Verisign DNSSEC Practice Statement for TLD/GTLD Zone

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Abstract

This document is the DNSSEC Practice Statement (DPS) for the TLD/GTLD Zones. It states the practices and provisions that are employed in providing TLD/GTLD Zone signing and zone distribution functions, such as issuing, managing, changing, and distributing Domain Name System (DNS) keys, for the TLD/GTLD Zone service. Verisign is either (1) the delegated Registry Operator for the TLD/GTLD Zones under contract with the Internet Corporation for Assigned Names and Numbers(ICANN), or (2) operating back end registry services under contract to the Registry Operator who has designated Verisign as the Technical Contact in Internet Assigned Numbers Authority's (IANA) Root Zone Database. The TLD/GTLD Zones operated by Verisign are listed in the auxiliary document "Verisign Operated TLD/GLD Zones".

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1 INTRODUCTION

This document is the Verisign DPS for the TLD/GTLD Zone. It states the practices and provisions that are employed in providing TLD/GTLD Zone signing and zone distribution functions, such as issuing, managing, changing, and distributing DNS keys, for the TLD/GTLD Zone service.

1.1 Overview

The Domain Name System Security Extensions (DNSSEC) is a set of Internet Engineering Task Force (IETF) specifications for adding origin authentication, data integrity, and authenticated denial of existence to the DNS. DNSSEC provides a way for software to validate that DNS data have not been modified during Internet transit. This is done by incorporating public key cryptography into the DNS hierarchy to form a chain of trust originating at the Internet root.

DNS was not originally designed with strong security mechanisms to provide origin authentication, data integrity, and authenticated denial of existence of DNS data. Over the years, a number of vulnerabilities have been discovered that threaten the reliability and trustworthiness of the system. DNSSEC addresses these vulnerabilities by adding origin authentication, data integrity and authenticated denial of existence capabilities to the DNS.

This DPS is specifically applicable to all DNSSEC related operations performed by Verisign for the TLD/GTLD Zone. More generally, this document will provide the governing policies and provisions as they relate to the management, security, and technical specifications of the TLD/GTLD Zone Key Signing Key (KSK) and Zone Signing Key (ZSK). This document will be under the control and management of Verisign. Information in this document and subsequent documents will be made public as required.

This DPS is only one of a set of documents relevant to Verisign's management of the TLD/GTLD Zone KSK and ZSK. Other documents include: ancillary, confidential security and operational documents that supplement this DPS by providing more detailed requirements, such as:

- The Verisign Physical Security Policy Describes physical and personnel security requirements;
- The Verisign Information Security Policy Describes telecommunications and logical security requirements:
- The Verisign Cryptographic Key Management Guide Describes cryptographic key management security; and
- The Verisign Cryptographic Key Ceremony Guide Describes the procedures used to generate cryptographic keys.

In many instances, this DPS refers to one or more of the above ancillary documents for specific, detailed practices. These ancillary documents are Verisign confidential and proprietary information and will not be publically disclosed.

1.2 Document Name and Identification

Verisign DNSSEC Practice Statement for TLD/GTLD Zone

1.3 Community and Applicability

1.3.1 TLD/GTLD Zone Manager

The TLD/GTLD Zone manager is Verisign.

1.3.2 TLD/GTLD Zone Administrator

The TLD/GTLD Zone administrator is Verisign.

1.3.3 TLD/GTLD Zone Maintainer

The TLD/GTLD Zone maintainer is Verisign.

1.3.4 TLD/GTLD Server Operator

The TLD/GTLD Zone operator is Verisign.

1.3.5 TLD/GTLD Zone Key Signing Key Operator

The TLD/GTLD Zone KSK operator is Verisign. The TLD/GTLD Zone KSK operator is responsible for:

- 1) generating and protecting the private component of the TLD/GTLD KSK,
- securely importing public key components from the TLD/GTLD Zone ZSK operator,
 authenticating and validating the public TLD/GTLD ZSK keyset,
- 4) securely signing the TLD/GTLD KSK and ZSK keyset (i.e., all DNSKEY records),
- 5) securely exporting the TLD/GTLD KSK public key components,
- 6) securely transmitting the signed TLD/GTLD DNSKEY resource record set (RRset) to the TLD/GTLD Zone ZSK operator,
- 7) creating a Delegation Signer (DS) record from the KSK public key and preparing it for the TLD/GTLD registry of record,
- 8) The TLD/GTLD registry of record will submit this to IANA for insertion into the Root Zone, and
- 9) issuing an emergency key rollover within a reasonable amount of time if any KSK associated with the zone is lost or suspected to be compromised.

1.3.6 TLD/GTLD Zone Zone Signing Key Operator

The TLD/GTLD Zone ZSK operator is Verisign. The TLD/GTLD Zone ZSK operator is responsible for:

- 1) generating and protecting the private component of the TLD/GTLD ZSK,
- 2) securely exporting and transmitting the public TLD/GTLD ZSK component to the TLD/GTLD Zone KSK operator,
- 3) securely importing the signed TLD/GTLD DNSKEY RRset from the TLD/GTLD Zone KSK operator,
- 4) signing the TLD/GTLD Zone's authoritative resource records omitting the DNSKEY RRset, and
- 5) issuing an emergency key rollover within a reasonable amount of time if any ZSK associated with the zone is lost or suspected to be compromised.

1.3.7 Child Zone Manager

The child zone managers are trustees for the delegated domain, and as such are responsible for providing

their own DNS services and operating subordinate DNS servers. In regard to DNSSEC, the child zone manager is also responsible for:

- 1) generating the keys associated with the zone using a trustworthy method,
- 2) registering and maintaining the shorthand representations of its KSK (in the form of a DS Resource Record) in the parent zone to establish the chain of trust,
- 3) taking reasonable precautions to prevent any loss, disclosure or unauthorized use of the keys associated with the zone, and
- 4) issuing an emergency key rollover within a reasonable amount of time if any key associated with the zone is lost or suspected to be compromised.

1.4 Specification Administration

This DPS will be periodically reviewed and updated, as appropriate by the Verisign DNSSEC Policy Management Authority (PMA). The PMA is responsible for the management of this DPS and should be considered as the point of contact for all matters related to this DPS.

1.4.1 Specification Administration Organization

VeriSign, Inc. 12061 Bluemont Way Reston, VA 20190 USA

1.4.2 Contact Information

The DNSSEC Practices Manager
Verisign DNSSEC Policy Management Authority
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+1 (703) 948-3200 (voice)
+1 (703) 421-4873 (fax)
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1.4.3 Specification Change Procedures

Amendments to this DPS are made by the PMA. Amendments will be in the form of either a document containing an amended form of this DPS or an update. Amended versions and updates will be linked to the DNSSEC Practices Updates and Notices section of the Verisign Repository located at: http://www.verisign.com/en_US/repository/index.xhtml. Updates supersede any designated or conflicting provisions of the referenced version of this DPS. Verisign and the PMA reserve the right to amend this DPS without notification.

The PMA may solicit proposed amendments to this DPS from other Verisign subdomain participants. If the PMA considers such an amendment desirable, the PMA will approve the proposed amendment and the amended form of this DPS will be uploaded to the Verisign Repository. Notwithstanding anything in this DPS to the contrary, if the PMA believes that amendments to this DPS are immediately necessary to stop or prevent a breach of security, Verisign and the PMA are entitled to make such amendments that are effective immediately upon approval by the PMA.

2 PUBLICATION AND REPOSITORIES

2.1 Publication of Key Signing Keys

A hash of the public portion of the TLD/GTLD KSK will be published in the Root Zone.

2.2 Repositories

Verisign publishes this DPS in the repository section of Verisign's web site at: http://www.verisign.com/en_US/repository/index.xhtml.

2.3 Access Controls on Repositories

Information published in the repository portion of the Verisign web site is publicly accessible information. Read-only access to such information is unrestricted. Verisign has implemented logical and physical security measures to prevent unauthorized persons from adding, deleting, or modifying repository entries.

3 OPERATIONAL REQUIREMENTS

3.1 Meaning of Domain Names

DNSSEC provides mechanisms for ensuring that the origin of the DNS data is consistent with the information in the registry. It does not provide any way of determining the legal entity behind the domain name, or the relevance of the domain name itself.

3.2 Activation of DNSSEC for Child Zone

DNSSEC for a child zone is activated by the publication of a signed DS record for that child zone in the TLD/GTLD Zone. The DS record is a cryptographic shorthand representation, or hash, of the public portion of the child zone generated and controlled KSK. It will establish a chain of trust from the TLD/GTLD Zone to the child zone.

3.3 Identification and Authentication of Child Zone Manager

Verisign does not perform any verification of the identity and authority of any child zone manager as it only applies changes received from registrars.

3.4 Registration of Delegation Signer Records

Verisign applies changes to the TLD/GTLD Zone file based on requests from registrars.

3.5 Removal of Delegation Signer Records

The removal of DS records (stale or active) can only be requested by registrars.

4 FACILITY, MANAGEMENT, AND OPERATIONAL CONTROLS

4.1 Physical Controls

Verisign has implemented the Verisign Physical Security Policy, which supports the physical security requirements of this DPS. Compliance with these policies is included in Verisign's independent audit requirements described in section 7. Verisign's Physical Security Policy contains sensitive security information and is available only upon agreement with Verisign. An overview of the requirements is described below.

