

Getronics Certification Practice Statement



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1 INTRODUCTION

This document is the Getronics Certification Practice Statement ("CPS"). It describes the practices that Getronics Certification Authorities ("Getronics CAs") employ in providing certification services that include, but are not limited to, issuing, managing, revoking and renewing certificates in accordance with the specific requirements of the VeriSign Trust Network Certificate Policies ("CP") and European Directive Policies ("EDP").

The CP and EDP are the principal statements of policies governing the VeriSign Trust Network ("VTN"). The CP and EDP establish the business, legal, and technical requirements for approving, issuing, managing, using, revoking, and renewing, digital Certificates within the VTN and providing associated trust services. These requirements, called the "VTN Standards", protect the security and integrity of the VTN, apply to all VTN Participants, and thereby provide assurances of uniform trust throughout the VTN. More information concerning the VTN and VTN Standards is available in the CP.

VeriSign and each Affiliate have authority over a portion of the VTN. The portion of the VTN controlled by VeriSign or an Affiliate is called its Subdomain of the VTN. An Affiliate's Subdomain includes entities subordinate to it such as its Customers, Subscribers, and Relying Parties (collectively called the Affiliate's Subdomain Participants). Getronics, VeriSign and each of the Affiliates have a CPS that governs its Subdomain within the VTN.

The structure of this CPS generally corresponds to the 'Internet X.509 Public Key Infrastructure Certificate Policy and Certification Practices Framework' known as the RFC 3647 Standard of the Internet Engineering Task Force (see http://www.ietf.org for more information.)

Getronics operates as Certification Service Provider ("CSP") within the VTN. The name Getronics is used throughout this document and refers to Getronics as CSP in general. It does not refer to other services offered by Getronics. Getronics Nederland B.V. is explicitly mentioned whenever it is referred to.

1.1 Overview

1.1.1 Target Group and Guidelines

This CPS's primary target group consists of:

- Subscribers,
- Subjects (if applicable),
- Relying Parties.

1.1.2 CPS Purpose

Getronics currently offers Class 2 and 3 Certificates and Qualified Certificates with SSCD within its Subdomain of the VTN. This CPS describes how Getronics meets the relevant CP and EDP requirements within its Subdomain. Thus, the CPS, as a single document, covers practices and

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procedures concerning the issuance and management of the mentioned Certificate Classes. Private CAs and hierarchies managed by Getronics are outside the scope of this CPS.

This CPS describes, among other things:

- Obligations of Certification Authorities, Registration Authorities, Subscribers, and Relying Parties within Getronics' Subdomain of the VTN,
- Legal matters that are covered in Subscriber Agreements and Relying Party Agreements within Getronics' Subdomain,
- Audit and related security and practices reviews that Getronics and Getronics Subdomain Participants undertake,
- Methods used within Getronics' Subdomain to confirm the identity of Certificate Applicants for each Class of Certificate,
- Operational procedures for Certificate lifecycle services undertaken in Getronics' Subdomain: Certificate Applications, issuance, acceptance, revocation, and renewal,
- Operational security procedures for audit logging, records retention, and disaster recovery used within Getronics' Subdomain,
- Physical, personnel, key management, and logical security practices of Getronics Subdomain Participants,
- Certificate and Certificate Revocation List content within Getronics' Subdomain, and
- Administration of the CPS, including methods of amending it.

The CPS is only one of a set of documents relevant to Getronics' Subdomain of the VTN. These other documents include:

- Ancillary security and operational documents that supplement the CP and this CPS by providing more detailed requirements, such as:
 - The Getronics and VeriSign Security Policies, which sets forth security principles governing the VTN infrastructure,
 - The VeriSign Security and Audit Requirements Guide, which describes detailed requirements for Getronics concerning personnel, physical, telecommunications, logical, and cryptographic key management security,
 - The VeriSign Enterprise Security Guide, which describes detailed requirements for Managed PKI Customers concerning personnel, physical, telecommunications, logical, and cryptographic key management security, and
 - VeriSign Key Ceremony Reference Guide, which presents detailed key management operational requirements.
- Ancillary agreements imposed by Getronics, such as the Getronics Master Services Agreement and the Getronics Relying Party and Subscriber agreements. These agreements would bind Customers, Subscribers, and Relying Parties of Getronics. Among other things, the agreements flow down VTN Standards to these VTN Participants and, in some cases, state specific practices for how they must meet VTN Standards.

In many instances, the CPS refers to these ancillary documents for specific, detailed practices implementing VTN Standards where including the specifics in the CPS could compromise the security of Getronics' Subdomain of the VTN.

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1.1.3 CP/CPS Relationship

While the CP and EDP set forth requirements that VTN Participants must meet, this CPS describes how Getronics meets these requirements within Getronics' Subdomain of the VTN. More specifically, this CPS describes the practices that Getronics employs for:

- securely managing the core infrastructure that supports the VTN, and
- issuing, managing, revoking, and renewing VTN Certificates

within Getronics' Subdomain of the VTN, in accordance with the requirements of the CP/EDP and the VTN Standards.¹

1.1.4 Status

This CPS goes into effect the day it is published (see date on title page) and remains valid as long as the Getronics service continues or until the CPS is replaced by a newer version (in which case the version number is to be increased by 1 in the case of major changes or by 0.1 in the case of minor changes of an editorial nature).

1.2 Document Name and Identification

The formal name of this document is: 'Getronics Certification Practice Statement' but it may also be referred to as 'Getronics CPS' or simply 'CPS' in the course of this document. Wherever this acronym is used, this document is referred to.

VTN Certificates contain object identifier values corresponding to the applicable VTN Class of Certificate. Certificate Policy Object Identifiers are used in accordance with CPS § 7.1.6. Getronics has also assigned an object identifier value to this CPS: {joint-iso-itu-t(2) country(16) Netherlands(528) Dutch organisation(1) Getronics (1005) pki(1) policies(1) Getronics -cps(1) VTN cps.0(1)} 2.16.528.1.1005.1.1.1.

1.3 PKI Participants

The VTN community of users consists of Certification Authorities, Registration Authorities, Subscribers and Relying Parties.

1.3.1 Certification Authorities

The term Certification Authority (CA) is an umbrella term that refers to all entities authorized to issue public key certificates within the VTN. The CA term encompasses a subcategory of issuers called Primary Certification Authorities (PCA). PCAs act as roots of four domains, one for each class of

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¹ Although VeriSign CAs certify the VTN CAs of Affiliates, the practices relating to an Affiliate are covered in the Affiliate's CPS



Certificate. Each PCA is a VeriSign entity. Subordinate to the PCAs are Certification Authorities that issue Certificates to end-user Subscribers or other CAs.

Getronics enterprise customers may operate their own CAs as subordinate CAs to a Getronics CA. Such a customer enters into a contractual relationship with Getronics to abide by all the requirements of the VTN CP and the Getronics CPS. These subordinate CAs may, however implement more restrictive practices based on their internal requirements.

1.3.2 Registration Authorities

A Registration Authority is an entity that performs identification and authentication of certificate applicants for end-user certificates and initiates or passes along revocation requests for certificates for end-user certificates on behalf of a CA. Getronics may act as an RA for certificates it issues. Third parties, who enter into a contractual relationship with Getronics, may operate their own RA and authorize the issuance of certificates by a Getronics CA. Third party RAs must abide by all the requirements of the VTN CP, the Getronics CPS and the terms of their enterprise services agreement with Getronics. RAs may, however implement more restrictive practices based on their internal requirements.²

Where Registration Authorities have relevant practices that deviate from these, they are described in a Registration Authority specific annex. At this moment the practices of Credoc Services CA are described in Annex 3.

1.3.3 Subscribers

Subscribers under the VTN include all end users (including entities) of certificates issued by a VTN CA. A subscriber is the entity named as the end-user Subscriber of a certificate. End-user Subscribers may be individuals, organizations, or infrastructure components such as firewalls, routers, trusted servers or other devices used to secure communications within an Organization. In some cases certificates are issued directly to individuals or entities for their own use. However, there commonly exist other situations where the party requiring a certificate is different from the subject to whom the credential applies. For example, an organization may require certificates for its employees to allow them to represent the organization in electronic transactions/business. In such situations the entity subscribing for the issuance of certificates (i.e. paying for them, either through subscription to a specific service, or as the issuer itself) is different from the entity which is the subject of the certificate (generally, the holder of the credential). Two different terms are used in this CPS to distinguish between these two roles: "Subscriber", is the entity which contracts with VeriSign for the issuance of credentials and; "Subject", is the person to whom the credential is bound. The Subscriber bears ultimate responsibility for the use of the credential but the Subject is the individual that is authenticated when the credential is presented. When 'subject' is used, it is to indicate a distinction from the Subscriber. When "Subscriber" is used it may mean just the Subscriber as a distinct entity but it may also include the Subject. The context of its use in this CPS will invoke the correct understanding.

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 $^{^{\}rm 2}$ An example of a third party RA is a Managed PKI services customer.



CAs are technically also subscribers of certificates within the VTN, either as a PCA issuing a self signed Certificate to itself, or as a CA issued a Certificate by a superior CA. References to "end entities" and "subscribers" in this CPS, however, apply only to end-user Subscribers.

1.3.4 Relying Parties

A Relying Party is an individual or entity that acts in reliance on a certificate and/or a digital signature issued under the VTN. A Relying party may, or may not also be a Subscriber within the VTN.

1.3.5 Other Participants

1.4 Certificate Usage

Certificates issued by Getronics are issued in accordance with the requirements of the VTN CP. Qualified Certificates are issued in accordance with the requirements of the VTN EDP.

1.4.1 Appropriate Certificate Usages

1.4.1.1 Certificates Issued to Individuals

Individual Certificates are normally used by individuals to sign and encrypt e-mail and to authenticate to applications (client authentication). While the most common usages for individual certificates are included in Table 1 below, an individual certificate may be used for other purposes, provided that a Relying Party is able to reasonably rely on that certificate and the usage is not otherwise prohibited by law, by the VTN CP, by any CPS under which the certificate has been issued and any agreements with Subscribers.

Certificate Class	Assurance Level		Usage		
	Medium assurance	High assurance	Signing	Encryption	Client Authentication
Class 2	Х		Х	Х	Х
Class 3		Х	Х	Х	Х
Qualified Certificates		Х	Х	X	Х

Table 1. Individual Certificate Usage

1.4.1.2 Certificates Issued to Organizations

Organizational Certificates are issued to organizations after certifying that the Organization legally exists and that other Organization attributes included in the certificate (excluding non-verified subscriber information) are authenticated e.g. ownership of an Internet or e-mail domain.

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It is not the intent of this CPS to limit the types of usages for Organizational Certificates. While the most common usages are included in Table 2 below, an organizational certificate may be used for other purposes, provided that a Relying Party is able to reasonably rely on that certificate and the usage is not otherwise prohibited by law, by the VTN CP, by any CPS under which the certificate has been issued and any agreements with Subscribers.

Certificate Class	Assurance Level		Usage		
	Medium assurance	High assurance	Secure SSL/TLS- sessions	Authentication	Signing and encryption
Class 3		Х	Х	Х	Х

Table 2. Organizational Certificate Usage

1.4.1.3 Assurance levels

Medium assurance certificates are certificates that are suitable for securing some inter- and intraorganizational, commercial, and personal e-mail, requiring a medium level of assurances of the Subscriber identity, in relation to Class 3 and Qualified Certificates.

High assurance certificates are individual and organizational Class 3 Certificates and qualified certificates that provide a high level of assurance of the identity of the Subscriber in comparison with the level provided by Class 1 and 2.

1.4.2 Prohibited Certificate Uses

Certificates shall be used only to the extent the use is consistent with applicable law, and in particular shall be used only to the extent permitted by applicable export or import laws. Getronics Certificates are not designed, intended, or authorized for use or resale as control equipment in hazardous circumstances or for uses requiring fail-safe performance such as the operation of nuclear facilities, aircraft navigation or communication systems, air traffic control systems, or weapons control systems, where failure could lead directly to death, personal injury, or severe environmental damage. CA Certificates may not be used for any functions except CA functions. In addition, end-user Subscriber Certificates shall not be used as CA Certificates.

Getronics periodically re-keys Intermediate CAs. Third party applications or platforms that have an Intermediate CA embedded as a root certificate may not operate as designed after the Intermediate CA has been re-keyed. Getronics therefore does not warrant the use of Intermediate CAs as root certificates and recommends that Intermediate CAs not be embedded into applications and/or platforms as root certificates.

