinessDirect. AT&T works with each Government
Agency to establish a "company administrator" for the Business Direct IDs.
Agency
Agency
Agency
BusinessDirect
BusinessDirect