4.1.1 Site Location and Construction

Verisign DNSSEC operations are conducted within a physically protected environment that deters, prevents, and detects unauthorized use of, access to, or disclosure of sensitive information and systems, whether covert or overt. Verisign also maintains disaster recovery facilities for its DNSSEC operations. Verisign's disaster recovery facilities are protected by multiple tiers of physical security comparable to those of Verisign's primary facility.

4.1.2 Physical Access

Verisign DNSSEC systems are protected by a minimum of four tiers of physical security, with access to the lower tier required before gaining access to the higher tier. Progressively restrictive physical access privileges control access to each tier. Sensitive DNSSEC operational activity and any activity related to the lifecycle of the TLD/GTLD KSK and ZSK occurs within very restrictive physical tiers. Physical access is automatically logged and video recorded. Additional tiers enforce individual access control through the use of multi-factor authentication including biometrics. The physical security system includes additional tiers for key management security, which serve to protect both online and offline storage of hardware security modules (HSMs) and keying material. Areas used to create and store cryptographic material enforce dual control through the use of multi-factor authentication including biometrics. Online HSMs are protected through the use of locked cabinets. Offline HSMs are protected through the use of locked safes and containers. Access to HSMs and keying material is restricted in accordance with Verisign's segregation of duties requirements. The opening and closing of cabinets, safes, or containers in these tiers is logged for audit purposes.

4.1.3 Power and Air Conditioning

Verisign's secure facilities are equipped with primary and backup power systems to ensure continuous, uninterrupted access to electric power and heating/ventilation/air conditioning systems to control temperature and relative humidity.

4.1.4 Water Exposures

Verisign has taken reasonable measures to minimize the impact of water exposure to Verisign systems.

4.1.5 Fire Prevention and Protection

Verisign has taken reasonable precautions to prevent and be able to extinguish fires or other damaging exposure to flame or smoke. Verisign's fire prevention and protection measures have been designed to comply with local fire safety regulations.

4.1.6 Media Storage

All media containing production software data, as well as audit, archive, or backup information are stored within Verisign facilities or in a secure off-site storage facility with appropriate physical and logical access controls designed to limit access to authorized personnel and protect such media from accidental damage (e.g., water, fire, and electromagnetic).

4.1.7 Waste Disposal

Sensitive documents and materials are shredded before disposal. Media used to collect or transmit sensitive information are rendered unreadable before disposal. Cryptographic devices are physically destroyed or zeroized in accordance with the manufacturers' guidance prior to disposal. Other waste is disposed of in accordance with Verisign's normal waste disposal requirements.

4.1.8 Off-Site Backup

Verisign performs routine backups of critical system data, audit log data, and other sensitive information. Off-site backup media are stored in a physically secure manner using a bonded third party storage facility and/or Verisign's disaster recovery facility(ies).

4.2 Procedural Controls

4.2.1 Trusted Persons

Trusted Persons include all employees, contractors, and consultants that have access to or control cryptographic operations that may materially affect:

- generation and protection of the private component of the TLD/GTLD Zone KSK,
- secure export or import of any public components, or
- generation and signing of zone file data.

Trusted Persons include, but are not limited to:

- Naming Provisioning and Resolution Operations personnel,
- Cryptographic Business Operations personnel,
- security personnel,
- system administration personnel,
- designated engineering personnel, and
- executives who are designated to manage infrastructural trustworthiness.

Verisign considers the categories of personnel identified in this section as Trusted Persons. Personnel seeking to become Trusted Persons must successfully complete the screening requirements set out in section 4.3.2 of this DPS.

4.2.2 Number of Persons Required Per Task

Verisign has established, maintains, and enforces rigorous control procedures to ensure the segregation of duties based on job responsibility and to ensure that multiple Trusted Persons are required to perform sensitive tasks.

The most sensitive tasks, such as access to and management of cryptographic hardware (i.e., HSMs) and associated key material require multiple Trusted Persons. These internal control procedures are designed to ensure that, at a minimum, two trusted personnel are required to have either physical or logical access to the device.

Access to cryptographic hardware is strictly controlled by multiple Trusted Persons throughout its lifecycle, from incoming receipt and inspection to final logical and/or physical destruction. Once an HSM is activated with operational keys, further access controls are invoked to maintain split control over both physical and logical access to the device. Persons with physical access to HSMs do not hold Secret Shares and vice versa.

4.2.3 Identification and Authentication for Each Role

For all personnel seeking to become Trusted Persons, verification of identity is performed through the personal (physical) presence of such personnel before Trusted Persons performing Verisign Human Resource or security functions and a check of well-recognized forms of identification (e.g., passports and driver's licenses). Identity is further confirmed through the background checking procedures in DPS section 4.3. Verisign ensures that personnel have achieved Trusted Persons status and departmental approval has been given before such personnel are:

- issued access devices and granted access to the required facilities, or
- issued electronic credentials to access and perform specific functions on Verisign IT systems.

4.2.4 Tasks Requiring Separation of Duties

Tasks requiring separation of duties include, but are not limited to, the generation, management, or destruction of TLD/GTLD Zone DNSSEC key material.

Designated audit personnel may not participate in the multi-person control for the TLD/GTLD KSK or ZSK.

4.3 Personnel Controls

4.3.1 Qualifications, Experience, and Clearance Requirements

Verisign requires that personnel seeking to become Trusted Persons present proof of the requisite background, qualifications, and experience needed to perform their prospective job responsibilities competently and satisfactorily, as well as proof of any government clearances or proof of any citizenship, necessary to perform operations under government contracts.

4.3.2 Background Check Procedures

All personnel with access to any cryptographic component used with the TLD/GTLD Zone signing process are required to pass a Verisign background check extending back at least three years.

Prior to commencement of employment as a Trusted Person, Verisign conducts background checks that include the following:

- confirmation of previous employment,
- check of professional references,
- confirmation of the highest or most relevant educational degree obtained,
- check of credit/financial records to the extent allowed by national laws for the individual's country of residence.

- search of criminal records (local, state or provincial, and national),
- search of driver's license records, and
- search of Social Security Administration records.

To the extent that any of the requirements imposed by this section cannot be met due to a prohibition or limitation in local law or other circumstances, Verisign will utilize a substitute investigative technique permitted by law that provides substantially similar information, including, but not limited to, obtaining a background check performed by the applicable governmental agency.

The factors revealed in a background check that may be considered grounds for rejecting candidates for roles requiring Trusted Persons or for taking action against an existing Trusted Person generally include, but are not limited to, the following:

- misrepresentations made by the candidate or Trusted Person,
- highly unfavorable or unreliable professional references,
- indications of a lack of financial responsibility, or
- certain criminal convictions.

Verisign's human resources and security personnel evaluate reports containing such information and determine the appropriate course of action in light of the type, magnitude, and frequency of the behavior uncovered by the background check.

Such actions may include measures up to and including the cancellation of offers of employment made to candidates for a Trusted Persons role or the termination of existing Trusted Persons. The use of information revealed in a background check to take such actions is subject to the applicable federal, state, and local laws.

4.3.3 Training Requirements

Verisign provides its personnel with training upon hire as well as the requisite on-the-job training needed for them to perform their job responsibilities competently and satisfactorily. Verisign periodically reviews and enhances its training programs as necessary.

Verisign's training programs are tailored to the individual's responsibilities and include the following as relevant:

- basic DNS/DNSSEC concepts,
- job responsibilities,
- use and operation of deployed hardware and software,
- security and operational policies and procedures,
- incident and compromise reporting and handling, and
- disaster recovery and business continuity procedures.

4.3.4 Retraining Frequency and Requirements

Verisign provides refresher training and updates to their personnel to the extent and frequency required to ensure that such personnel maintain the required level of proficiency to perform their job responsibilities competently and satisfactorily.

4.3.5 Job rotation Frequency and Sequence

Personnel are rotated and replaced as needed.

4.3.6 Sanctions for Unauthorized Actions

Appropriate disciplinary actions are taken for unauthorized actions with respect to this DPS and/or other violations of Verisign policies and procedures. Disciplinary actions may include measures up to and including termination and are commensurate with the frequency and severity of the unauthorized actions.

4.3.7 Contracting Personnel Requirements

In limited circumstances, independent contractors or consultants may be used as Trusted Persons. Any such contractor or consultant is held to the same functional and security criteria that apply to a Verisign employee in a comparable position. Independent contractors and consultants who have not completed or passed the background check procedures specified in DPS section 4.3.2 are permitted access to Verisign's secure facilities only to the extent that they are escorted and directly supervised by Trusted Persons at all times.

4.3.8 Documentation Supplied to Personnel

Verisign provides its employees the requisite documentation needed to perform their job responsibilities competently and satisfactorily.

4.4 Audit Logging Procedures

4.4.1 Types of Events Recorded

Verisign manually or automatically logs the following significant events:

TLD/GTLD KSK and ZSK life cycle management events, including:

- key generation, backup, storage, recovery, archival, and destruction;
- exporting of public key components; and
- cryptographic device life cycle management events.

TLD/GTLD KSK and ZSK signing and management events, including:

- key activation
- receipt and validation of signed public key material,
- successful and unsuccessful signing requests, and
- key rollover events.