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1.5 CPS Administration

1.5.1 Organization Administering the Document

The organization administering this CPS is the Getronics Policy Management Authority ("PMA"). Inquiries to Getronics -s PMA should be addressed as follows:

Getronics Nederland B.V. Attn: Security & Continuity Services, Policy Management Authority Fauststraat 1 P.O. Box 9105 7300 HN Apeldoorn The Netherlands Phone: +31 (0) 20 570 4511 E-mail: <u>pkisupport@getronics.com</u>

1.5.2 Contact Person

Address inquiries about the CPS to the address identified in CPS § 1.5.1

For commercial questions on certificates and related services write to <u>pkisales@getronics.com</u>. More information on Certification Services offered by Getronics can be found in the Electronic Repository at <u>www.getronics.nl</u>. These Certification Services were originally marketed by Getronics PinkRoccade B.V., a branch of Getronics N.V.

Other documents pertaining to services related to Getronics Certificates can be found in the Electronic Repository.

1.5.3 Person Determining CP Suitability for the Policy

The organization identified in CPS § 1.5.1 is responsible for determining whether this CPS and other documents in the nature of certification practice statements that supplement or are subordinate to this CPS are suitable and applicable under the CP, EDP and this CPS.

1.5.4 CPS Approval Procedure

Approval of this CPS and subsequent amendments shall be made by the PMA. Amendments shall either be in the form of a document containing an amended form of the CPS or an update notice. Amended versions or updates shall be linked to the Practices Updates and Notices section of the Getronics Repository located at: <u>www.pki.getronicspinkroccade.nl</u>. Updates supersede any designated or conflicting provisions of the referenced version of the CPS.

1.6 Definitions and Acronyms

See Appendix 1 and 2 for tables of acronyms and definitions.

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2 Publication and Repository Responsibilities

2.1 Repository

Getronics is responsible for the repository functions for its own CAs and the CAs of its customers. Getronics publishes Certificates it issues in the Getronics repository in accordance with CPS § 2.2.

Upon revocation of an end-user Subscriber's Certificate, Getronics publishes notice of such revocation in the repository. Getronics issues CRLs for its own CAs and customers within its Subdomain, pursuant to the provisions of this CPS. In addition, for customers who have contracted for Online Certificate Status Protocol ("OCSP") services, Getronics provides OCSP services pursuant to the provisions of this CPS.

2.2 Publication of Certificate Information

VeriSign maintains and is responsible for a web-based repository function for VeriSign's Public Primary Certification Authorities (PCAs) and VeriSign Infrastructure/Administrative CAs supporting the VTN. See <u>www.verisign.com</u>. Among other documents, VeriSign publishes the VTN CP and EDP in this repository.

Getronics maintains and is responsible for the repository function within Getronics' Subdomain of the VTN.

Getronics therefore maintains a web-based repository. See https://www.pki.getronicspinkroccade.nl/repository/

Getronics will at all times publish a current version of:

- This CPS
- VTN CP and EDP
- Subscriber Agreements
- Relying Party Agreements
- Recent copies of its ETSI TS 101 456-certificates.

Getronics Nederland B.V.'s ETSI TS 101 456 Certificates are published in the repository. These certificates indicate that Getronics Nederland B.V. meets the "*ETSI TS 101 456 Policy requirements for certification authorities issuing qualified certificates*" and thus also meets the requirements of the Dutch Law on Electronic Signatures ("*Wet Elektronische Handtekeningen*" - WEH).

Furthermore, the Repository permits Relying Parties to make online inquiries regarding revocation and other Certificate status information. Getronics provides Relying Parties with information on how to find the appropriate repository to check Certificate status and, if OCSP (Online Certificate Status Protocol) is available, how to find the right OCSP responder.

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Getronics publishes the Certificates it issues on behalf of its own CAs and the CAs of customers in it's Subdomain. Upon revocation of an end-user Subscriber's Certificate, Getronics shall publish notice of such revocation in the Repository. In addition, Getronics issues Certificate Revocation Lists (CRLs) and, if available, provides OCSP services (Online Certificate Status Protocol) for its own CAs and the CAs of Service Centers within its Subdomain.

Getronics publishes Certificates in accordance with Table 3 below.

Certificate Type	Publication Requirements
VeriSign PCA and VeriSign Issuing Root CA Certificates	Available to Relying Parties through inclusion in current browser software and as part of a Certificate Chain that can be obtained with the end-user Subscriber Certificate through the query functions described below.
Getronics Issuing CA Certificates	Available to Relying Parties as part of a Certificate Chain that can be obtained with the end-user Subscriber Certificate through the query functions described below.
Certificate of the Getronics CA supporting Managed PKI Lite Certificates and CA Certificates of Managed PKI Customers	Available through query of the Getronics LDAP directory server at directory.pinkroccade.com
OCSP Responder Certificates	Available through query of the Getronics LDAP directory server at directory.pinkroccade.com
End-User Subscriber Certificates	Available to Relying Parties through query functions in the Getronics repository at: <u>http://www.pki.getronicspinkroccade.nl/website/176/</u>
End-User Subscriber Certificates issued through Managed PKI Customers	Made available through the query functions listed above, although at the discretion of the Managed PKI Customer, the Certificate may be accessible only via a search using the Certificate's serial number.

Table 3 – Certificate Publication Requirements

2.3 Certificate Publication

Issued Certificates are published in the Directory Service.

2.4 Time or Frequency of Publication

Changes in CSP-information, except for what follows in this paragraph, are published as soon as they occur or as soon as possible after the change occurs, in accordance with the applicable stipulations (e.g. see § 9.12 Amendments).

Certificates are published as soon as they are produced. The CRL is refreshed once very four hours.

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2.5 Access Controls on Repositories

Information published in the repository portion of the Getronics web site is publicly accessible information. Read only access to such information is unrestricted. Getronics requires persons to agree to a Relying Party Agreement as a condition for accessing Certificates, Certificate status information, or CRLs.

Getronics has implemented personal, organizational, physical and logical security measures, and furthermore uses Trustworthy Systems to prevent unauthorized persons from adding, deleting, or modifying repository entries.

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3 Identification and Authentication

This section describes the process used to identify and authenticate certificate applicants during the initial registration procedure. It also describes Getronics' naming criteria.

3.1 Naming

Unless indicated otherwise in the CP, EDP and/or this CPS or the content of the digital certificate, names appearing in Certificates issued under VTN are authenticated.

3.1.1 Types of Names

Getronics CA Certificates contain X.501 Distinguished Names in the Issuer and Subject fields. Getronics CA Distinguished Names consist of the components specified in Table 4 below.

Attribute	Value
Country (C) =	"NL" or not used.
Organization (O) =	Getronics, Getronics PinkRoccade, PinkRoccade or Roccade.
Organizational Unit (OU) =	 Getronics CA Certificates may contain multiple OU attributes. Such attributes may contain one or more of the following: CA Name VeriSign Trust Network A statement referencing the applicable Relying Party Agreement governing terms of use of the Certificate and A copyright notice.
State or Province (S) =	Not used.
Locality (L) =	Not used.
Common Name (CN) =	This attribute includes the CA Name (if the CA Name is not specified in an OU attribute) or is not used.

Table 4 – Distinguished Name Attributes in CA Certificates

End-user Subscriber Certificates, issued under either a CA governed by Getronics' VTN Subdomain or a VeriSign CA, contain an X.501 distinguished name in the Subject name field and consist of the components specified in Table 5 below.

Attribute	Value
Country (C) =	NL or US or not used.
Organization (O) =	The Organization attribute is used as follows:
	Getronics, Getronics PinkRoccade, PinkRoccade or Roccade
	for PinkRoccade OCSP Responder and individual
	Certificates.
	Subscriber organizational name for web server Certificates

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Attribute	Value
	and Qualified Certificates.
Organizational Unit (OU) =	 End-user Subscriber Certificates may contain multiple OU attributes. Such attributes may contain one or more of the following: Subscriber organizational unit (for organizational Certificates) VeriSign Trust Network A statement referencing the applicable Relying Party Agreement governing terms of use of the Certificate A copyright notice "Authenticated by PinkRoccade" and "Member, VeriSign Trust Network" in Certificates whose applications were authenticated by PinkRoccade Text to describe the type of Certificate.
State or Province (S) =	Indicates the Subscriber's State or Province or not used.
Locality (L) =	Indicates the Subscriber's Locality or not used.
Common Name (CN) =	 This attribute includes: The OCSP Responder Name (for OCSP Responder Certificates) Domain name (for web server Certificates) Name (for individual Certificates).
E-Mail Address (E) =	E-mail address (for individual Certificates)

Table 5 – Distinguished Name Attributes in End User Subscriber Certificates

The Common Name (CN=) component of the Subject distinguished name of end-user Subscriber Certificates is authenticated in the case of Class 2-3 Certificates and Qualified Certificates.

The authenticated common name value included in the Subject distinguished names of organizational Certificates is a domain name (in the case of Standard SSL IDs and Premium SSL IDs) or the legal name of the organization or unit within the organization.

The authenticated common name value included in the Subject distinguished name of a Class 3 Organizational Certificate, however, is the generally accepted personal name of the organizational representative authorized to use the organization's private key, and the organization (O=) component is the legal name of the organization.

The common name value included in the Subject distinguished name of individual Certificates represents the individual's generally accepted personal name.

3.1.2 Need for Names to be Meaningful

Class 2 and 3 end-user Subscriber Certificates and Qualified Certificates contain names with commonly understood semantics permitting the determination of the identity of the individual or organization that is the Subject of the Certificate.

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Getronics CA Certificates contain names with commonly understood semantics permitting the determination of the identity of the CA that is the Subject of the Certificate.

3.1.3 Anonymity or Pseudonymity of Subscribers

For Class 2 and 3 end-user Subscriber Certificates, end-user Subscriber pseudonyms (names other than a Subscriber's true personal or organizational name) are not permitted. The use of pseudonyms for subject names is permitted only for Qualified Certificates. Getronics shall ensure that the requirements of the national data protection legislation are adhered to during the pseudonym registration process.

3.1.4 Rules for Interpreting Various Name Forms

No stipulation.

3.1.5 Uniqueness of Names

Getronics ensures that Subject Distinguished Names are unique within the domain of a specific CA through automated components of the Subscriber enrollment process. It is possible for a Subscriber to have two or more certificates with the same Subject Distinguished Name.

3.1.6 Resolving Name Claim Disputes

In cases where parties do not agree on the usage of names, Getronics will decide which name to use after taking into account the interests of the parties, in far as this is not covered by imperative Dutch law or other relevant laws.

3.1.7 Recognition, Authentication, and Role of Trademarks

Certificate Applicants are prohibited from using names in their Certificate Applications that infringe upon the Intellectual Property Rights of others. Getronics, however, does not verify whether a Certificate Applicant has Intellectual Property Rights in the name appearing in a Certificate Application or arbitrate, mediate, or otherwise resolve any dispute concerning the ownership of any domain name, trade name, trademark, or service mark. Getronics is entitled, without liability to any Certificate Applicant, to reject or suspend any Certificate Application because of such disputes.

In the case of Qualified Certificates, the name used for an organizational entity is the name it is registered under in an official registry, or the name used in the law or the ordinance under which it was founded. Getronics is entitled to make changes to name attributes should they prove to be in breach of a trademark or other intellectual property rights.

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3.2 Initial Identity Validation

3.2.1 Method to Prove Possession of Private Key

The Certificate Applicant must demonstrate that it rightfully holds the private key corresponding to the public key to be listed in the Certificate. The method of proving possession of a private key shall be PKCS #10, an other cryptographically equivalent demonstration, or an other Getronics approved method. This requirement does not apply where a key pair is generated by a CA on behalf of a Subscriber, e.g. pregenerated keys placed on SSCD's.

3.2.2 Authentication of Organizational Identity

Whenever a certificate contains an organization's name, the identity of the organization and other enrollment information provided by Certificate Applicants is confirmed in accordance with the procedures set forth in Getronics' documented Validation Procedures.

At a minimum Getronics shall:

- Determine that the organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government agency or competent authority that confirms the existence of the organization,
- Confirm by telephone, confirmatory postal mail, or comparable procedure to the Certificate Applicant certain information about the organization, that the organization has authorized the Certificate Application, and that the person submitting the Certificate Application on behalf of the Certificate Applicant is authorized to do so. When a certificate includes the name of an individual as an authorized representative of the Organization, the employment of that individual and his/her authority to act on behalf of the Organization shall also be confirmed.

Where a domain name or e-mail address is included in the certificate, Getronics authenticates the Organization's right to use that domain name either as a fully qualified Domain name or an e-mail domain.

Additional checks necessary to satisfy United States export regulations and licenses issued by the United States Department of Commerce Bureau of Industry and Science ("BIS") are performed by Getronics when required.

Additional procedures are performed for specific types of Certificates as described in Table 6 below. Certificate Type Additional Procedures

Certificate Type	Additional Procedures
All Server Certificates	Getronics verifies that the Certificate Applicant is the record owner of the domain name of the server that is the Subject of the Certificate or is otherwise authorized to use the domain.
Premium SSL IDs	Getronics performs the additional checks necessary to satisfy United States export regulations and licenses issued by the United States Department of Commerce Bureau of Export Administration ("BXA").
Qualified Certificates	The responsible senior management from the applying organization

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Certificate Type	Additional Procedures
	authorizes one or more Contact person(s) in written form. The Contact person is authorized to apply for, revoke and renew Qualified Certificates and fulfill all corresponding responsibilities and obligations, on behalf of the organization.
	The Certificate Application has to include proof of the Organizational existence and identity.
	Getronics verifies the Organizational data and documents, via an out- of-band check and other verification methods.

Table 6 – Specific Authentication Procedures

3.2.3 Authentication of Individual Identity

Authentication of individual identity differs according to the Class of Certificate. The minimum authentication standard for each class of VTN certificate Getronics supplies, is explained in the following paragraphs.

3.2.3.1 Class 2

The subscriber/applicant proves his/her identity. Getronics authenticates identity by matching the identity provided by the subscriber to:

- Information residing in the database of a VeriSign/ Getronics approved identity proofing service, such as a major credit bureau of other reliable source of information provision, or
- Information contained in the business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals.

3.2.3.2 Qualified Certificates

The authentication of Qualified Certificates is based on the direct personal (physical) presence of the Certificate Applicant before Getronics or an agent of Getronics. During the direct physical presence of the Certificate Applicant, Getronics or an agent of Getronics shall check the identity of the Certificate Applicant against one of the following government issued identification documents: passport or national identity card. Getronics will archive a copy of the presented identity document for reconstruction purposes. The Certificate Application includes a copy of the identity documents of the Certificate Applicants and the following data of the Certificate Applicants:

- full names
- name of partner, if applicable
- date and place of birth
- nationality
- e-mail address

Getronics considers the signature of the Contact person under the Certificate Application to be proof that the Certificate Applicant is authorized to receive a Qualified Certificate on behalf of the

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Subscriber's Organization. Getronics or an agent of Getronics verifies and validates that the data in the Certificate Application is complete and correct, and that the copy of the identity document is valid.

3.2.3.3 Class 3 Individual Certificates

3.2.3.3.1 Class 3 Administrator Certificates

The authentication of Class 3 individual Certificates is based on the personal (physical) presence of the Certificate Applicant before an agent of the CA or RA. The agent shall check the identity of the Certificate Applicant against a well recognized form of government issued photographic identification, such as a passport or driver's license and one other identification credential.

The authentication of Class 3 Administrator certificates is based on authentication of the organization and a confirmation from the organization of the employment and authorization of the person to act as Administrator.

Getronics may also have occasion to approve Certificate Applications for their own Administrators. Administrators are "Trusted Persons" within an organization. In this case, authentication of their Certificate Applications shall be based on confirmation of their identity in connection with their employment or retention as an independent contractor and background checking procedures.

Getronics may approve Administrator Certificates to be associated with a non-human recipient such as a device, or a server. Authentication of a Class 3 Administrator Certificate Applications for a nonhuman recipient shall include:

- Authentication of the existence and identity of the service named as the Administrator in the Certificate Application
- Authentication that the service has been securely implemented in a manner consistent with it performing an Administrative function
- Confirmation of the employment and authorization of the person enrolling for the Administrator certificate for the service named as Administrator in the Certificate Application.

3.2.4 Non-Verified Subscriber Information

Non-verified subscriber information includes:

- Organization Unit (OU)
- Any other information designated as non-verified in the certificate.

3.2.5 Validation of Authority

Whenever an individual's name is associated with an Organization name in a certificate in such a way as to indicate the individual's affiliation or authorization to act on behalf of the Organization VeriSign or a RA:

 determines that the organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and

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• Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization.

3.2.5.1 Qualified Certificates: Validation of Authority

The authorization of an end-user Subscriber to receive and use an organization's certificate is based on the signing of the Certificate Application on behalf of the Subscriber.

The Subscriber Agreement stipulates that the Subscriber is required to immediately revoke the Certificate if relevant changes take place in the relationship between the Subscriber and the end-user Subscriber. Termination of employment or suspension are examples of such relevant changes.

3.2.6 Criteria for Interoperation

Interoperation of qualified certificates is regulated in the Dutch Law on Electronic Signatures.

VeriSign may provide interoperation services that allow a non-VTN CA to be able to interoperate with the VTN by unilaterally certifying that CA. CAs enabled to interoperate in this way will comply with the VTN CP as supplemented by additional policies when required.

VeriSign shall only allow interoperation with the VTN of a non-VeriSign CA in circumstances where the CA, at a minimum:

- Enters into a contractual agreement with VeriSign
- Operates under a CPS that meets VTN requirements for the classes of certificates it will issue³
- Passes a compliance assessment before being allowed to interoperate
- Passes an annual compliance assessment for ongoing eligibility to interoperate.

3.3 Identification and Authentication for Re-key Requests

Prior to the expiration of an existing Subscriber's Certificate, it is necessary for the Subscriber to obtain a new certificate to maintain continuity of Certificate usage. Getronics generally requires that the Subscriber generate a new key pair to replace the expiring key pair (technically defined as a "re-key") However, in certain cases (i.e., for web server certificates) Subscribers may request a new certificate for an existing key pair (technically defined as a "renewal").

³ Customers of VeriSign's Certificate Interoperability Service (CIS) are encouraged, but not required, to have their own CPS under the Certificate Interoperability Service (CIS) CP Supplement, but in all cases must comply with VeriSign's Certificate Interoperability Service (CIS) CP Supplement, published in the VeriSign Repository

Generally speaking, both "Re-key" and "Renewal" are commonly described as "Certificate Renewal", focusing on the fact that the old Certificate is being replaced with a new Certificate and not emphasizing whether or not a new key pair is generated. For all Classes and Types of Getronics Certificates, except for Class 3 Server Certificates, this distinction is not important as a new key pair is always generated as part of Getronics' end-user Subscriber Certificate replacement process. However, for Class 3 Server Certificates, because the Subscriber key pair is generated on the web server and most web server key generation tools permit the creation of a new Certificate Request for an existing key pair, there is a distinction between "re-key" and "renewal."

3.3.1 Identification and Authentication for Routine Re-key

Re-key procedures ensure that the person or organization seeking to re-key an end-user Subscriber Certificate is in fact the Subscriber of the Certificate.

One acceptable procedure is through the use of a Challenge Phrase (or the equivalent thereof), or proof of possession of the private key. Subscribers choose and submit a Challenge Phrase with their enrollment information. Upon renewal of a Certificate, if a Subscriber correctly submits the Subscriber's Challenge Phrase (or the equivalent thereof) with the Subscriber's re-enrollment information, and the enrollment information (including Corporate and Technical contact information) has not changed, a renewal Certificate is automatically issued. As an alternative to using a challenge phrase (or equivalent) Getronics may send an e-mail message to the e-mail address associated with the verified corporate contact for the certificate being renewed, requesting confirmation of the Certificate renewal order and authorization to issue the Certificate. Upon receipt of confirmation authorizing issuance of the Certificate, Getronics will issue the Certificate if the enrollment information (including Corporate and Technical contact information (including Corporate and Technical contact information) has not changed.

After re-keying or renewal in this fashion, and on at least alternative instances of subsequent rekeying or renewal thereafter, Getronics or the RA reconfirms the identity of the Subscriber in accordance with the identification and authentication requirements of an original Certificate Application.⁵

In particular, for subsequent re-key requests for retail Class 3 Organizational SSL Certificates, Getronics reauthenticates the Organization name and domain name included in the certificate. In circumstances where:

- The challenge phrase is correctly used for the subsequent renewal certificate, or a confirmatory response is obtained to an e-mail to the corporate contact and:
- The certificate Distinguished Name has not been changed, and
- The Corporate and Technical Contact information remains unchanged from that which was previously verified,

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⁴ If contact information has changed via an approved formal contact change procedure the certificate shall still qualify for automated renewal.

⁵ The authentication of a request to re-key/renew a Class 3 Organizational ASB Certificate, however, requires the use of a Challenge Phrase as well as the same identification and authentication as for the original Certificate Application.

VeriSign will not have to reconfirm by telephone, confirmatory postal mail, or comparable procedure to the Certificate Applicant certain information about the organization, that the organization has authorized the Certificate Application, and that the person submitting the Certificate Application on behalf of the Certificate Applicant is authorized to do so.

Re-key requests received more than 30 days after expiration of the Certificate are reauthenticated as an original Certificate Application and are not automatically issued.

As a condition of approving the renewal of a Qualified Certificate, the applicable CA or RA shall reconfirm the identity of the Subscriber in accordance with the requirements specified in CPS § 4.1 for the authentication of an original Certificate Application and check that the information used to verify the identity of the Subscriber is still valid.

The Getronics CA-Certificate is not routinely renewed. The validity of the CA-Certificate is extended around five years before its expiration (if so desired) or it is renewed if there has been a change in information it contains. It is also renewed if the key-pair validity is in danger of expiring. Renewal of the CA-Certificate is carried out in accordance with a strict procedure.

3.3.2 Identification and Authentication for Re-key After Revocation

Re-key/renewal after revocation is not permitted if the revocation occurred because:

- the Certificate was issued to a person other than the one named as the Subject of the Certificate, or
- the Certificate was issued without the authorization of the person or entity named as the Subject of such Certificate, or
- the entity approving the Subscriber's Certificate Application discovers or has reason to believe that a material fact in the Certificate Application is false, or
- For any other reason deemed necessary by Getronics to protect the VTN

Subject to the foregoing paragraph, renewal of an organizational or CA Certificate following revocation of the Certificate is permissible as long as renewal procedures ensure that the organization or CA seeking renewal is in fact the Subscriber of the Certificate. Renewed organizational Certificates shall contain the same Subject distinguished name as the Subject distinguished name of the organizational Certificate being renewed.

During renewal of an individual Certificate following revocation Getronics must ensure that the person seeking renewal is, in fact, the Subscriber. One acceptable procedure is the use of a Challenge Phrase (or the equivalent thereof). Other than this procedure or another VeriSign approved procedure, the requirements for the identification and authentication of an original Certificate Application shall be used for renewing a Certificate following revocation.

Renewal of a qualified certificate is done the same way as the first application for a certificate.

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3.4 Identification and Authentication for Revocation Request

Prior to the revocation of a Certificate, Getronics verifies that the revocation has been requested by the Certificate's Subscriber, the entity that approved the Certificate Application.

Acceptable procedures for authenticating the revocation requests of a Subscriber include:

- Having the Subscriber for certain certificate types submit the Subscriber's Challenge Phrase (or the equivalent thereof), and revoking the Certificate automatically if it matches the Challenge Phrase (or the equivalent thereof) on record.
- Receiving a message from the Subscriber that requests revocation and contains a digital signature verifiable with reference to the Certificate to be revoked,
- Communication with the Subscriber providing reasonable assurances in light of the Class of Certificate that the person or organization requesting revocation is, in fact, the Subscriber. Such communication, depending on the circumstances, may include one or more of the following: telephone, facsimile, e-mail, postal mail, or courier service.

Getronics Administrators are entitled to request the revocation of end-user Subscriber Certificates within Getronics' Subdomain. Getronics authenticates the identity of Administrators via access control using SSL and client authentication before permitting them to perform revocation functions, or other VTN approved procedures.

RAs using an Automated Administration Software Module may submit bulk revocation requests to Getronics. Such requests shall be authenticated via a digitally signed request signed with the private key in the RA's Automated Administration hardware token.

Requests to revoke a CA Certificate shall be authenticated by Getronics to ensure that the revocation has in fact been requested by the CA.

3.4.1 Qualified Certificates

Revocation requests for Qualified Certificates can be submitted via the following procedures:

Contact person:

- Online self-service; the Contact person can use the online self-service to search for the Certificate that needs to be revoked, supply the reason for revocation and authorize the revocation request with the corresponding Challenge Phrase.
- Signed letter; the Contact person requests revocation by sending a signed letter to Getronics Validation, detailing the name of the Subject, subject serial number, reason for revocation and certificate number.

Subject:

• Online self-service; the Subject can use the online self-service to search for the Certificate that needs to be revoked, supply the reason for revocation and authorize the revocation request with the corresponding Challenge Phrase.

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Getronics :

• Getronics is authorized to revoke certificates. Relying Parties may notify Getronics of irregularities with a certain Qualified Certificate. Getronics will research this notification and will, if necessary, revoke the Qualified Certificate in question.

Authorized revocation requests via the Self-service portal will be processed promptly, the publication of the status change will occur within 24 hours after the revocation request.