TLD/GTLD KSK and ZSK security-related events, including:

- successful and unsuccessful system access attempts,
- secure cryptographic actions performed by Trusted Persons,
- security sensitive files and records read, written or deleted,
- changes to a user's security profile,
- system crashes, hardware failures, and other anomalies;
- firewall and router activity,
- facility visitor entry/exit,
- system changes and maintenance/system updates, and
- incident response handling.

Log entries include the following elements:

- date and time of the entry,
- identity of the entity making the journal entry,
- serial or sequence number of entry, for automatic journal entries;
- kind of entry, and
- other events as appropriate.

All types of audit information will contain correct time and date information.

4.4.2 Frequency of Processing Logs

Audit logs are examined periodically for significant security and operational events. In addition, Verisign reviews its audit logs for suspicious or unusual activity in response to alerts generated based on irregularities and incidents within the Verisign zone signing systems. Audit log processing consists of a review of the audit logs and documentation for all significant events in an audit log summary. Audit log reviews include a verification that the log has not been tampered with and an investigation of any alerts or irregularities in the logs. Actions taken based on audit log reviews are also documented.

4.4.3 Retention Period for Audit Logs

All audit data collected in terms of section 4.4.1 are retained on-site for at least one year after creation and are thereafter archived for at least two years.

The media holding the audit data and the applications required to process the information will be maintained to ensure that the archive data can be accessed for the time period set forth in this DPS.

4.4.4 Protection of Audit Logs

Audit logs are protected with an electronic audit log system that includes mechanisms to protect the log files from unauthorized viewing, modification, deletion, or other tampering. Only authorized Trusted Persons are able to obtain direct access to the audit information.

4.4.5 Audit Logs Backup Procedures

Verisign incrementally backs up electronic archives of its TLD/GTLD KSK and ZSK information on a daily basis and performs full backups on a weekly basis. Copies of any paper-based records will be maintained in a secure facility.

4.4.6 Audit Collection System

Automated audit data are generated and recorded at the application, network, and operating system level. Verisign personnel record manually generated audit data.

Electronic information is incrementally backed up and copies of paper-based records are made as new records are entered in the archive. These backups are maintained in a secure facility.

4.4.7 Notification to Event-Causing Subject

Where an event is logged by the audit collection system, no notice is required to be given to the individual, organization, device, or application that caused the event.

4.4.8 Vulnerability Assessments

System security scans are performed on at least a monthly basis at minimum to monitor for system vulnerabilities. Patches are applied, as necessary, in accordance with Verisign's Information Security Policy.

4.5 Compromise and Disaster Recovery

4.5.1 Incident and Compromise Handling Procedures

In the event that a potential or actual compromise of any of the security mechanisms is detected, Verisign will perform an investigation in order to determine the nature of the incident. If the incident is suspected to have compromised the private component of an active KSK, the emergency KSK rollover procedure will be enacted. If the incident is suspected to have compromised the private component of an active ZSK, the emergency ZSK rollover procedure will be enacted.

Verisign will follow its incident handling procedures set forth in the Verisign Information Security Policy. Such procedures require appropriate escalation, incident investigation and incident response.

4.5.2 Corrupted Computing Resources, Software, and/or Data

In the event of the corruption of computing resources, software, and/or data, Verisign's Information Security team is notified and Verisign's incident handling procedures are implemented. Such procedures require appropriate escalation, incident investigation, and incident response. If necessary, Verisign's key compromise or disaster recovery procedures will be implemented.

4.5.3 Entity Private Key Compromise Procedures

4.5.3.1 Key Signing Key Compromise

Upon the suspected or known compromise of the TLD/GTLD KSK, the Verisign Security Incident Response Team (VSIRT) implements Verisign's key compromise response procedures. This team, which includes Information Security, Cryptographic Business Operations, Production Services personnel, and other Verisign management representatives, assesses the situation, develops an action plan, and implements the action plan with approval from Verisign executive management.

4.5.3.2 Zone Signing Key Compromise

Upon the suspected or known compromise of the TLD/GTLD ZSK, the VSIRT implements Verisign's key compromise response procedures. This team, which includes Information Security, Cryptographic Business Operations, Production Services personnel, and other Verisign management representatives, assesses the situation, develops an action plan, and implements the action plan with approval from Verisign executive management.

4.5.4 Business Continuity and IT Disaster Recovery Capabilities

Verisign has implemented a disaster recovery site that is physically and geographically separate from Verisign's principal secure facility. Verisign has developed, implemented and tested business continuity and IT disaster recovery plans to mitigate the effects of natural, man-made, or technological disasters. Verisign plans are regularly tested, validated, and updated so that Verisign systems, services, and key business functions can be operational in the event of any incident or disaster. Detailed business continuity and IT disaster recovery plans are in place to address the restoration of information systems services and key business functions.

Verisign has in place a formal Incident Response Team (IRT) that is supported by a formal Corporate Incident Management Team (CIMT) and Business Continuity teams to respond to and manage any incident or disaster that impacts Verisign employees, operations, environments, and facilities. Verisign's IT disaster recovery site has implemented the physical security and operational controls required by Verisign Physical Security Policies, the Verisign Cryptographic Key Management Guide, and the Verisign Cryptographic Key Ceremony Guide to provide for a secure and sound backup operational environment. In the event of a disaster that requires temporary or permanent cessation of operations from Verisign's primary facility, or a natural, man-made, or technological incident, the IRT and CIMT will initiate Verisign's business continuity and IT disaster recovery plan. Verisign has the capability to restore or recover essential operations following a disaster with, at a minimum, support for the following functions:

- communication with the public,
- ability to import and export KSRs,
- generation of KSKs,
- generation of ZSKs,
- processing and signing of KSR contents,
- signing of a zone file, and
- distribution of the signed zone file.

Verisign's disaster recovery environment is protected by physical security controls comparable to the physical security tiers specified in DPS section 4.1.2. Verisign's business continuity and IT disaster recovery plans have been designed to provide full recovery of critical functionality following any incident or disaster occurring at Verisign's primary site. Verisign tests its environment at its primary site to support all functions to include DNSSEC functions following all but a major disaster that would render the entire facility inoperable. Results of such tests are reviewed and kept for audit and planning purposes. When possible, operations are resumed at Verisign's primary site as soon as possible following any incident or disaster. Verisign maintains redundant hardware and backups of its infrastructure system software at its IT disaster recovery facility. In addition, private keys are backed up and maintained for disaster recovery purposes in accordance with DPS section 5.2.4.

4.6 Entity Termination

In the event that the TLD/GTLD Zone manager is required to change to another party, Verisign will coordinate with all required parties in order to execute the transition in a secure and transparent manner.

5 TECHNICAL SECURITY CONTROLS

5.1 Key Pair Generation and Installation

5.1.1 Key Pair Generation

TLD/GTLD Zone KSK and ZSK key pair generations are performed by multiple pre-selected, trained, and

trusted individuals using secured systems and processes that provide for the security and required cryptographic strength for the generated keys. The HSMs used for TLD/GTLD KSK or ZSK key generations meet the requirements of Federal Information Processing Standards (FIPS) 140-2 level 3.

All KSK and ZSK key pairs are generated in pre-planned Cryptographic Key Generation Ceremonies in accordance with the requirements of the Cryptographic Key Ceremony Guide and the Verisign Information and Physical Security Policies. The activities performed in each Cryptographic Key Generation Ceremony are recorded, dated and signed by all individuals involved. These records are kept for audit and tracking purposes for a length of time deemed appropriate by Verisign Management.

5.1.2 Public Key Delivery

Public key information about the KSKs comes in the Signed-Key Response XML from the CBO. Public key information for the ZSKs comes to the data centers locked inside of the HSMs that are delivered by CBO personnel.

5.1.3 Public Key Parameters Generation and Quality Checking

For the current ZSK size, primality testing of RSA parameters (p and q) will be performed to ensure with the probability of less than 2^{-100} that the numbers are not composite.

Quality checking will also include validating the size of the public exponent to be both resource-efficient and secure.

5.1.4 Key Usage Purposes

Any TLD/GTLD Zone KSK or ZSK private key will be used only for signing the relevant TLD/GTLD Zone's RRsets or self-signing its own DNSKEY RRsets to provide proof of possession of the private key.

Any resulting resource record signature (RRSIG) record will not have a validity period longer than 15 days and will not extend more than 15 days into the future. The RRSIG produced by the ZSK is valid for 7 days and the RRSIG produced by the KSK is valid for 15 days.

5.2 Private Key Protection and Cryptographic Module Engineering Controls

All cryptographic functions involving the private component of the KSK and ZSK are to be performed within the HSM; that is, the private component will not be exported from the HSM except in encrypted form for purposes of key backup.

5.2.1 Cryptographic Module Standards and Controls

For TLD/GTLD KSK and ZSK key pair generation and private key storage, Verisign uses HSMs that are certified at FIPS 140-2 Level 3.

5.2.2 Private Key (M-of-N) Multi-Person Control

Verisign has implemented technical and procedural mechanisms that require the participation of multiple Trusted Persons to perform sensitive cryptographic operations. Verisign uses Secret Sharing to split the activation data needed to make use of a TLD/GTLD KSK or ZSK private key into separate parts called Secret Shares, which are held by trained and trusted individuals called Shareholders. A threshold number of Secret Shares (M) out of the total number (N) of Secret Shares are created and distributed for a particular HSM. The

threshold number is required to activate a TLD/GTLD KSK or ZSK private key stored on the HSM. The threshold number of shares needed is three.