If a revocation of a certain certificate needs to be performed urgently, one has to use the self-service revocation pages. The self-service pages are available 24 hours a day, 7 days a week. Getronics will process revocation requests via fax and e-mail on the next business day.

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4 Certificate Life-Cycle Operational Requirements

4.1 Certificate Application

4.1.1 Who Can Submit a Certificate Application

Only an authorized representative of an Organization or entity, including an authorized representative of a CA or a RA, may submit certificate applications.

4.1.2 Responsibilities and Obligations

The obligations and responsibilities of parties involved - Getronics, Subscriber and Relying Party - have been described in the Subscriber and Relying Party Agreement.

4.1.2.1 Responsibilities and Obligations of the CSP

Getronics is ultimately responsible for the complete certification service and guarantees its Subscribers and Relying Parties that it will adhere to the applicable General and Specific Conditions, the CPS and all applicable CPs.

Getronics is responsible for the outsourcing of the identification of subjects in case of qualified certificates.

4.1.2.2 Responsibilities and Obligations of the Client

The Subscriber is responsible for correctly supplying all necessary information for the production and issuance of certificates and for the correct usage of those certificates. The Subscriber guarantees to Getronics and Relying Parties that it will adhere to the applicable General and Specific Conditions, the CPS and all applicable CPs.

4.1.2.3 Responsibilities and Obligations of the End-user Subscriber

The Subject, as the one who holds the Certificate that has been requested on behalf of the Subscriber , is also responsible for correctly supplying all necessary information for the production and issuance of certificates and for the correct usage of those certificates. The Subject guarantees Getronics, the Subscriber and the Relying Parties that he/she will adhere to the applicable General and Specific Conditions, the CPS and all applicable CPs.

4.1.2.4 Responsibilities and Obligations of the Relying Party

The Relying Party is responsible for correctly trusting a Certificate and guarantees Getronics, the Subject and the Subscriber that it will adhere to the applicable General and Specific Conditions, the CPS and all applicable CPs.

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4.1.3 Enrollment Process and Responsibilities

All end-user Certificate Subscribers shall manifest assent to the relevant Subscriber Agreement that contains representations and warranties described in § 9.6.3 and undergo an enrollment process consisting of:

- completing a Certificate Application and providing true and correct information,
- generating, or arranging to have generated, a key pair,
- delivering his, her, or its public key, directly or through an RA, to Getronics,
- demonstrating possession of the private key corresponding to the public key delivered to Getronics.

Getronics has identified two steps in the processing of an application it receives. The first step in processing an application consists of registering the application, determining the completeness and accuracy of the application and supporting documents, and reaching a decision on the application. The second step entails the execution of the decision, the production and issuance of the certificate, and the informing of those involved.

4.1.3.1 Certificate Applications for Qualified Certificates

The enrollment process for Qualified Certificates is also subject to the following clarifications:

- The Subscriber Obligations, to which Certificate Applicants manifest assent, are communicated,
- The Certificate Applicant shall present evidence of identity, and
- The enrollment information provided in the Certificate Application shall include a physical address of the Contact person, or other attributes, that enable the CA or RA to communicate with the Subscriber.
- Records retained include the information used to authenticate the Certificate Applicant's identity (including any reference number on the documentation used for authentication and any limitations on its validity) and a record of the signed subscriber agreement, whether in paper or electronic form.

4.1.3.2 CA and RA Certificates

Subscribers of CA and RA Certificates enter into a contract with Getronics. CA and RA Applicants shall provide their credentials to demonstrate their identity and provide contact information during the contracting process. During this contracting process or, at the latest, prior to the Key Generation Ceremony to create a CA or RA key pair, the applicant shall cooperate with Getronics to determine the appropriate distinguished name and the content of the Certificates to be issued by the applicant.

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4.2 Certificate Application Processing

4.2.1 Subject Registration (for Qualified Certificates only)

Before an organization can apply for certificates, it needs to register as a Getronics Certification Service Provision Subscriber. This can be done by filling out the supplied form and mailing it to Getronics, together with all requested supporting documents proving the identity of the organization. Detailed instructions on how to fill out the form are included with the form. There are also forms available to inform Getronics of changes in the information given during Subscriber registration.

The authorization of one or more contact persons is a part of the Subscriber registration. The contact person(s) must be authorized to: apply for certificates, authorize other contact persons and/or revoke certificates. Authorization takes place when the Authorized Representative of the Subscriber signs the Subscriber registration form (please also refer to § 3.2.5.1).

After receiving the forms, Getronics will judge their completeness and accuracy. A registration form can only be accepted if it is completely filled out so that the accuracy of the information it contains can be verified. If the form is not accurate and/or complete, the Subscriber that submitted the Certificate application will be contacted.

Once the Subscriber registration form has been approved, the Subscriber is registered and may proceed to submit applications for Certificates. The Subscriber will be informed in writing whether their registration has been approved or not.

4.2.2 Performing Identification and Authentication Functions

For all Certificates, except Qualified Certificates, Getronics or an RA shall perform identification and authentication of all required Subscriber information in terms of § 3.2.

4.2.3 Applying for Qualified Certificates

The procedure for processing applications for Qualified Certificates consists of the following steps:

- 1. The Subscriber fills in a certificate application form for an end-user Subscriber and in so doing agrees, among others, to abide by the Subscriber Agreement. Detailed instructions for filling out the form are included with the form.
- 2. The Subscriber signs the application form and sends it to Getronics, together with a copy of the end-user Subscriber's passport or other form of identification.
- 3. Getronics receives the Certificate application and, after checking it for completeness and accuracy, decides whether or not to approve it.
- 4. If Getronics approves the Certificate application, the keys are first generated and then the Certificate is generated. At this time, Getronics also generates the secret access codes for the SSCD and the revocation codes for the Certificate.
- 5. The SSCD containing the certificates are sent by mail to the residential address of the end-user Subscriber. The SSCD is sent together with a request for identification / proof of delivery. The end-user Subscriber must take this request for identification / proof of delivery to a GWK Travelex

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office where they must prove their identity by showing the same form of identification as was sent with the Certificate application. At the same time he/she must sign the proof of delivery.

- 6. GWK Travelex confirms the identity of the end-user Subscriber, makes a copy of their proof of identity and sends this copy to Getronics, together with the signed proof of delivery. GWK Travelex also confirms the identification to Getronics electronically.
- 7. As soon as Getronics receives this electronic confirmation of identity, it mails the document containing the secret access codes for the SSCD and the revocation codes for the Certificate to the business address of the end-user Subscriber.

For an additional fee, Getronics continues to offer end-user Subscribers the possibility of identifying themselves at an agreed time and location other than that mentioned above.

4.2.4 Approval or Rejection of Certificate Applications

Getronics, or an RA, will approve an application for a certificate if the following criteria are met:

- Successful identification and authentication of all required Subscriber information in terms of § 3.2,
- Payment information has been received.

Getronics, or an RA, will reject a certificate application if:

- Identification and authentication of all required Subscriber information in terms of § 3.2 cannot be completed, or
- The Subscriber fails to furnish supporting documentation upon request, or
- The Subscriber fails to respond to notices within a specified time, or
- Payment information has not been received, or
- The RA believes that issuing a certificate to the Subscriber may bring the VTN into disrepute.

4.2.5 Time to Process Certificate Applications

Getronics takes 2 to 5 business days to process certificate applications for VTN end-entity certificates. Qualified Certificates take a maximum of 10 business days.

4.3 Certificate Issuance

4.3.1 CA Actions during Certificate Issuance

A Certificate is created and issued following the approval of a Certificate Application by Getronics or following receipt of an RA's request to issue the Certificate. Getronics or VeriSign create and Getronics issues to a Certificate Applicant a Certificate based on the information in a Certificate Application following approval of such Certificate Application.

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4.3.2 Qualified Certificates Issuance

The issuance of the SSCD containing the generated certificates and the issuance of the document giving the SSCD access codes and the certificate revocation codes use two different routes. The SSCD is first mailed to the residential address of the end-user Subscriber. It is sent together with a document that is a request for identification at a GWK Travelex office. Once signed, this request becomes the proof of delivery of the SSCD. The end-user Subscriber hands in this proof of delivery at the GWK Travelex office after having identified him- or herself using a passport or other form of identification.

GWK Travelex informs Getronics that the end-user Subscriber has identified him- or herself and handed in the proof of delivery. Once Getronics has received this confirmation of delivery and identity, it sends the document with the access codes for the SSCD and the revocation codes for the certificates (PIN-letter).

Occasionally the end-user Subscriber does not need to identify him- or herself, as is the case when a replacement certificate has been requested. In such cases, the end-user Subscriber may simply sign the proof of delivery and send it to Getronics. If the end-user Subscriber does not do this within three weeks of receiving the SSCD, Getronics will send him or her a reminder to do so. If the signed proof of delivery is not sent to Getronics within six weeks, Getronics will proceed to revoke the certificates concerned without first informing the end-user Subscriber.

Getronics confirms the issuance of the Certificate to the Subscriber in writing or by e-mail.

4.3.2.1 Reporting Qualified Certificate Generation

Immediately upon the generation of the Qualified Certificate, its generation can be verified using the Directory Service. However, because the physical delivery to the Subscriber only takes place later, this information is of limited value.

The end-user Subscriber is explicitly informed of the generation when they physically receive the SSCD containing, among others, the generated certificate. The Subscriber is informed of the generation and delivery of the certificate by e-mail or by regular mail.

4.4 Certificate Acceptance

4.4.1 Conduct Constituting Certificate Acceptance

The following conduct constitutes certificate acceptance:

- Downloading a Certificate or installing a Certificate from a message attaching it constitutes the Subscriber's acceptance of the Certificate.
- Failure of the Subscriber to object to the certificate or its content constitutes certificate acceptance.

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4.4.2 Publication of the Certificate by the CA

Getronics publishes the Certificates it issues in a publicly accessible repository.

4.4.3 Notification of Certificate Issuance by the CA to Other Entities

RAs may receive notification of the issuance of certificates they approve.

4.4.4 Notifications to Subscriber by the CA of Issuance of Certificate

Getronics shall, either directly or through an RA, notify Subscribers that it has created such Certificates, and provide Subscribers with access to the Certificates by notifying them that their Certificates are available. Certificates shall be made available to end-user Subscribers, either by allowing them to download them from a web site or via a message sent to the Subscriber containing the Certificate, or information on how to obtain the certificate.

4.4.5 Notifications and Acceptance of Qualified Certificates

The Qualified Certificate is deemed to have been issued and accepted as soon as the end-user Subscriber has received it. The end-user Subscriber must confirm receipt by signing and submitting the proof of delivery at a GWK Travelex office (after showing proof of identity). This proof of delivery is the formal confirmation of acceptance of the Qualified Certificate.

4.5 Key Pair and Certificate Usage

4.5.1 Subscriber Private Key and Certificate Usage

Use of the Private Key corresponding to the public key in the certificate shall only be permitted once the Subscriber has agreed to the Subscriber agreement and accepted the certificate. The certificate shall be used lawfully in accordance with Getronics' Subscriber Agreement, the terms of the VTN CP and this CPS. Certificate use must be consistent with the KeyUsage field extensions included in the certificate (e.g., if Digital Signature is not enabled then the certificate must not be used for signing). Subscribers shall protect their private keys from unauthorized use and shall discontinue use of the private key following expiration or revocation of the certificate.

4.5.2 Relying Party Public Key and Certificate Usage

Relying parties shall assent to the terms of the applicable relying party agreement as a condition of relying on the certificate.

Reliance on a certificate must be reasonable under the circumstances. If the circumstances indicate a need for additional assurances, the Relying Party must obtain such assurances for such reliance to be deemed reasonable.

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Before any act of reliance, Relying Parties shall independently assess:

- The appropriateness of the use of a Certificate for any given purpose and determine that the Certificate will, in fact, be used for an appropriate purpose that is not prohibited or otherwise restricted by this CPS. Getronics is not responsible for assessing the appropriateness of the use of a Certificate.
- That the certificate is being used in accordance with the KeyUsage field extensions included in the certificate (e.g., if Digital Signature is not enabled then the certificate may not be relied upon for validating a Subscriber's signature).
- The status of the certificate and all the CAs in the chain that issued the certificate. If any of the Certificates in the Certificate Chain have been revoked, the Relying Party is solely responsible to investigate whether reliance on a digital signature performed by an end-user Subscriber Certificate prior to revocation of a Certificate in the Certificate chain is reasonable. Any such reliance is made solely at the risk of the Relying Party.

Assuming that the use of the Certificate is appropriate, Relying Parties shall utilize the appropriate software and/or hardware to perform digital signature verification or other cryptographic operations they wish to perform, as a condition of relying on Certificates in connection with each such operation. Such operations include identifying a Certificate Chain and verifying the digital signatures on all Certificates in the Certificate Chain.

4.6 Certificate Renewal

Certificate renewal is the issuance of a new certificate to the subscriber without changing the public key or any other information in the certificate. Certificate renewal is supported for Class 3 certificates where the key pair is generated on a web server as most web server key generation tools permit the creation of a new Certificate Request for an existing key pair.

4.6.1 Circumstances for Certificate Renewal

Prior to the expiration of an existing valid Subscriber's Certificate, it is necessary for the Subscriber to renew a new certificate to maintain continuity of Certificate usage. A certificate may also be renewed after expiration.

4.6.2 Who May Request Renewal

Only the subscriber for an individual certificate or an authorized representative for an Organizational certificate may request certificate renewal.

4.6.3 Processing Certificate Renewal Requests

Renewal procedures ensure that the person or organization seeking to renew an end-user Subscriber Certificate is in fact the Subscriber (or authorized by the Subscriber) of the Certificate. One acceptable procedure for Class 2 certificates is through the use of a Challenge Phrase (or the equivalent thereof), or proof of possession of the private key. Subscribers choose and submit with their enrollment information a Challenge Phrase (or the equivalent thereof). Upon renewal of a Certificate, if a

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Subscriber correctly submits the Subscriber's Challenge Phrase (or the equivalent thereof) with the Subscriber's reenrollment information, and the enrollment information (including Corporate and Technical contact information⁶) has not changed, a renewal Certificate is automatically issued. As an alternative to using a Challenge Phrase (or equivalent) Getronics may send an e-mail message to the e-mail address associated with the verified corporate contact for the certificate being renewed, requesting confirmation of the Certificate renewal order and authorization to issue the Certificate. Upon receipt of confirmation authorizing issuance of the Certificate, Getronics will issue the Certificate if the enrollment information (including Corporate and Technical contact information⁷) has not changed.

After renewal in this fashion, and on at least alternative instances of subsequent renewal thereafter, Getronics or an RA shall reconfirm the identity of the Subscriber in accordance with the requirements specified in this CPS for the authentication of an original Certificate Application.

In particular, for subsequent renewal requests for retail Class 3 Organizational SSL Certificates, Getronics reauthenticates the Organization name and domain name included in the certificate. In circumstances where:

- The Challenge Phrase is correctly used for the subsequent renewal certificate, or a confirmatory response is obtained to an e-mail to the corporate contact, and:
- The certificate Distinguished Name has not been changed, and
- The Corporate and Technical Contact information remains unchanged from that which was previously verified,

Getronics will not have to reconfirm by telephone, confirmatory postal mail, or comparable procedure to the Certificate Applicant certain information about the organization, that the organization has authorized the Certificate Application, and that the person submitting the Certificate Application on behalf of the Certificate Applicant is authorized to do so.

Other than this procedure or another Getronics approved procedure, the requirements for the authentication of an original Certificate Application shall be used for renewing an end-user Subscriber Certificate.

Getronics does not offer routine renewals of Qualified Certificates. A request for renewal will be processed as a request for a new Certificate. The Subject Serial Number of the Certificate will be transferred to the renewed Certificate.

4.6.4 Notification of New Certificate Issuance to Subscriber

Notification of issuance of certificate renewal to the Subscriber is in accordance with § 4.3.2

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⁶ If contact information has changed via an approved formal contact change procedure the certificate shall still qualify for automated renewal.

⁷ If contact information has changed via an approved formal contact change procedure the certificate shall still qualify for automated renewal.



4.6.5 Conduct Constituting Acceptance of a Renewal Certificate

Conduct constituting Acceptance of a renewed certificate is in accordance with § 4.4.1

4.6.6 Publication of the Renewal Certificate by the CA

The renewed certificate is published in Getronics' publicly accessible repository.

4.6.7 Notification of Certificate Issuance by the CA to Other Entities

RAs may receive notification of the issuance of certificates they approve.

4.7 Certificate Re-Key

Certificate re-key is the application for the issuance of a new certificate that certifies the new public key. Certificate re-key is supported for all certificate Classes, except Qualified Certificates.

4.7.1 Circumstances for Certificate Re-Key

Prior to the expiration of an existing Subscriber's Certificate, it is necessary for the Subscriber to Re-key the certificate to maintain continuity of Certificate usage. A certificate may also be re-keyed after expiration.

4.7.2 Who May Request Certification of a New Public Key

Only the subscriber for an individual certificate or an authorized representative for an Organizational certificate may request certificate renewal

4.7.3 Processing Certificate Re-Keying Requests

Re-key procedures ensure that the person or organization seeking to renew an end-user Subscriber Certificate is in fact the Subscriber (or authorized by the Subscriber) of the Certificate. One acceptable procedure is through the use of a Challenge Phrase (or the equivalent thereof), or proof of possession of the private key. Subscribers choose and submit with their enrollment information a Challenge Phrase (or the equivalent thereof). Upon renewal of a Certificate, if a Subscriber correctly submits the Subscriber's Challenge Phrase (or the equivalent thereof) with the Subscriber's reenrollment information, and the enrollment information (including contact information⁸) has not changed, a renewal Certificate is automatically issued. Subject to the provisions of § 3.3.1, after re-keying in this fashion, and on at least alternative instances of subsequent re-keying thereafter, Getronics or an RA shall reconfirm the identity of the Subscriber in accordance with the requirements specified in this CPS for the authentication of an original Certificate Application.

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⁸ If contact information has changed via an approved formal contact change procedure the certificate shall still qualify for automated renewal.



Other than this procedure or another Getronics approved procedure, the requirements for the authentication of an original Certificate Application shall be used for re-keying an end-user Subscriber Certificate.

4.7.4 Notification of New Certificate Issuance to Subscriber

Notification of issuance of a re-keyed certificate to the Subscriber is in accordance with § 4.3.2

4.7.5 Conduct Constituting Acceptance of a Re-Keyed Certificate

Conduct constituting Acceptance of a re-keyed certificate is in accordance with § 4.4.1

4.7.6 Publication of the Re-Keyed Certificate by the CA

The re-keyed certificate is published in Getronics' publicly accessible repository.

4.7.7 Notification of Certificate Issuance by the CA to Other Entities

RAs may receive notification of the issuance of certificates they approve.

4.8 Certificate Modification

4.8.1 Circumstances for Certificate Modification

Certificate modification refers to the application for the issuance of a new certificate due to changes in the information in an existing certificate (other than the subscriber's public key).

Getronics does not offer the possibility of modifying the content of Certificates. If the information contained in the Certificate is no longer accurate, the Subscriber must immediately revoke the Certificate. After revoking the Certificate, the Subscriber may apply for a new Certificate, if desired.

Certificate modification is considered a Certificate Application in terms of § 4.1.

4.8.2 Who May Request Certificate Modification

See § 4.1.1

4.8.3 Processing Certificate Modification Requests

Getronics or an RA shall perform identification and authentication of all required Subscriber information in terms of § 3.2

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4.8.4 Notification of New Certificate Issuance to Subscriber

See § 4.3.2

4.8.5 Conduct Constituting Acceptance of Modified Certificate

See § 4.4.1

4.8.6 Publication of the Modified Certificate by the CA

See § 4.4.2

4.8.7 Notification of Certificate Issuance by the CA to Other Entities

See § 4.4.3

4.9 Certificate Revocation and Suspension

4.9.1 Circumstances for Revocation

In the following cases, the Subscriber and/or the Subject is required to immediately submit a request for revocation of the Certificate by Getronics :

- Getronics, a Customer, or a Subscriber has reason to believe or strongly suspects that there
 has been a Compromise of a Subscriber's private key,
- Getronics or a Customer has reason to believe that the Subscriber has materially breached a material obligation, representation, or warranty under the applicable Subscriber Agreement,
- The Subscriber Agreement with the Subscriber has been terminated,
- The affiliation between a customer and a Subscriber is terminated or has otherwise ended,
- The affiliation between an organization that is a Subscriber of a Class 3 Organizational ASB Certificate or a Qualified Certificate and the organizational representative controlling the Subscriber's private key is terminated or has otherwise ended,
- Getronics or a Customer has reason to believe that the Certificate was issued in a manner not materially in accordance with the procedures required by the applicable CPS, the Certificate was issued to a person other than the one named as the Subject of the Certificate, or the Certificate was issued without the authorization of the person named as the Subject of such Certificate,
- Getronics or a Customer has reason to believe that a material fact in the Certificate Application is false,
- Getronics or a Customer determines that a material prerequisite to Certificate Issuance was neither satisfied nor waived,
- In the case of Class 3 organizational Certificates, the Subscriber's organization name changes,
- The information within the Certificate, other than Non-verified Subscriber Information, is incorrect or has changed, or

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- The continued use of the certificate is harmful to the VTN.
- When considering whether certificate usage is harmful to the VTN, Getronics considers, among other things, the following:
 - The nature and number of complaints received
 - The identity of the complainant(s)
 - Relevant legislation in force
 - Responses to the alleged harmful use from the Subscriber

Getronics may also revoke an Administrator Certificate if the Administrator's authority to act as Administrator has been terminated or otherwise has ended.

Getronics Subscriber Agreements require end-user Subscribers to immediately notify Getronics of a known or suspected compromise of its private key.

Getronics can unilaterally revoke certificates if the Subscriber or end-user Subscriber do not fulfill their responsibilities as stipulated in the Subscriber Agreement and/or the Relying Party Agreement. Getronics always records its motivations for unilateral revocation of a certificate and communicates them to the affected parties.

Getronics ensures that the date and time of revocation of Certificates can be exactly determined. In case of doubt, the point in time give by Getronics will be considered the time of revocation.

4.9.2 Who Can Request Revocation?

Individual Subscribers can request the revocation of their own individual Certificates. In the case of organizational Certificates, a duly authorized representative of the organization shall be entitled to request the revocation of Certificates issued to the organization. A duly authorized representative of Getronics or a RA shall be entitled to request the revocation of an RA Administrator's Certificate. The entity that approved a Subscriber's Certificate Application shall also be entitled to request the revocation of the Subscriber's Certificate.

Only Getronics is entitled to request or initiate the revocation of the Certificates issued to its own CAs. RAs are entitled, through their duly authorized representatives, to request the revocation of their own Certificates, and their Superior Entities shall be entitled to request or initiate the revocation of their Certificates.

In the case of a Qualified Certificate, a Relying Party may report circumstances that could lead to the revocation of a Qualified Certificate. Getronics will investigate the reported case and, if warranted, will revoke the Qualified Certificate.

4.9.3 Procedure for Revocation Request

A request for revocation or a report of circumstances that could lead to the revocation of a Certificate can be made through the following avenues:

Online:

https://www.pki.getronicspinkroccade.nl/

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In writing:

Getronics Nederland B.V. c/o Validation department P.O. Box 9105 7300 HN Apeldoorn The Netherlands

It is stressed that, if the revocation of a Certificate needs to take place immediately because of an emergency situation, it should be requested using the online revocation pages. The online revocation service is available 7 days a week and 24 hours a day. Revocation normally takes place within 4 hours of Getronics receiving the online request for revocation.

Getronics ensures that the date and time of revocation of Certificates can be exactly determined. In case of doubt, the point in time give by Getronics will be considered the time of revocation.

Once a Certificate has been revoked, it cannot be made valid again.

4.9.3.1 Procedure for Requesting the Revocation of an end-user Subscriber Certificate

An end-user Subscriber requesting revocation is required to communicate the request to Getronics or the Customer approving the Subscriber's Certificate Application, who in turn will initiate revocation of the certificate promptly. For Enterprise customers, the Subscriber is required to communicate the request to the Enterprise Administrator who will communicate the revocation request to Getronics for processing. Communication of such revocation request shall be in accordance with CPS § 3.4.

Where a customer initiates revocation of an end-user Subscriber Certificate upon its own initiative, the Managed PKI Customer instructs Getronics to revoke the Certificate.

4.9.3.2 Procedure for Requesting the Revocation of a CA or RA Certificate

A CA or RA requesting revocation of its CA or RA Certificate is required to communicate the request to Getronics. Getronics will then revoke the Certificate. Getronics may also initiate CA or RA Certificate revocation.

4.9.4 Revocation Request Grace Period

Revocation requests shall be submitted as promptly as possible within a commercially reasonable time. As mentioned earlier: if immediate revocation is necessary due to a emergency situation, it should be requested electronically, using the online revocation service.

4.9.5 Time within Which CA Must Process the Revocation Request

Revocation requests handled via the Getronics website will be revoked online / in real time, and it is guaranteed that they will be revoked within twenty-four hours of receiving the request at the latest. Revocation requests received in writing by mail will be processed one business day after they are

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received and there is no guarantee that they will be processed within twenty-four hours. Getronics takes commercially reasonable steps to process these revocation requests without delay.