It should be noted that the number of shares distributed for disaster recovery HSMs may be less than the number distributed for primary HSMs, while the threshold number of required shares remains the same.

5.2.3 Private Key Escrow

Private components of TLD/GTLD KSK and ZSK are not escrowed.

5.2.4 Private Key Backup

Verisign creates backup copies of TLD/GTLD KSK and ZSK private keys for routine recovery and disaster recovery purposes. Such keys are stored in encrypted form within HSMs and associated key storage devices. HSMs used for private key storage meet the requirements of this DPS. Private keys are copied to backup HSMs in accordance with this DPS. HSMs containing on-site backup copies of TLD/GTLD KSK and ZSK private keys are subject to the requirements of this DPS. HSMs containing disaster recovery copies of TLD/GTLD KSK and ZSK private keys are subject to the requirements of this DPS.

5.2.5 Private Key Storage

Private keys held on HSMs are stored in encrypted form.

5.2.6 Private Key Archival

TLD/GTLD KSK and ZSK key pairs do not expire but are retired when superseded. Superseded key pairs will be securely retained within HSMs that meet the requirements of this DPS. These key pairs will not be used after their supersession. Decommissioned HSMs will be zeroized when possible.

5.2.7 Private Key Transfer In or Out of a Hardware Security Module

Verisign generates TLD/GTLD KSK and ZSK key pairs on the HSMs, in which the keys will be used, with replication procedures for copying those same keys onto backups (in the case of the KSK) and onto copies used for live signing (in the case of the ZSKs). In addition, Verisign makes copies of such key pairs for routine recovery and disaster recovery purposes. Where key pairs are backed up to another HSM, such key pairs are transported between HSMs in encrypted form.

5.2.8 Method of Activating Private Key

TLD/GTLD KSK and ZSK private keys will be set to an activated state using a minimum of three Secret Shares.

5.2.9 Method of Deactivating Private Key

TLD/GTLD KSK and ZSK private keys are set to an inactive state upon system shutdown.

5.2.10 Method of Destroying Private Key

Where required, Verisign destroys the TLD/GTLD KSK and ZSK private keys in a manner that reasonably ensures that there are no residual remains of the keys that could lead to the reconstruction of the keys. Verisign utilizes the zeroization function, if able, of its HSM and other appropriate means to ensure the complete destruction of TLD/GTLD KSK and ZSK private keys. When performed, private key destruction activities are logged.

5.3 Other Aspects of Key Pair Management

5.3.1 Public Key Archival

TLD/GTLD KSK and ZSK public keys are backed up and archived as part of Verisign's routine backup procedures.

5.3.2 Key Usage Periods

The operational period of each TLD/GTLD KSK and ZSK ends upon its supersession. The superseded TLD/GTLD KSK and ZSK are never reused.

5.4 Activation Data

5.4.1 Activation Data Generation and Installation

Activation data (contained in Secret Shares) used to activate HSMs containing Verisign TLD/GTLD KSK and ZSK private keys are generated in accordance with the requirements of DPS section 5.2. The creation and distribution of Secret Shares is logged.

When required, activation data for the TLD/GTLD HSMs are transmitted from the PIN Entry Device to the HSM. This transmission occurs on Verisign's secure infrastructure.

5.4.2 Activation Data Protection

Shareholders are required to safeguard their Secret Shares and sign an agreement acknowledging their Shareholder responsibilities.

Secret Shares for the HSMs that contain the TLD/GTLD KSK and ZSK private keys will be decommissioned using methods that protect against the loss, theft, modification, unauthorized disclosure, and unauthorized use of the private keys protected by such activation data. Verisign will decommission Secret Shares by zeroizing and/or physical destruction after decommissioning the associated HSMs.

5.5 Computer Security Controls

Verisign ensures that the systems maintaining key software and data files are secured from unauthorized access. In addition, Verisign limits access to production servers to those individuals with a valid business reason for such access. General application users do not have accounts on production servers.

Verisign requires the use of passwords that have a minimum character length and a combination of alphanumeric and special characters. Verisign requires that passwords be changed on a periodic basis.

5.6 Network Security Controls

Verisign performs all of its online signing functions using networks secured in accordance with the Verisign Information and Physical Security Policies to prevent unauthorized access and other malicious activity. Verisign protects its communications of sensitive information through the use of encryption and digital signatures.

Verisign's production network is logically separated from other components. This separation prevents network access except through defined application processes. Verisign uses firewalls to protect the production network from internal and external intrusion and to limit the nature and source of network activities that may access production systems that are related to key signing activities.

5.7 Timestamping

Time derived from the procedure will be used for timestamping of

- electronic and paper based audit log records, and
- DNSSEC signatures expiration and inception times.

Asserted times are required to be reasonably accurate.

5.8 Life Cycle Technical Controls

5.8.1 System Development Controls

Applications are developed and implemented by Verisign in accordance with Verisign systems development and change management standards.

All Verisign software deployed on production systems can be traced to version control repositories.

5.8.2 Security Management Controls

Verisign has mechanisms and/or policies in place to control and monitor the configuration of its systems. Verisign creates a hash of all software packages installed on production systems. This hash may be used to verify the integrity of such software for forensic purposes, although in practice host-based intrusion detection is used to alert when critical software packages are modified.

5.8.3 Life Cycle Security Controls

The signer system is designed to require a minimum of maintenance. Updates critical to the security and operations of the signer system will be applied after formal testing and approval. The origin of all software and firmware will be securely authenticated by available means.

HSMs, which are critical hardware components of the signer system, will be procured directly from the manufacturer and transported in tamper-evident bags to their destination in the secure facility. Any hardware will be decommissioned well before the specified life expectancy.

6 ZONE SIGNING

The TLD/GTLD Zone manager provides the TLD/GTLD Zone maintainer with a signed and valid DNSKEY RRset containing the TLD/GTLD Zone ZSK operator's current keys and the KSKs.

Depending on the TLD/GTLD that is implemented, one of the two options will be used:

Option 1: The TLD/GTLD Zone maintainer includes this keyset into the TLD/GTLD Zone file, adds the Next Secure 3 (NSEC3) Records and creates signatures for all relevant records. The TLD/GTLD Zone is then distributed to the TLD/GTLD server operators.

Option 2: The TLD/GTLD Zone maintainer includes this keyset into the TLD/GTLD Zone file, adds the Next Secure (NSEC) Records and creates signatures for all relevant records. The TLD/GTLD Zone is then distributed to the TLD/GTLD Server Operators.

The TLD/GTLD Zone maintainer will conduct the continuous TLD/GTLD Zone signing automatically.

6.1 Key Lengths, Key Types, and Algorithms

Key pairs are required to be of sufficient length to prevent others from determining the key pair's private key using crypto-analysis during the period of expected utilization of such key pairs.

The current TLD/GTLD KSK key pair(s) is an RSA key pair, with a modulus size of 2048 bits. The current TLD/GTLD ZSK key pair(s) is an RSA key pair, with a modulus size of 1024 bits.

6.2 Authenticated Denial of Existence

Depending on the TLD/GTLD that it is implemented, one of the two options will be used:

Option 1: Authenticated denial of existence will be provided through the use of NSEC3 records as specified in Request for Comments (RFC) 5155.

Option 2: Authenticated denial of existence will be provided through the use of NSEC records as specified in RFC 4034.

6.3 Signature Format

The cryptographic hash function used in conjunction with the signing algorithm is required to be sufficiently resistant to pre-image attacks during the time of which the signature is valid.

Depending on the TLD/GTLD that it is implemented, one of the two options will be used:

 $Option\ 1: The\ TLD/GTLD\ KSK\ and\ ZSK\ signatures\ will\ be\ generated\ by\ encrypting\ SHA-256\ hashes.$

Option 2: The TLD/GTLD KSK and ZSK signatures will be generated by encrypting SHA-512 hashes.

6.4 Key Signing Key Rollover

 $\label{lem:currently} Currently there are no definite planned TLD/GTLD KSK rollovers, but Verisign will assess the need for a TLD/GTLD KSK rollover approximately once a year.$

6.5 Zone Signing Key Rollover

TLD/GTLD ZSK rollover is automatically carried out quarterly by the system. TLD/GTLD ZSK key signing is conducted in advance (so as to keep the TLD/GTLD KSK offline as much as possible). The necessary TLD/GTLD ZSKs, to be used in between these gatherings, are pre-generated and signed at the same occasion with the projected signature inception and expiration time.

6.6 Signature Life-Time and Re-Signing Frequency

The signing practice of the TLD/GTLD Zone is divided into quarterly continuous time cycles of approximately 90 days. Time cycles begin at the following dates each year:

January 15th April 15th July 15th October 15th

All DNSKEY records produced by the changes listed above are known in advance and signed in advance by the TLD/GTLD KSK. The collection of DNSKEY records for which Verisign pre-generates digital signatures consists of a one year period.

The time cycle will never be less than 90 days, except in emergency situations (in which a key has been compromised) or if Verisign decides to begin using different key lengths.

A new ZSK is generated by the TLD/GTLD Zone maintainer to be used for each new time cycle. Hence, a TLD/GTLD ZSK rollover is performed at the edge of every time cycle.

90-day cycle with KSK and ZSK rollover

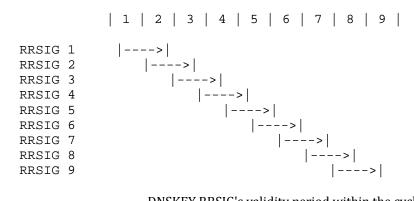
Figure 1

In the event of a ZSK rollover, time slots (10 days each) are used for pre-publish and post-publish in the following order;

```
Slot 1:
Publish ZSK (n) + ZSK (n-1) + KSK, sign zone with ZSK (n)
Slot 2-8:
Publish ZSK (n) + KSKs, sign zone with ZSK (n)
Slot 9:
Publish ZSK (n) + ZSK (n+1) + KSKs, sign zone with ZSK (n)
```

The TLD/GTLD Zone maintainer selects and includes the current DNSKEY RRset and corresponding signature(s), and then signs all other authoritative records within the TLD/GTLD Zone using the current TLD/GTLD ZSK with a validity period set to seven days.

For each of these slots there is a pre-generated DNSKEY key set that is signed at the key ceremony.



DNSKEY RRSIG's validity period within the cycle

Figure 2

6.7 Verification of Zone Signing Key Set

The TLD/GTLD Zone KSK operator's system will verify the signature data are authentic by validating the public key data contained in the KSR.

6.8 Verification of Resource Records

The extractor/validator system verifies all RRSIGs prior to distribution. The integrity of the unsigned zone contents is also validated prior to distribution.

6.9 Resource Records' Time-to-Live

RR Type	Time-To-Live (TTL)
DNSKEY	24 hours
DS	24 hours
NSEC3	Same as the minimum TTL value field in the zone SOA RR
RRSIG	same as the covered RRset (varies to a maximum of 48 hours)

7 COMPLIANCE AUDIT

An annual compliance audit for DNSSEC operations examination is performed for Verisign's data center operations and key management operations supporting Verisign's TLD/GTLD Zone signing services including the TLD/GTLD KSK and ZSK management.

7.1 Frequency of Entity Compliance Audit

Compliance audits are conducted at least annually at the sole expense of the audited entity.

7.2 Identity/Qualifications of Auditor

Verisign's compliance audits are performed by a public accounting firm that demonstrates proficiency in DNSSEC public key infrastructure technology, information security tools and techniques, security auditing, and the third-party attestation function, and is accredited by the American Institute of Certified Public Accountants (AICPA), which requires the possession of certain skill sets, quality assurance measures such as peer review, competency testing, standards with respect to proper assignment of staff to engagements, and requirements for continuing professional education.

7.3 Auditor's Relationship to Audited Party

Compliance audits of Verisign's operations are performed by a public accounting firm that is independent of Verisign. Third party auditors do not participate in the multi-person control for the TLD/GTLD KSK and ZSK.

7.4 Topics Covered by Audit

The scope of Verisign's annual compliance audit includes all DNSSEC operations. This includes key environmental controls, key management operations, infrastructure/administrative controls, TLD/GTLD KSK and ZSK, and signature life cycle management and practices disclosure.

7.5 Actions Taken as a Result of Deficiency

With respect to compliance audits of Verisign's operations, significant exceptions, or deficiencies identified during the compliance audit will result in a determination of actions to be taken. This determination is made by Verisign management with input from the auditor. Verisign management is responsible for developing and implementing a corrective action plan. If Verisign determines that such exceptions or deficiencies pose an immediate threat to the security or integrity of the TLD/GTLD KSK and/or ZSK, a corrective action plan will be developed within 30 days and implemented within a commercially reasonable period of time. For less serious exceptions or deficiencies, Verisign management will evaluate the significance of such issues and determine the appropriate course of action.

7.6 Communication of Results

A copy of Verisign's Management Assertion can be found at http://www.verisign.com/en_US/repository/index.xhtml.

8 LEGAL MATTERS

8.1 Fees

Not applicable.

8.2 Financial Responsibility

Not applicable.

8.3 Confidentiality of Business Information

8.3.1 Scope of Confidential Information

The following records shall be kept confidential and private:

- private keys and information needed to recover such private keys,
- transactional records (both full records and the audit trail of transactions),
- audit trail records created or retained by Verisign,
- audit reports created by Verisign (to the extent such reports are maintained) or their respective auditors (whether internal or public);
- contingency planning and disaster recovery plans, and
- security measures controlling the operations of Verisign hardware and software and the administration of DNS keys.

8.3.2 Types of Information Not Considered Confidential

All information pertaining to the database of top-level domains is public information. Public keys and other status information, as well as Verisign repositories and information contained within them are not considered confidential/private information.

8.3.3 Responsibility to Protect Confidential Information

Verisign secures confidential information against compromise and disclosure to third parties.

8.4 Privacy of Personal Information

8.4.1 Information Treated as Private

To the extent, Verisign receives or processes, on behalf of a customer, Personal Identifiable Information (PII) in the course of providing TLD/GTLD Zone services, such PII is treated as private in accordance with the terms of Verisign's Privacy Policy as set forth at http://www.verisign.com/en_US/privacy/index.xhtml.

8.4.2 Information Not Deemed Private

Subject to applicable laws, all information required to be published as part of a whois database is deemed not private.

8.4.3 Responsibility to Protect Private Information

In providing TLD/GTLD Zone services, Verisign acts as a data processor and not as a data controller, and any obligations that Verisign may have with respect to any PII is governed, subject to applicable law, by the applicable customer agreement and to the extent not governed by any applicable customer agreement, by Verisign's Privacy Policy set forth at http://www.verisign.com/en_US/privacy/index.xhtml.

8.4.4 Disclosure Pursuant to Judicial or Administrative Process

Verisign shall be entitled to disclose confidential/private Information if, in good faith, Verisign believes that

disclosure is necessary in response to judicial, administrative, or other legal process during the discovery process in a civil or administrative action, such as subpoenas, interrogatories, requests for admission, and requests for production of documents.

8.5 Limitations of Liability

Verisign shall not be liable for any financial loss or loss arising from incidental damage or impairment resulting from its performance of its obligations hereunder or the TLD/GTLD Zone manager's or the TLD/GTLD Zone KSK and ZSK operator's performance of their respective obligations under this DPS for the TLD/GTLD Zone KSK and ZSK operator. No other liability, implicit or explicit, is accepted.

8.5.1 Dispute Resolution Provisions

Disputes among DNSSEC participants shall be resolved pursuant to provisions in the applicable agreements among the parties. Disputes involving Verisign require an initial negotiation period of 60 days followed by litigation in the federal or state court encompassing Fairfax County, Virginia.

8.5.2 Governing Law

This DPS shall be governed by the laws of the Commonwealth of Virginia.

8.6 Term and Termination

8.6.1 Term

This DPS becomes effective upon publication in the Verisign Repository. Amendments to this DPS become effective upon publication in the Verisign Repository.

8.6.2 Termination

This DPS is amended from time to time and will remain in force until it is replaced by a new version.

Appendix A Table of Acronyms and Terms

A.1 Acronyms

Acronym	Term
AICPA	American Institute of Certified Public Accountants
DNS	Domain Name System
DNSSEC	Domain Name System Security Extensions
DPS	DNSSEC Practice Statement
DS	Delegation Signer
FIPS	Federal Information Processing Standards
GTLD	Generic Top Level Domain
HSM	Hardware Security Module
KSK	Key Signing Key
NSEC3	NextSecure3
PII	Personal Identifiable Information
PMA	Policy Management Authority
RFC	Request for Comments
RRSIG	Resource Record Signature
SHA	Secure Hash Algorithm
SOA	Start of Authority
TLD	Top Level Domain
TTL	Time-To-Live
VSIRT	Verisign Security Incident Response Team
ZSK	Zone Signing Key

A.2 Terms

Term	Definition
Chain of Trust	DNS keys, signatures and delegation signer records
	linked together forming a chain of signed data.
Child Zone	A boundary of responsibility for a domain that exists
	one level higher than the referenced zone.
Compromise	A violation (or suspected violation) of a security policy,
	in which an unauthorized disclosure of, or loss of
	control over, sensitive information may have occurred.
	With respect to private keys, a Compromise is a loss,
	theft, disclosure, modification, unauthorized use, or
	other modification, unauthorized use, or other
	compromise of the security of such private key.
Compliance Audit	A periodic audit that Verisign undergoes to determine
	its conformance with standards that apply to it.
Confidential/Private Information	Information required to be kept confidential and
Confidential, I Tivace information	private.
Cryptographic Key Generation Ceremony	A procedure whereby a key pair is generated within a
cryptograpme key deneration determiny	cryptographic module.
Delegation Signer (DS)	A resource record indicating that the delegated zone is
Delegation Signer (DS)	digitally signed. It also assures that the parent zone
	recognizes the indicated key for the delegated zone.
DNSKEY	A resource record that stores the public version of a KSK
DNSKET	or ZSK.
Key Signing Key (KSK)	A key that signs the DNSKEY RRset.
Offline HSM	HSMs that are maintained offline for security reasons in
Offinie HSM	order to protect them from possible attacks by intruders
	by way of the network. These HSMs do not directly sign
	the zone file.
Online HSM	HSMs that sign the zone file using the Zone Signing Key
Offine HSW	are maintained online so as to provide continuous
	signing services.
Parent Zone	A boundary of responsibility for a domain with at least
Parent Zone	one subdomain.
Doligy Management Authority (DMA)	
Policy Management Authority (PMA)	The organization within Verisign responsible for
Danagitawy	promulgating this policy. A location on the Verisign web site where DNSSEC
Repository	related information is made accessible online.
Dagayna Dagand Cignatura (DDCIC)	
Resource Record Signature (RRSIG)	Signature data in the zone file.
RSA	A public key cryptographic system invented by Rivest,
Carrat Chara	Shamir, and Adelman.
Secret Share	A portion of the activation data needed to operate a
Cunavaadanaa	private key under a Secret Sharing arrangement.
Supercedence	A key is superseded when it stops being published in its respective zone.
Trusted Persons	*
	Persons who hold positions within DNSSEC operations.
Verisign	Means, with respect to each pertinent portion of this,
	Verisign, Inc. and/or any wholly owned Verisign
	subsidiary responsible for the specific operations at
Zono	issue.
Zone	A boundary of responsibility for each domain.
Zone Signing Key (ZSK)	A key that signs the TLD/GTLD Zone.