4.9.6 Revocation Checking Requirements for Relying Parties

Relying Parties are required to check the current status (revoked / not revoked) of a Certificate by consulting the certificate status information. Certificate status information can be obtained by consulting the CRL, OCSP or Directory Service. Furthermore, Relying Parties are expected to check the reliability of such information.

Revoked Certificates remain on the CRL as long as their original expiry date has not been reached yet. After the expiry date, Relying Parties can only verify the status of the Certificate by consulting Getronics' Directory Service or by making use of OCSP.

Getronics shall provide Relying Parties with information on how to find the appropriate CRL, webbased repository, or OCSP responder (where available) to check for revocation status. Generally, this information is available from the Certificate itself.

4.9.7 CRL Issuance Frequency

CRLs for Qualified Certificates are issued once every four hours with a validity period of twenty-four hours.

CRLs for end-user Subscriber Certificates are issued at least once per day. CRLs for CA Certificates shall be issued at least yearly, but also whenever a CA Certificate is revoked.⁹

If a Certificate listed in a CRL expires, it may be removed from later-issued CRLs after the Certificate's expiration.

4.9.8 Maximum Latency for CRLs

CRLs are posted to the repository within a commercially reasonable time after generation. This is generally done automatically within minutes of generation. However, it is always done within the legally allowed time (if applicable).

4.9.9 On-Line Revocation/Status Checking Availability

In addition to the publication of CRLs, Getronics also offers certificate status information through the so-called OCSP. The setup of the OCSP is in accordance with IETC RFC 2560.

OCSP validation is an online validation method in which Getronics sends the Relying Party an electronically signed message (OCSP response) in answer to a specific request for status information

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⁹ CRLs for the "VeriSign Class 3 Organizational VIP Device CA" are only issued whenever a certificate issued by that CA is revoked.



(OCSP request) sent by the Relying Party to the Getronics' OCSP service (OCSP responder). The OCSP response contains the requested status information of the Certificate concerned.

The OCSP responder can be reached through its URL as contained in the Certificate concerned.

The status of a certificate can take on one of three values: good, revoked or unknown. If, for whatever reason, no OCSP response is received, no conclusions regarding the status of the certificate can be drawn. The OCSP responder URL that can be used to validate the revocation status of a Certificate can be found in the AuthorityInfoAccess.uniformResourceIndicator attribute of the certificate.

An OCSP response always gets sent and signed by the OCSP responder. The Relying Party is required to verify the OCSP response signature by comparing it to the system certificate sent along in the OCSP response. This system certificate and the Certificate whose status is being checked are both issued by the same CA.

The information given by an OCSP responder may be more up to date than the information in the CRL. This is only the case if a revocation has taken place and the regular update of the CRL has not taken place yet.

4.9.10 Other Forms of Revocation Advertisements Available

In addition to making use of the CRL and OCSP, the revocation status of a certificate can also be determined by consulting the Directory Service.

4.9.11 Special Requirements regarding Key Compromise

Getronics uses commercially reasonable efforts to notify potential Relying Parties if it discovers, or has reason to believe, that there has been a Compromise of the private key of one of their own CAs or one of the CAs within their subdomains.

4.9.12 Certificate Suspension

Suspension of certificates is not supported by Getronics.

4.10 Certificate Status Service

The Status of certificates is available via CRL at Getronics' website, Directory Service and via an OCSP responder (where available). Certificate Status Services are available 7 days a week, 24 hours a day.

Even in the case of system malfunctions, system service activities or other factors beyond the control of Getronics, Getronics ensures the publication of a new CRL within 24 hours of the online revocation request for a Qualified Certificate being submitted. This is why Getronics has designed a backup site and backup scenario that is regularly tested in conjunction with redundant data processing and storage.

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4.11 End of Subscription

A subscriber may end a subscription for a Getronics certificate by:

- Allowing his/her/its certificate to expire without renewing or re-keying that certificate
- Revoking of his/her/its certificate before certificate expiration without replacing the certificate.

4.11.1 End of Subscription: Qualified Certificates

If a Subscriber wishes to terminate their subscription for Qualified Certificates at Getronics, they can do so by completing the "Subscription Termination Form". All Qualified Certificates belonging to the Subscriber must be revoked before Getronics can terminate the subscription.

Getronics will receive the form, assess its completeness and accuracy and come to a decision on it. Part of the assessment includes checking whether the Subscriber has revoked all Qualified Certificates that were issued to it. Getronics will inform the Subscriber of its decision.

4.12 Key Escrow and Recovery

With the exception of enterprises deploying Managed PKI Key Management Services no VTN participant may escrow CA, RA or end-user Subscriber private keys.

Customers using Managed PKI Key Management Service can escrow copies of the private keys of Subscribers whose Certificate Applications they approve. Getronics does not store copies of Subscriber private keys but plays an important role in the Subscriber key recovery process.

4.12.1 Key Escrow and Recovery Policy and Practices

Enterprise customers using the Managed PKI Key Management service (or an equivalent service approved by Getronics) are permitted to escrow end-user Subscribers' private keys. Escrowed private keys shall be stored in encrypted form using the Managed PKI Key Manager software. Except for enterprise customers using the Managed PKI Key Manager Service (or an equivalent service approved by Getronics), the private keys of CAs or end-user Subscribers shall not be escrowed.

End-user Subscriber private keys shall only be recovered under the circumstances permitted within the Managed PKI Key Management Service Administrator's Guide, under which:

- Enterprise customers using Managed PKI Key Manager shall confirm the identity of any person purporting to be the Subscriber to ensure that a purported Subscriber request for the Subscriber's private key is, in fact, from the Subscriber and not an imposter,
- Enterprise customers shall recover a Subscriber's private key without the Subscriber's authority only for their legitimate and lawful purposes, such as to comply with judicial or administrative process or a search warrant, and not for any illegal, fraudulent, or other wrongful purpose, and

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 Such Enterprise customers shall have personnel controls in place to prevent Key Management Service Administrators and other persons from obtaining unauthorized access to private keys.

It is recommended that customers using Key Manager Service:

- Notify the subscribers that their private keys are escrowed
- Protect subscribers' escrowed keys from unauthorized disclosure,
- Protect all information, including the administrator's own key(s) that could be used to recover subscribers' escrowed keys.
- Release subscribers' escrowed keys only for properly authenticated and authorized requests for recovery.
- Revoke the Subscriber's Key pair prior to recovering the encryption key.
- Not be required to communicate any information concerning a key recovery to the subscriber except when the subscriber him/herself has requested recovery.
- Not disclose or allow to be disclosed escrowed keys or escrowed key-related information to any third party unless required by the law, government rule, or regulation; by the enterprise's organization policy; or by order of a court of competent jurisdiction.

4.12.2 Session Key Encapsulation and Recovery Policy and Practices

Private keys are stored on the enterprise's premises in encrypted form. Each Subscriber's private key is individually encrypted with its own triple-DES symmetric key. A Key Escrow Record (KER) is generated, then the triple-DES key is combined with a random session key mask generated in hardware and destroyed. Only the resulting masked session key (MSK) is securely sent and stored at Getronics. The KER (containing the end user's private key) and the random session key mask are stored in the Key Manager database on the enterprise premises.

Recovery of a private key and digital certificate requires the Managed PKI administrator to securely log on to the Managed PKI Control Center, select the appropriate key pair to recover and click a "recover" hyperlink. Only after an approved administrator clicks the "recover" link is the MSK for that key pair returned from the Managed PKI database operated out of Getronics' secure data center. The Key Manager combines the MSK with the random session key mask and regenerates the triple-DES key which was used to originally encrypt the private key, allowing recovery of the end user's private key. As a final step, an encrypted PKCS#12 file is returned to the administrator and ultimately distributed to the end user.

4.12.3 Private Key Escrow for Qualified Certificates

CA private keys and end-user Subscriber signature private keys shall not be escrowed. Therefore, notwithstanding the provision of CPS § 4.12.1, Managed PKI Customers shall not use the Managed PKI Key Manager service to escrow end-user Subscribers single private key (in single key pair systems).

Managed PKI Customers wishing to use the Managed PKI Key Manager service shall use dual key pair systems and escrow only the decryption private keys of end-user Subscribers.

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5 Facility, Management, and Operational Controls

The section of Getronics that is responsible for providing certification services is ISO9001: 2000, ISO27001:2005 and ETSI TS 101 456 certified. Both the Quality Management System and the Information Security Management System make use of the PDCA-cycle to ensure continual system improvement.

5.1 Physical Controls

Getronics has described and implemented a Physical Security Policy. This policy meets the VeriSign's Security and Audit Requirements. This Physical Security Policy contains sensitive security information and is not available for the public. An overview of the measures taken is described below.

5.1.1 Site Location and Construction

Getronics', CA and RA 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. Getronics also maintains disaster recovery facilities for its CA operations. Getronics' disaster recovery facilities are protected by multiple tiers of physical security comparable to those of Getronics' primary facility.

5.1.2 Physical Access

Getronics CA 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 CA operational activity, any activity related to the lifecycle of the certification process such as authentication, verification, and issuance, occur within very restrictive physical tiers. Access to each tier requires the use of a proximity card employee badge. Physical access is automatically logged and/or video recorded. Additional tiers enforce individual access control through the use of two factor authentication including biometrics. Unescorted personnel, including untrusted employees or visitors, are not allowed into such secured areas.

The physical security system includes additional tiers for key management security which serves to protect both online and offline storage of CSUs and keying material. Areas used to create and store cryptographic material enforce dual control, each through the use of two factor authentication including biometrics. Online CSUs are protected through the use of locked cabinets. Offline CSUs are protected through the use of locked safes, cabinets and containers.

Access to CSUs and keying material is restricted in accordance with VeriSign's segregation of duties requirements. The opening and closing of cabinets or containers in these tiers is logged for audit purposes.

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5.1.3 Power and Air Conditioning

Getronics' 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.

5.1.4 Water Exposures

Getronics has taken reasonable precautions to minimize the impact of water exposure to Getronics systems, including but not limited to, the choice for a geographical location which is, for it's primary location, above sea level. It's secondary location being beneath sea level is a more than accepted risk in the Netherlands.

5.1.5 Fire Prevention and Protection

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

5.1.6 Media Storage

All media containing production software and data, audit, archive, or backup information are stored within Getronics facilities 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).

5.1.7 Waste Disposal

Getronics has a contract with a professional waste disposal company for the safe disposal of waste, used paper and such. Getronics personnel is required to dispose of used paper in the closed paper disposal containers located throughout the building.

Media used to collect or transmit sensitive information are rendered unreadable before disposal. Cryptographic devices are physically destroyed or zeroized in accordance the manufacturers' guidance prior to disposal.

Other waste is disposed of in accordance with Getronics' normal waste disposal requirements.

5.1.8 Off-site Backup

Getronics performs routine backups of critical system data, audit log data, and other sensitive information. Offsite backup media are stored in a physically secure manner using Getronics' disaster recovery facility.

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5.2 Procedural Controls

Security tasks and responsibilities, including confidential tasks, are documented in job descriptions. These are based on the segregation of duties and the sensitivity of the job is also indicated. Whenever necessary, a differentiation between general jobs and specific CSP jobs is made in the additional detailed roledescriptions.

Procedures have been developed and are implemented for all confidential and administrative tasks that influence the delivery of Certification Services.

The authorizations of CSP personnel are based on a need-to-know principle.

5.2.1 Confidential jobs

Getronics has implemented a Trusted Employee Policy. Among others, this policy describes which categories of personnel have a "Trusted" status. It mainly concerns personnel that are involved in the management of certificates and key material, personnel that are involved in system development, management, and maintenance and personnel within security management, quality management and auditing. See also § 5.3.2 Trusted Employee Policy.

Getronics considers the categories of personnel identified in this section as Trusted Persons having a Trusted Position. Persons seeking to become Trusted Persons by obtaining a Trusted Position must successfully complete the screening requirements set out in the Trusted Employee Policy.

5.2.2 Number of Persons Required per Task

Several personnel are required for the execution of certain, previously defined, activities in the areas of key and certificate management, system development, maintenance and management. The necessity to have several people working on a certain activity is enforced through technical measures, authorizations combined with identification/authentication, and additional procedures.

5.2.3 Management and Security

Getronics applies ITIL management processes to ensure procedural security. ITIL is a methodology for the standardization of IT management processes that is focused on bringing the quality of these processes to a certain level and maintaining that quality.

Getronics has separate systems for development, testing, acceptance and production. These systems are managed using the aforementioned ITIL procedures. The procedure for change management is used to monitor the transfer of programs from one environment to another. This procedure includes things like the monitoring and registration of versions, modifications and emergency repairs of all operational software.