Appendix B Changes From Previous Version

Changes from Previous Version: Version 1.4

Section	Description	
Cover page	Changed Ver	sion to 1.4
	Changed Effe	ctive Date to "TBD"
	Changed	"Signing and Zone" to
		"signing and zone"
	Changed	"distribution services that include, but are not limited to, issuing,
		managing, changing, and distributing DNS Keys" to
		"distribution functions, such as issuing, managing, changing, and
		distributing Domain Name System (DNS) keys, for the TLD/GTLD Zone
		service."
	Changed	"registry operator" to
		"Registry Operator"
	Changed	"Verisign is the delegated registry operator for the TLD/GTLD zone
	38	under contract with the Internet Corporation for Assigned Names and
		Numbers." To "Verisign is either (1) the delegated Registry Operator
		for the TLD/GTLD Zones under contract with the Internet
		Corporation for Assigned Names and Numbers(ICANN), or (2)
		operating back end registry services under contract to the Registry
		Operator who has designated Verisign as the Technical Contact in
		Internet Assigned Numbers Authority's (IANA) Root Zone Database.
		The TLD/GTLD Zones operated by Verisign are listed in the auxiliary
		document "Verisign Operated TLD/GLD Zones"."
	Changed	"2015" to
	Changeu	"2016"
"20 Changed "Notices" to		
	Changed	"http://www.verisigninc.com" to
	Changeu	"http://www.verisigninc.com"
Table of	Povised font	usage throughout table of contents
Contents		talization for all section headers
Contents		erators" to singular in 1.3.4
	Changed	"2.1 Repositories" to
	Changeu	"2.1 Repositories to "2.1 Publication of Key Signing Keys"
	Changed	"2.2 Publication of Key Signing Keys" to
	Changeu	"2.2 Repositories"
	Removed "(I	
		"3.5 Removal of DS Record" to
	Changed	
	Changed	"3.5 Removal of Delegation Signer Records" "4.2.1 Trusted Roles" to
	Changed	
	Dll: 1 "I	"4.2.1 Trusted Persons"
	Pluralized "L	
		a Cryptographic Module" from 5.2.5
	Changed	"5.2.7. Private key transfer into or from a cryptographic module" to
	G1 1	"5.2.7. Private Key Transfer In or Out of a Hardware Security Module"
	Changed	"6.1 Key lengths and algorithms" to
	G1 1	"6.1 Key Lengths, Key Types, and Algorithms"
	Changed	"6.4 Zone signing key rollover" to
		"6.4 Key Signing Key Rollover"
	Changed	"6.5 Key signing key rollover" to

	1	
		"6.5 Zone Signing Key Rollover"
		pute Resolution Provisions "
	Added "8.5.2 Gov	
		Dispute Resolution Provisions "
	Removed "8.6.4 (
		"Appendix A Table of Acronyms and Definitions" to
		"Appendix A Table of Acronyms and Terms"
		"A.2 Definitions" to
		"A.2 Terms"
	Changed	"Appendix B History of Changes" to
		"Appendix B Changes From Previous Version"
	Updated page nu	
Entire		"verisigninc.com" to
Document		"verisign.com"
Document		ation for all section headers
	Revised punctuat	
	Revised list form	
		h page number and "Verisign Public"
		perator" to lowercase
	<u> </u>	aintainer" to lowercase
		anager" to lowercase
		gistrars" to lowercase
		gning Key", "Zone Signing Key", and "Hardware Security Module" with
	"KSK", "ZSK", and	l "HSM", respectively.
	Changed	"&" to
		"and"
	Changed	"Child Zone" to
		"child zone"
	Changed	"the DPS" to
	onungeu.	"this DPS"
	Changed z in "TI	D/GTLD zone" to uppercase
	Changed	"module(s)"
	Changeu	"HSM(s)"
	Changed	"Key Generation Ceremony"
	Changed	
1	Cl l	"Cryptographic Key Generation Ceremony"
1	Changed	"the Verisign DNSSEC Practice Statement for the" to
		"the Verisign DPS for the"
	Changed	"that Verisign employs in"
		"that are employed in"
	Changed	"distribution services that include, but are not limited to, issuing,
		managing, changing, and distributing DNS Keys" to
		"zone distribution functions, such as issuing, managing, changing, and
		distributing DNS keys, for the TLD/GTLD Zone service"
1.1	Changed	"IETF specifications for adding origin authentication and data
		integrity" to
		"Internet Engineering Task Force (IETF) specifications for adding
		origin authentication, data integrity, and authenticated denial of
		existence"
	Changed	"Domain Name System (DNS)" to
	onungeu	"DNS"
	Changed i in "into	ernet" to uppercase
	_	
	Changed	"to provide integrity and authenticity of DNS data." to
		"to provide origin authentication, data integrity, and authenticated
	g) ,	denial of existence of DNS data."
	Changed	"adding data origin authentication, data integrity verification and" to
		"adding origin authentication, data integrity and"
	Changed	"TLD/GTLD Key Signing Key and Zone Signing Key." to

		"TLD/GTLD Zone Key Signing Key (KSK) and Zone Signing Key (ZSK)."
	Changed	"TLD/GTLD KSK and ZSK" to
	a	"TLD/GTLD Zone KSK and ZSK"
	Changed	"The Verisign Key Ceremony Guide" to
		"The Verisign Cryptographic Key Ceremony Guide"
	Changed	"refers to these ancillary" to
		"refers to one or more of the above ancillary"
	Changed	"implementing Verisign proprietary standards where including the
		specifics in the DPS could compromise the security of the Verisign
		TLD/GTLD zone signing operation" to
		". These ancillary documents are Verisign confidential and proprietary
		information and will not be publically disclosed."
1.2	Removed peri	
1.3.2		"Administrator" to lowercase
	Removed "Thi	is role differs from the third party auditors who conduct the compliance
		erate the audit report"
1.3.3		forming the function of receiving change requests to the TLD/GTLD Zone,
	implementing	the changes, generating a new TLD/GTLD Zone File and publishing the
	TLD/GTLD Zo	ne"
1.3.4	Changed	"Verisign serves as the only operator for the TLD/GTLD zone" to
		"The TLD/GTLD Zone operator is Verisign"
1.3.5	Removed "per	forming the function of generating the TLD/GTLD Zone's Key Signing Key
	(KSK) and sign	ning the TLD/GTLD keyset using the KSK. The TLD/GTLD Zone Key Signing
	Key Operator	is also responsible for securely generating and storing the private keys and
	distributing th	ne public portion of the Key Signing Key to the parent zone"
	Removed "(TI	LD/GTLD KSK)"
	Reordered "ZS	SK and KSK" to "KSK and ZSK"
	Flipped the or	der of number 5 and 6 in the list
	Changed	"Resource Record Set to the TLD/GTLD ZSK" to
		"resource record set (RRset) to the TLD/GTLD Zone ZSK"
	Changed	"DS" to
		"Delegation Signer (DS)"
	Changed	"root zone" to
		"Root Zone"
	Changed	"reasonable time" to
		"a reasonable amount of time"
1.3.6	Removed "per	forming the function of generating the TLD/GTLD Zone's Zone Signing Key
	(ZSK) and sign	ning the TLD/GTLD Zone File using the ZSK. The TLD/GTLD Zone Zone
	Signing Key O	perator is also responsible for securely generating and storing the private
	keys and distr	ibuting the public portion of the Zone Signing Key to the TLD/GTLD Zone
		ey Operator for signing"
	Removed "(TI	LD/GTLD ZSK)"
	Changed	"to the TLD/GTLD KSK Operator" to
		"to the TLD/GTLD Zone KSK operator"
	Changed	"Resource Record Set from" to
		"RRset from"
	Changed	"from the TLD/GTLD KSK operator" to
		"from the TLD/GTLD Zone KSK operator"
	Changed	"Resource Record Set," to
		"RRset, and"
1.3.7		LD/GTLD Domain Name)"
	Changed	"Delegation Signer" to
		"DS"
	Changed	"a reasonable time" to
		"a reasonable amount of time"
1.4	Changed	"the Verisign Policy Management Authority" to
		"the Verisign DNSSEC Policy Management Authority"
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1.4.3	Changed	"Verisign DNSSEC Policy Management Authority (PMA)" to "PMA"
	Removed hype	rlink underline
		gn and the PMA reserve the right to amend this DPS without notification"
	to first paragra	•
	Removed secon	nd paragraph
	Changed	"desirable and proposes to implement the amendment, the PMA will
		provide notice of such amendment in accordance with this section." to "desirable, the PMA will approve the proposed amendment and the amended form of this DPS will be uploaded to the Verisign
		Repository."
	Changed	"The PMA solicits proposed" to
		"The PMA may solicit proposed"
		entence to "Notwithstanding anything in this DPS to the contrary, if the
		hat material amendments to this DPS are immediately necessary to stop
		reach of security, Verisign and the PMA are entitled to make such
		hat are effective immediately upon approval by the PMA"
2.1		tched with Section 2.2
	Changed	"The public portion" to
		"A hash of the public portion"
	Changed	"TLD/GTLD zone" to
		"Root Zone"
2.2		tched with Section 2.1
		rlink underline
3.1	Changed	"NOT" to
		"not"
3.2	Changed	"by the publishing in the TLD/GTLD zone of a signed DS record for
		that child zone" to
		"by the publication of a signed DS record for that child zone in the
		TLD/GTLD Zone"
	Changed	"representation, or hash, of the child zone generated and controlled
		Key Signing Key." to
		"representation, or hash, of the public portion of the child zone
		generated and controlled KSK."
3.5		n 3.5.1 and put content in Section 3.5
	Changed	"can be requested by only the Child Zone manager." to
		"can only be requested by registrars."
4.1	Changed	"supports the security" to
		"supports the physical security"
4.1.2	Changed	"operational activity, activity" to
		"operational activity and any activity"
		ess to each tier requires the use of a proximity card employee badge."
	Changed	"two-factor" to
		"multi-factor"
	Changed	"HSMs" to
		"hardware security modules (HSMs)"
	Changed	"control, each through the use of two-factor" to
		"control through the use of multi-factor"
	Changed	"locked safes, cabinets, and" to
		"locked safes and"
	Changed	"cabinets or containers in these tiers are logged" to
		"cabinets, safes, or containers in these tiers is logged"
4.1.4	Changed	"reasonable precautions" to
		"reasonable measures"
4.1.5	Changed	"prevent and extinguish" to
		"prevent and be able to extinguish"
4.1.6	Changed	"software, as well as media containing data, audit, archive, and backup

		Information is stored" to
		"software data, as well as audit, archive, or backup information are
		stored"
4.1.8	Changed	"facility and Verisign's East Coast disaster recovery facility." to
4.1.0	Changeu	"facility and/or Verisign's disaster recovery facility(ies)."
4.2.1	Changed	"public components; and" to
7.2.1	Changeu	"public components, or"
	Changed	"signing Zone File data." to
	Gilangea	"signing of zone file data."
	Changed	"provisioning and resolution operations" to
	Gilangea	"Provisioning and Resolution Operations"
	Changed	"Cryptographic business operations" to
	33333	"Cryptographic Business Operations"
	Changed	"Trusted Persons having a Trusted Position. Persons seeking to become
	3 3 6 3	Trusted Persons by obtaining a Trusted Position must" to
		"Trusted Persons. Personnel seeking to become Trusted Persons must"
	Changed	"set out in this DPS" to
		"set out in section 4.3.2 of this DPS"
4.2.2	Removed "Pol	icy and control procedures are in place to ensure segregation of duties
	based on job r	esponsibilities."
	Changed	"(Hardware Security Module or HSM)" to
		"(i.e., HSMs)"
	Changed	"is strictly enforced by" to
		"is strictly controlled by"
4.2.3	Changed	"achieved Trusted Status" to
		"achieved Trusted Persons status"
4.2.4	Changed	"generation, operation or destruction" to
	D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	"generation, management, or destruction"
422		SK or KSK" to "KSK or ZSK"
4.3.2	Changed	"TLD/GTLD Zone Signing process are required to pass a background"
		to "TLD/GTLD Zone signing process are required to pass a Verisign
		background"
	Changed	"employment in a Trusted Role" to
	Changea	"employment as a Trusted Person"
	Changed	"candidates for Trusted Positions or" to
	diangea	"candidates for roles requiring Trusted Persons or"
	Changed	"Reports containing such information are evaluated by Verisign's
	Gilangea	human resources and security personnel, who determine" to
		"Verisign's human resources and security personnel evaluate reports
		containing such information and determine"
	Changed	"candidates for Trusted Positions or" to
		"candidates for a Trusted Persons role or"
4.3.7	Changed	"be used to fill Trusted Positions." to
		"be used as Trusted Persons."
	Removed s fro	m "employees"
	Changed	"section 4.3 are permitted" to
		"section 4.3.2 are permitted"
	Changed	"to the extent they are escorted" to
100		"to the extent that they are escorted"
4.3.8	Changed	"requisite training and other documentation" to
4.4.4	CI .	"requisite documentation"
4.4.1	Changed	"Security-related" to
	Cl. 1	"TLD/GTLD KSK and ZSK security-related"
	Changed	"Key and security system actions performed by trusted personnel" to
	Changed	"Secure cryptographic actions performed by Trusted Persons"
	Changed	"written and deleted" to

Changed "Security profile changes" to "changes to a user's security profile" 4.4.2 Changed "examined after each key ceremony for" to "examined periodically for" Changed "Verisign Zone Signing systems" to "Verisign Zone Signing systems" to "Verisign Zone Signing systems" to "significant events." to "significant events." to "least one (1) year" to "least to years." to "at least I vo years." to "at least I vo years." to "Added "Only authorized Trusted Persons are able to obtain direct access to the audit information." 4.4.5 Reordered "ZSK and KSK" to "KSK and ZSK" 4.4.6 Changed "Manually generated audit data are recorded by Verisign personnel." to "Verisign personnel record manually generated audit data." 4.4.8 Changed "Events in the audit process are logged, in part, to monitor system vulnerabilities. Security vulnerability assessments ("SVAs") are performed, and reviewed following an examination of these monitored events. SVAs are based on automated logging data and are performed on a regular basis. An annual SVA will be an input into an entity's annual compliance audit." to "System security scans are performed on at least a monthly basis to monitor for system vulnerabilities. Patches are applied, as necessary, in accordance with Verisign's Information Security Policy." 4.5.1 Changed "Backups of audit data and database records are kept in off-site storage and are available in the event of a compromise or disaster. Back-ups of private keys will be generated and maintained in accordance with the DPS section 5.2.4." to "In the event that a potential or actual compromise of any of the security mechanisms is detected. Verisign will perform an investigation in order to determine the nature of the incident. If the incident is suspected to have compromised the private component of an active KSK, the emergency KSK rollover procedures will be enacted. Verisign Information Security Incident Response Forcedures implemented by the Verisign Security			W
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"ZSK, the VSIRT implements Verisign's key compromise response			
procedures."			
			procedures."

4.5.4	Changed	"secure facilities." to
4.3.4	Cilaligeu	"secure facility."
	Changed	"and" to
	Changeu	"or"
	Changed	"These plans are regularly tested, validated, and updated to be
	Changeu	operational" to
		"Verisign plans are regularly tested, validated, and updated so that
		Verisign systems, services and key business functions can be"
	Changed	"Incident Response Team" to
	Changeu	" Incident Response Team (IRT)"
	Changed	"and business unit Business Continuity Teams to" to
	Changeu	"and Business Continuity teams to "
	Changed	"physical security protections and" to
	Changeu	"physical security and"
	Changed	"the Verisign Key Management Security Guide" to
	Changeu	"the Verisign Key Management Guide"
	Changed	"the Verisign Key Ceremony Guide" to
	Jiidiiged	"the Verisign Cryptographic Key Ceremony Guide"
	Changed	"In the event of a natural and man-made, or technological incident or
	Jiidiiged	disaster that requires temporary or permanent cessation of operations
		from Verisign's primary facility, Verisign's business continuity and IT
		disaster recovery process is initiated by the Incident Response Team
		(IRT) and Corporate Incident Management Team (CIMT)" to
		"In the event of a disaster that requires temporary or permanent
		cessation of operations from Verisign's primary facility, or a natural,
		man-made, or technological incident, the IRT and CIMT will initiate
		Verisign's business continuity and IT disaster recovery plan."
	Moved location o	f "generation of ZSKs" in list
	Changed	"Signing of a Zone File" to
	Gage u	"signing of a zone file"
	Changed	"Distribution of the Signed Zone File" to
	3-1	"distribution of the signed zone file"
	Changed	"physical security protections comparable" to
	J	"physical security controls comparable"
	Changed	"Where possible," to
		"When possible,"
4.6	Changed	"Verisign has adopted a DNSSEC termination plan in the event that the
	-	roles and responsibilities of the TLD/GTLD Zone ZSK and KSK
		Operator must transition to the other entities." to
		"În the event that the TLD/GTLD Zone manager is required to change
		to another party"
5.1.1	Changed	"(TLD/GTLD) KSK and ZSK key pair generation are" to
		"KSK and ZSK key pair generations are"
	Changed	"using Trustworthy Systems and" to
		"using secured systems and"
	Changed	"cryptographic modules" to
		"HSMs"
	Changed	"KSK & ZSK key generation meet the requirements of FIPS 140-2" to
		"KSK or ZSK key generations meet the requirements of Federal
		Information Processing Standards (FIPS) 140-2"
	Changed	"Key Ceremony Reference Guide" to
		"Cryptographic Key Ceremony Guide"
	Changed	"each Key Generation Ceremony" to
		"each Cryptographic Key Generation Ceremony "
	Changed	"recorded, and such records are dated" to
		"recorded, dated"
5.1.2	Changed	"Public-key" to