The integrity of all systems and information used for Certificates is protected from viruses, harmful software and other possible disruptions of service through a tailored combination of physical, logical

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and organizational measures. These measures are preventative, inhibitive and curative in nature. For example, measures taken include: logging, firewalls, intrusion detection and redundancy of systems.

Getronics has provided for timely, coordinated action to be taken to react quickly to incidents and to limit the influence of intrusion on the security system. All incidents are reported as soon as possible after their occurrence.

5.2.4 Separation of Duties

Getronics maintains a separation between executive, decision making and monitoring duties. Furthermore separation is maintained between system management and operation of the systems used for Certificates, as well as between security officers, system auditors, system managers and system operators.

5.3 Personnel Controls

5.3.1 Trusted Employee Policy

Getronics has drafted and implemented a Trusted Employee Policy for its Certification Service. During the drafting and maintenance of this policy, close attention was/is paid to the possibilities and impossibilities of general Dutch laws and regulations like the Civil Law ("Burgerlijk Wetboek"), the Privacy Law ("Wet Bescherming Persoonsgegevens"), the Electronic Signatures Law ("Wet Elektronische Handtekeningen") and (client) specific laws and regulations applied by de Nederlandsche Bank (DNB), the Pension and Insurance Chamber ("Pensioen- en Verzekeringskamer") and the PKI designed for trustworthy electronic communication within and with the Dutch government ("PKloverheid.nl"). For instance, the Policy describes at great length how to deal with things like pre-employment screening (mandatory for employees involved in certification services), the delivery of a Certificate of Behavior ("Verklaring omtrent het Gedrag") required by the Law on Justice Information ("Wet Justitiële Informatie"), and the implementation of security investigations for services like the General Intelligence and Security Service ("Algemene Inlichtingenen Veiligheidsdienst") or the Military Intelligence and Security Service ("Militaire Inlichtingen- en Veiligheidsdienst") in order to obtain a Declaration of No Objection ("Verklaring van Geen Bezwaar"). The policy also describes the options open to management if a (future) employee refuses to cooperate or if the result of the investigation is negative.

Other stipulations from the Trusted Employee Policy are:

- A trusted duty or role may only be carried out by an employee after the relevant security screening has been completed without objections having come forward, and he or she has been formally appointed as Trusted Employee by the management.
- Assessing the security risks during a person's employment is the responsibility of the employee's supervisor, as part of the PPM-cycle.

Personnel seeking to become Trusted Persons must present proof of the requisite background, qualifications, and experience needed to perform their prospective job responsibilities competently and satisfactorily, as well as proof of government clearances, if any, necessary to perform certification

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services under government contracts. Background checks are repeated at least every 5 years for personnel holding Trusted Positions.

5.3.2 Expertise, Experience and Qualifications

Getronics employs personnel with sufficient expertise, experience and qualifications for the delivery of Certificates.

Getronics has determined what knowledge and experience is needed for proper execution of each task. Because of the rapid developments in the specialism, this knowledge is actively maintained. Getronics also registers the knowledge and experience of each of its employees. As part of the annual Planning and Control cycle, a training plan is developed and after it is approved, the necessary budget for execution of the plan is made available. The implementation of the plan is closely monitored and the courses followed are registered. Professional training is stimulated wherever possible and where necessary it is made mandatory. Employees are also trained on the job. The training offered employees covers a wide range of knowledge so that, on the one hand, they can be widely deployed, while on the other hand, it is possible to offer them variation in the tasks they need to perform.

A Personnel Performance Management (PPM) cycle is used to monitor employees' progress. The PPM cycle includes the setting of goals, job evaluation and assessments,.

5.3.3 Independent Contractor Requirements

In limited circumstances, independent contractors or consultants may be used to fill Trusted Positions. Any such contractor or consultant is held to the same functional and security criteria that apply to Getronics employees in a comparable position. Independent contractors and consultants who have not completed or passed the background check procedures specified in CPS § 5.3.2 are permitted access to Getronics' secure facilities only to the extent they are escorted and directly supervised by Trusted Persons at all times.

5.3.4 Documentation Supplied to Personnel

As part of its QMS and ISMS, Getronics provides its employees all the documentation needed to perform their job responsibilities competently and satisfactorily.

5.4 Audit Logging Procedures

5.4.1 Types of Events Recorded

Getronics keeps registrations of the following events for audit purposes:

- account creation;
- installation of new software or software updates
- date and time of backups and other information describing backups;

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- date and time of all hardware changes;
- date and time of audit log dumps;
- shut down and (re)start of systems;

Getronics manually or automatically logs the following significant events:

- CA key life cycle management events, including:
 - Key generation, backup, storage, recovery, archival, and destruction
 - Cryptographic device life cycle management events.
- CA and Subscriber certificate life cycle management events, including:
 - Certificate Applications, renewal, re-key, and revocation
 - Successful or unsuccessful processing of requests
 - Generation and issuance of Certificates and CRLs.
- Security-related events including:
 - Successful and unsuccessful PKI system access attempts
 - PKI and security system actions performed by Getronics personnel
 - Security sensitive files or records read, written or deleted
 - Security profile changes
 - System crashes, hardware failures and other anomalies
 - Firewall and router activity
 - CA facility visitor entry/exit.

Log entries include the following elements:

- Date and time of the entry
- · Serial or sequence number of entry, for automatic journal entries
- Identity of the entity making the journal entry
- Kind of entry.

Getronics, RAs and Managed PKI Administrators log Certificate Application information including:

- Kind of identification document(s) presented by the Certificate Applicant
- Record of unique identification data, numbers, or a combination thereof (e.g., Certificate Applicant's drivers license number) of identification documents, if applicable
- Storage location of copies of applications and identification documents
- Identity of entity accepting the application
- Method used to validate identification documents, if any
- Name of receiving CA or submitting RA, if applicable.
- If Getronics or Managed PKI Customers using Key Manager, generate RA or end-user Subscriber key pairs for placement on tokens, all events relating to the lifecycle of keys managed by such CAs will be logged.
- If applicable, CAs issuing Qualified Certificates shall log all events relating to the preparation of SSCDs.

5.4.2 Frequency of Processing Log

Audit logs are examined on a regular daily basis for significant security and operational events. In addition, Getronics reviews its audit logs for suspicious or unusual activity in response to alerts generated based on irregularities and incidents within Getronics, CA and RA systems.

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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, a brief inspection of all log entries, and a more thorough investigation of any alerts or irregularities in the logs. Actions taken based on audit log reviews are also documented.

5.4.3 Retention Period for Audit-Log

Audit logs shall be retained on site for at least two (2) months after processing and thereafter archived in accordance with § 5.5.2.

5.4.4 Protection of Audit-Log

Electronic and manual audit log files are protected from unauthorized viewing, modification, deletion, or other tampering through the use of physical and logical access controls.

5.4.5 Audit Log Backup Procedures

Incremental backups of audit logs are created daily and full backups are performed weekly.

5.4.6 Audit Collection System (Internal vs. External)

Automated audit data is generated and recorded at the application, network and operating system level. Manually generated audit data is recorded by Getronics personnel.

5.4.7 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.

5.4.8 Vulnerability Assessments

Events in the audit process are logged, in part, to monitor system vulnerabilities. Logical security vulnerability assessments ("LSVAs") are performed, reviewed, and revised following an examination of these monitored events. LSVAs are based on real-time automated logging data and are performed on a daily, monthly, and annual basis. An annual LSVA will be an input into an entity's annual Compliance Audit.

5.5 Records Archival

5.5.1 Types of Records Archived

Getronics archives:

• All audit data collected in terms of § 5.4,

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- Certificate application information,
- Documentation supporting certificate applications,
- Certificate lifecycle information e.g., revocation, re-key and renewal application information.

5.5.2 Retention Period for Archive

Records shall be retained for at least the time periods set forth below following the date the Certificate expires or is revoked.

• Ten (10) years and six (6) months for Class 2 and Class 3 Certificates

• Seven (7) years after the expiry date or date of revocation for Qualified Certificates

5.5.3 Protection of Archive

Getronics implements the archiving of information itself. It ensures the integrity and availability of the archived information for the duration of the storage period through a fitting combination of security measures. All equipment and programs necessary for accessing the information are stored for the same length of time. Getronics ensures all information is stored and archived carefully and securely.

5.5.4 Archive Backup Procedures

Getronics incrementally backs up electronic archives of its issued Certificate information on a daily basis and performs full backups on a weekly basis.

5.5.5 Requirements for Time-Stamping of Records

The exact time and date of relevant events in the life cycle of certificates and keys are recorded. The same is true for important events in the life cycle of the systems used for or supporting the certification service.

5.5.6 Archive Collection System (Internal or External)

Getronics archive collection systems are internal, except for enterprise RA Customers. Getronics assists its enterprise RAs in preserving an audit trail. Such an archive collection system therefore is external to that enterprise RA.

5.5.7 Procedures to Obtain and Verify Archive Information

Only authorized Trusted Personnel are able to obtain access to the archive. The integrity of the information is verified when it is restored.

5.6 Key Changeover

Old keys are stored on the token if the new keys are also placed on it. Old tokens are destroyed (by zeroizing) when their life cycle and the appropriate archive period have ended.

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Keys belonging to end-user Subscribers will not be reused after their validity has expired or after the revocation of the Certificates that go with them.

Getronics CA key pairs are retired from service at the end of their respective maximum lifetimes as defined in this CPS. Getronics CA Certificates may be renewed as long as the cumulative certified lifetime of the CA key pair does not exceed the maximum CA key pair lifetime. New CA key pairs will be generated as necessary, for example to replace CA key pairs that are being retired, to supplement existing, active key pairs and to support new services.

Prior to the expiration of the CA Certificate for a Superior CA, key changeover procedures are enacted to facilitate a smooth transition for entities within the Superior CA's hierarchy from the old Superior CA key pair to new CA key pair(s). Getronics' CA key changeover process requires that:

- A Superior CA ceases to issue new Subordinate CA Certificates no later than 60 days before the point in time ("Stop Issuance Date") that the remaining lifetime of the Superior CA key pair equals the approved Certificate Validity Period for the specific type(s) of Certificates issued by Subordinate CAs in the Superior CA's hierarchy.
- Upon successful validation of Subordinate CA (or end-user Subscriber) Certificate requests received after the "Stop Issuance Date," Certificates will be signed with a new CA key pair.
- The Superior CA continues to issue CRLs signed with the original Superior CA private key until the expiration date of the last Certificate issued using the original key pair has been reached

5.7 Compromise and Disaster Recovery

Getronics has implemented a robust combination of physical, logical, and procedural controls to minimize the risk and potential impact of a key Compromise or disaster. In addition, Getronics has implemented disaster recovery procedures described in CPS § 5.7.3 and Key Compromise response procedures described in CPS § 5.7.2. Getronics' Compromise and disaster recovery procedures have been developed to minimize the potential impact of such an occurrence and restore Getronics s operations within a commercially reasonable period of time.

5.7.1 Incident and Compromise Handling Procedures

In the event of the corruption of computing resources, software, and/or data, such an occurrence is reported to Getronics Security and Getronics' incident handling procedures are enacted.

Such procedures require appropriate escalation, incident investigation, and incident response. If necessary, Getronics' key compromise or disaster recovery procedures will be enacted.

5.7.2 Entity Private Key Compromise Procedures

Upon the suspected or known Compromise of a Getronics CA, Getronics infrastructure or Customer CA private key, Getronics' Key Compromise Response procedures are enacted by the Compromise Incident Response Team (CIRT). This team, which includes Security, Cryptographic Business

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Operations, Production Services personnel, and other Getronics management representatives, assesses the situation, develops an action plan, and implements the action plan with approval from Getronics executive management.

If CA Certificate revocation is required, the following procedures are performed:

- The Certificate's revoked status is communicated to Relying Parties through the Getronics repository,
- Commercially reasonable efforts will be made to provide additional notice of the revocation to all affected VTN Participants, and
- The CA will generate a new key pair, except where the CA is being terminated.

5.7.3 Disaster Recovery

Getronics has implemented mission critical components of its CA infrastructure in redundant configurations. This applies both to hardware and software components. In addition, CA private keys are backed up and maintained for disaster recovery purposes. Getronics has implemented detailed change and incident management procedures to allow for controlled and accountable recovery from system and application disasters.

Getronics has fitted a complete backup facility for its CRL and online revocation service. The programs and data at the backup facility are identical to those in the production environment and it is possible to immediately switch to the backup facility when necessary (e.g. in case of a disaster). This kind of switch to the backup facility is regularly tested and the procedure is maintained. The backup facility is located at a different Getronics location that has a similar level of security.

Getronics maintains offsite backups of important CA information for Getronics issued CAs within the Getronics Subdomain. Such information includes, but is not limited to: application logs, Certificate Application data, audit data and database records for all Certificates issued.