		"Public key" twice
5.1.3	Superscript "-100	
5.1.4	Changed	"Any TLD/GTLD zone KSK & ZSK" to
		"Any TLD/GTLD Zone KSK or ZSK"
	Changed	"TLD/GTLD zone RR sets" to
		"TLD/GTLD Zone RRsets"
	Changed	"DNSKEY RR sets" to
		"DNSKEY RRsets"
	Changed	"possession of private key" to
		"possession of the private key"
	Changed	"Any resulting RRSIG" to
		"Any resulting resource record signature (RRSIG)"
	Changed	"longer than 7 days" to
		"longer than 15 days"
	Changed	"more than 7 days" to
5.2.2	Changad	"more than 15 days" "multiple trusted individuals to perform" to
5.2.2	Changed	"multiple Trusted Persons to perform"
	Changed	"of an TLD/GTLD KSK & ZSK" to
	Changed	"of a TLD/GTLD KSK or ZSK"
	Changed	"that are" to
	diangea	", which are"
	Changed m in "(n	
	Changed n in "(n)	
	Changed	"Secret Shares created" to
		"Secret Shares are created"
	Changed	"particular hardware security module is required" to
		"particular HSM. The threshold number"
	Changed	"a TLD/GTLD ZSK private key" to
		"a TLD/GTLD KSK or ZSK private key"
	Changed	"shares needed to sign a TLD/GTLD Zone File is 3." to
		"shares needed is three."
	Changed	"distributed for operational HSMs" to
		"distributed for primary HSMs"
	Changed	"required shares (m) remains" to
	D 1.00	"required shares remains"
F 2 (Shares are protected in accordance with this DPS."
5.2.6	Changed	"used for any signing events after their supersession and will be zeroized after the HSMs are decommissioned" to
		"used after their supersession. Decommissioned HSMs will be
		zeroized when possible."
5.2.8	Changed	"The TLD/GTLD KSK and ZSK private key will be activated using
3.2.0	Changed	minimum of 3 MofN Secret Shares." to
		"TLD/GTLD KSK and ZSK private keys will be set to an activated state
		using a minimum of three Secret Shares."
5.2.9	Changed	"Verisign TLD/GTLD KSK and ZSK private keys are deactivated upon
0.2.3	- Silangea	system shutdown." to
		"TLD/GTLD KSK and ZSK private keys are set to an inactive state upon
		system shutdown."
5.2.10	Changed	"zeroization function of its HSM" to
		"zeroization function, if able, of its HSM"
5.3.1	Reordered "ZSK a	and KSK" to "KSK and ZSK"
5.3.2	Changed	"The Operational Period of" to
		"The operational period of"
	Changed	"will never be reused to sign a resource record." to
		"are never reused."
5.4.1	Changed	"(Secret Shares) used to protect HSMs" to

Changed "private keys is generated" to "private keys is transmitted directly from the Host IS platform to the HSM." to "the "HLD/GTLD KSR are transmitted from the PIN Entry Device to the HSM. This transmission occurs on Verisign's secure infrastructure." 5.4.2 Changed "Activation data for TLD/GTLD KSR' to "Secret Shares for the HSMs that contain the TLD/GTLD KSK' Changed "After the record retention periods in section 5.2.6 lapse, Verisign will decommission activation data by overwriting and/or physical destruction." to "Verisign will decommission activation data by overwriting and/or physical destruction after decommissioning the associated HSMs." 5.5 Changed "are Trustworthy Systems secure from" to "are secured from" 5.6 Changed "Critical hardware components of the signer system (HSM)" to "performs all its online" to "performs all of its online" to "performs all of its online" to "specified life time expectancy." to "Server Operators" to "The TLD/GTLD Zone maintainer will conduct the continuous TLD/GTLD Zone signing automatically by the "TLD/GTLD Zone maintainer." to "The TLD/GTLD Zone maintainer will conduct the continuous TLD/GTLD Zone signing automatically." 6.2 Changed "In RFC 4034 [RFC 0315]" to "in RFC 4034" to "in RFC 4			
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·		Changed	
6.7 Changed "The KSK operator's" to			"set to seven days"
	6.7	Changed	"The KSK operator's" to

		T - TID /CTID 7 VCV
	Cl J	"The TLD/GTLD Zone KSK operator's"
	Changed	"data is authentic" to "data are authentic"
	Cl 1	
6.8	Changed	"The Extractor/Validator system verifies all resource record signatures
		prior" to
	(a) 1	"The extractor/validator system verifies all RRSIGs prior"
6.9	Changed	"RRtype" to
		"RR Type"
	Changed	"TTL" to
		"Time-To-Live (TTL)"
	Changed	"DNSKey" to
	Changed	"DNSKEY" "Pologotion Signey (DS)" to
	Changed	"Delegation Signer (DS)" to "DS"
	Added "MSEC 2"	with TTL "Same as the minimum TTL value field in the zone SOA RR"
	Changed	"same as the covered RR" to
	Changeu	"Same as the covered RRset"
	Added border to	
7.0	Changed	"TLD/GTLD Zone Signing services" to
7.0	diangea	" TLD/GTLD Zone signing services"
7.1	Changed	"Compliance Audits" to
7.12	J. J	"Compliance audits"
7.3	Reordered "ZSK	and KSK" to "KSK and ZSK"
7.4	Changed	"Compliance Audits" to
	3-1	"compliance audits"
	Changed	"operations such as key" to
		"operations. This includes key"
	Changed	"Infrastructure/Administrative controls" to
		"infrastructure/administrative controls"
7.5	Changed	"Compliance Audits" to
		"Compliance audits"
7.6	Removed hyper	
8.3.1		fidential/Private Information)"
	Changed	"recover such Private Keys" to
		"recover such private keys"
	Changed	", and their respective" to
		"or their respective"
	Changed	"administration of DNS Keys" to
0.2.2	Cl l	"administration of DNS keys"
8.3.2	Changed	"Public Keys, Key Revocation, and " to
	Cl J	"Public keys and" "Confidential/Private Information" to
	Changed	"confidential/private information"
8.4.1	Changed	"personally identifiable information" to
0.4.1	Changeu	"Personal Identifiable Information (PII)"
	Changed	"TLD/GTLD services" to
	Changea	"TLD/GTLD Zone services"
	Changed	"with Verisign's Privacy" to
	5	"with the terms of Verisign's Privacy"
	Removed hyper	
8.4.3	Changed	"TLD/GTLD services" to
		"TLD/GTLD Zone services"
	Changed	"personally identifiable information" to
		"PII"
	Removed hyper	
8.4.4	Changed	"Confidential/ Private Information" to

		"confidential/ private information"
8.5	Changed	"under DNSSEC Practice Statement" to
		"under this DPS"
8.5.1	Section 8.6.3 became Section 8.5.1	
	Changed	"of sixty (60) days" to
		"of 60 days"
8.5.2	Section 8.6.4 be	came Section 8.5.2
8.6.1	Changed r in "re	pository" to uppercase
	Changed r in "re	epository" to uppercase
8.6.3	Section 8.6.3 be	came Section 8.5.1
8.6.4	Section 8.6.4 be	came Section 8.5.2
Appendix A		itions" to "Terms"
A.1	Removed "Table	e of Acronyms" above table
	Changed	"Table of acronyms and definitions" to
		"Table of Acronyms and Terms" in title
	Changed	"Term" to
		"Acronym" in table
	Changed	"Definition" to
		"Term" in table
	-	n list to include only used acronyms
		n "Practices" in DPS Term
A.2	Changed	"Definitions" to
		"Terms" in title
		nition" above table
		st to include only used terms
		cessing Center, Service Center, Managed PKI Customer, or Gateway
		Compliance Audit definition
	Changed	"generated, its private key is transferred into a cryptographic module,
		its private key is backed up, and/or key sets are signed" to
		"generated within a cryptographic module" in Cryptographic Key
	Changed	Generation Ceremony definition "Delocation Signer (DS) is one of the resource records" to
	Changed	"Delegation Signer (DS) is one of the resource records" to "A resource record" in Delegation Signer definition
	Changed	"signs the key set" to
	Changeu	"signs the DNSKEY RRset" in Key Signing Key definition
	Changed	"sign the Zone file under the" to
	Changeu	"sign the zone file using the" in Online HSM definition
	Changed	"DNSSEC related information made accessible online." to
	diangea	"A location on the Verisign web site where DNSSEC related
		information is made accessible online." in Repository definition
	Changed	"A portion of a private key or a portion" to
	33333923	"A portion" in Secret Share definition
	Changed	"The zone which is one level higher." to
		"A boundary of responsibility for a domain with at least one
		subdomain." in Parent Zone
Appendix B	Changed	"History of Changes" to
``		"Changes From Previous Version" in title
	Changed	"History of Changes" to
		"Changes From Previous Version"
	Changed	"Version 1.3" to
		"Version 1.4"