5.7.4 Key Compromise

Upon the suspected or known Compromise of a Getronics CA, Getronics infrastructure or Customer CA private key, Getronics' Key Compromise Response procedures are enacted by the Compromise Incident Response Team (CIRT). This team, which includes Security, Cryptographic Business Operations, Production Services personnel, and other Getronics management representatives, assesses the situation, develops an action plan, and implements the action plan with approval from Getronics executive management.

If CA Certificate revocation is required, the following procedures are performed:

- The Certificate's revoked status in communicated to Relying Parties through the Getronics repository in accordance with CPS § 4.9.7,
- Commercially reasonable efforts will be made to provide additional notice of the revocation to all affected VTN Participants, and
- The CA will generate a new key pair in accordance with CPS § 5.6, except where the CA is being terminated in accordance with CPS § 5.8.

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5.7.5 Secure Facility After a Natural or Other Type of Disaster

A backup scenario has been effected for the parts of the CA system not mentioned in § 5.7.3. The scenario provides for a backup within 24 hours and is maintained and tested annually.

Getronics will restore all its services within one week.

5.8 CA or RA Termination

5.8.1 Termination of a Getronics customer CA

In the event that it is necessary for a Getronics customer CA to cease operation, the applicable Customer will develop a termination plan to minimize disruption to Subscribers and Relying parties. Such a termination plan may address the following, as applicable:

- Provision of notice to parties affected by the termination, such as subscribers and relying parties, informing them of the status of the CA,
- Handling the cost of such notice,
- The revocation of the Certificate issued to the CA by Getronics,
- The preservation of the CAs archives and records for the required time periods by Getronics,
- The continuation of Subscriber and customer support services by Getronics,
- The continuation of revocation services, such as the issuance of CRLs or the maintenance of online status checking services by Getronics,
- The revocation of unexpired unrevoked certificates of end-user Subscribers and subordinate CAs, if necessary, by Getronics,
- Disposition of the CAs private key and the hardware tokens containing this private key by Getronics, and
- Provisions needed for the transition of the CAs services to a successor CA, if necessary.

5.8.2 Termination of a Getronics CA

In the event that it is necessary for Getronics to cease operation, Getronics has developed a CA Termination Plan, laid down in the CA Termination Handbook. As part of the Termination Plan, Getronics and VeriSign have put into place contractual agreements that include, but are not limited to, the following

- Provision of notice to parties affected by the termination, such as subscribers and relying
 parties, informing them of the status of the CA,
- Handling the cost of such notice,
- The revocation of the Certificate issued to the CA by Getronics,
- The preservation of the CAs archives and records for the required time periods,
- The continuation of Subscriber and customer support services by VeriSign,
- The continuation of revocation services, such as the issuance of CRLs or the maintenance of online status checking services by VeriSign,
- The revocation of unexpired unrevoked certificates of end-user Subscribers and subordinate CAs, if necessary,

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- The payment of compensation (if necessary) to Subscribers whose unexpired unrevoked • Certificates are revoked under the termination plan or provision, or alternatively, the issuance of replacement Certificates by a successor CA,
- Disposition of the CAs private key and the hardware tokens containing this private key, and Provisions needed for the transition of the CAs services to a successor CA. •

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6 Technical Security Controls

6.1 Key Pair Generation and Installation

6.1.1 Key Pair Generation

CA key pair generation is performed by multiple pre-selected, trained and trusted individuals using Trustworthy Systems and processes that provide for the security and required cryptographic strength for the generated keys. For PCA, Issuing Root CAs and all online Getronics and Managed PKI Customer CAs the cryptographic modules used for key generation meet the requirements of FIPS 140-1 level 3. For some offline CAs, the cryptographic modules used meet the requirements of at least FIPS 140-1 level 2.

All CA key pairs are generated in pre-planned Key Generation Ceremonies in accordance with the requirements of the Key Ceremony Reference Guide, the CA Key Management Tool User's Guide, and the VeriSign Security and Audit Requirements Guide. The activities performed in each 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 Getronics Management.

Generation of RA key pairs is generally performed by the RA using a FIPS 140-1 level 1 certified cryptographic module provided with their browser software.

Customers generate the key pair used by their Automated Administration servers. Getronics recommends that Automated Administration server key pair generation be performed using a FIPS 140-1 level 2 or higher certified cryptographic module.

Generation of end-user Subscriber key pairs is generally performed by the Subscriber. For Class 2 Certificates, the Subscriber typically uses a FIPS 140-1 level 1 certified cryptographic module provided with their browser software for key generation, or a SSCD. For server Certificates, the Subscriber typically uses the key generation utility provided with the web server software.

Generation of end-user key pairs for Qualified Certificates is performed using an EAL4+ certified SSCD.

6.1.2 Private Key Delivery to Subscriber

When end-user Subscriber key pairs are generated by the end-user Subscriber, private key delivery to a Subscriber is not applicable.

Where RA or end-user Subscriber key pairs are pre-generated by Getronics on hardware tokens or SSCD's, such devices are distributed to the RA or end-user Subscriber using a commercial delivery service and tamper evident packaging. The data required to activate the device is communicated to

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the RA or end-user Subscriber using an out of band process. The distribution of such devices is logged by Getronics.

For customers using Managed PKI Key Manager for key recovery services, the Customer may generate encryption key pairs (on behalf of Subscribers whose Certificate Applications they approve) and transmit such key pairs to Subscribers via a password protected PKCS # 12 file.

6.1.3 Public Key Delivery to Certificate Issuer

End-user Subscribers and RAs submit their public key to Getronics for certification electronically through the use of a PKCS#10 Certificate Signing Request (CSR) or other digitally signed package in a session secured by Secure Sockets Layer (SSL).

Where CA, RA, or end-user Subscriber key pairs are generated by Getronics, this requirement is not applicable.

6.1.4 CA Public Key Delivery to Relying Parties

Getronics makes the CA Certificates for its PCAs and root CAs available to Subscribers and Relying Parties through their inclusion in web browser software. As new PCA and root CA Certificates are generated, VeriSign or Getronics provides such new Certificates to the browser manufacturers for inclusion in new browser releases and updates.

Getronics generally provides the full certificate chain (including the issuing CA and any CAs in the chain) to the end-user Subscriber upon Certificate issuance. Getronics CA Certificates may also be downloaded from the LDAP Directory at directory.pinkroccade.com.

6.1.5 Key Sizes

Key pairs shall be of sufficient length to prevent others from determining the key pair's private key using cryptanalysis during the period of expected utilization of such key pairs. The current Getronics Standard for minimum key sizes is the use of key pair's equivalent in strength to 1024 bit RSA for PCAs and CAs, except for the legacy Secure Server CA whose key pair is 1000 bit RSA. Getronics' third generation (G3) PCAs have 2048 bit RSA key pairs.

Getronics recommends that Registration Authorities and end-user Subscribers generate 1024 bit or higher

RSA key pairs. Getronics does not approve certain end entity certificates generated with a key pair size of 512 bit or less.

6.1.6 Public Key Parameters Generation and Quality Checking

Not applicable.

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6.1.7 Key Usage Purposes (as per X.509 v3 Key Usage Field)

The Certificates, including corresponding key pairs, may only be used for the purposes described in this CPS and are published in the (Extended) Key usage extension of the Certificate.

Refer to § 7.1.2.1.

6.2 Private Key Protection and Cryptographic Module engineering Controls

Getronics has implemented a combination of physical, organizational, logical, and procedural controls to ensure the security of Getronics and customer CA private keys.

Subscribers are required by contract to take necessary precautions to prevent the loss, disclosure, modification, or unauthorized use of private keys.

6.2.1 Cryptographic Module Standards and Controls

For PCA and Issuing Root CA key pair generation and CA private key storage, VeriSign and Getronics use hardware cryptographic modules that are certified at or meet the requirements of FIPS 140-1 Level 3.

For some offline CAs, Getronics uses hardware cryptographic modules that are certified to at least FIPS 140-1 Level 2.

The Hardware Security Modules (HSMs) are delivered by the vendor in tamper-evident bags, a type of packaging that shows whether it has been tampered with. Each shipment is checked against its out-of-band list immediately upon arrival.

6.2.2 Cryptographic Module Standards and Controls for Qualified Certificates

Getronics shall perform all CA cryptographic operations with their own private keys and the private keys of the Client and Managed PKI Customers within their Subdomains, on cryptographic modules that either:

- meet the requirements identified in FIPS 140-1 level 3 or utilize a set of controls that, as a whole, provide the level of security required by FIPS 140-1 level 3, or
- that are part of a Trustworthy System assured to EAL 4 or higher in accordance with ISO 15408 or equivalent security criteria, which assurance shall be in relation to a security target or protection profile that meets the requirements of the ETSI TS 101 456 Policy Document, based on a risk analysis and taking into account physical and other non-technical security measures.

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6.2.3 Private Key (m out of n) Multi-Person Control

Getronics has implemented technical and procedural mechanisms that require the participation of multiple trusted individuals to perform sensitive CA cryptographic operations. Getronics uses "Secret Sharing" to split the activation data needed to make use of a CA 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 of Secret Shares created and distributed for a particular hardware cryptographic module (n) is required to activate a CA private key stored on the module.

The threshold number of shares needed to sign a CA certificate is 3. It should be noted that the number of shares distributed for disaster recovery tokens may be less than the number distributed for operational tokens, while the threshold number of required shares remains the same. Secret Shares are protected in accordance with this CPS.

6.2.4 Private Key Escrow

CA private keys are not escrowed. Escrow of private keys for end user subscribers is explained in more detail in § 4.12.

6.2.5 Private Key Backup

Getronics creates backup copies of CA private keys for routine recovery and disaster recovery purposes. Such keys are stored in encrypted form within hardware cryptographic modules and associated key storage devices. Cryptographic modules used for CA private key storage meet the requirements of this CPS. CA private keys are copied to backup hardware cryptographic modules in accordance with this CPS.

Modules containing onsite backup copies of CA private keys are subject to the requirements of this CPS.

Getronics does not store copies of RA private keys. For the backup of end-user Subscriber private keys, see § 6.2.3 and § 4.12.

6.2.6 Private Key Archival

When Getronics CA key pairs reach the end of their validity period, such CA key pairs will be archived for a period of at least 5 years. Archived CA key pairs will be securely stored using hardware cryptographic modules that meet the requirements of this CPS. Procedural controls prevent archived CA key pairs from being returned to production use. Upon the end of the archive period, archived CA private keys will be securely destroyed in accordance with this CPS.

Upon expiration of a Getronics CA Certificate, the key pair associated with the certificate will be securely retained for a period of at least 5 years using hardware cryptographic modules that meet the requirements of this CPS. These CA key pairs shall not be used for any signing events after their expiration date, unless the CA Certificate has been renewed in terms of this CPS.

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Getronics does not archive copies of RA and Subscriber private keys.

6.2.7 Private Key Transfer Into or From a Cryptographic Module

Getronics generates CA key pairs on the hardware cryptographic modules in which the keys will be used. In addition, Getronics makes copies of such CA key pairs for routine recovery and disaster recovery purposes. Where CA key pairs are backed up to another hardware cryptographic module, such key pairs are transported between modules in encrypted form.

6.2.8 Private Key Storage on Cryptographic Module

CA or RA private keys held on hardware cryptographic modules are stored in encrypted form.

6.2.9 Method of Activating Private Key

All Getronics Subdomain Participants protect the activation data for their private keys against loss, theft, modification, unauthorized disclosure, or unauthorized use.

6.2.9.1 Class 2 Certificates

The Standard for Class 2 Private Key protection is for Subscribers to:

- Use a password in accordance with § 6.4.1 or security of equivalent strength to authenticate the Subscriber before the activation of the private key, which includes, for instance, a password to operate the private key, a Windows logon or screen saver password, a network logon password; and
- Take commercially reasonable measures for the physical protection of the Subscriber's workstation to prevent use of the workstation and its associated private key without the Subscriber's authorization.

When deactivated, private keys shall be kept in encrypted form only.

6.2.9.2 Class 3 Certificates other than Administrator Certificates

The Standard for Class 3 private key protection (other than Administrators) is for Subscribers to:

- Use a SSCD, biometric access device, or security of equivalent strength to authenticate the Subscriber before the activation of the private key; and
- Take commercially reasonable measures for the physical protection of the Subscriber's workstation to prevent use of the workstation and its associated private key without the Subscriber's authorization.

Use of a password along with a SSCD or biometric access device in accordance with § 6.4.1 is recommended.

When deactivated, private keys shall be kept in encrypted form only.

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6.2.9.3 Administrators' Private Keys (Class 3)

The Standard for Administrators' private key protection requires them to:

- Use a SSCD, biometric access device, password in accordance with § 6.4.1, or security of equivalent strength to authenticate the Administrator before the activation of the private key, which includes, for instance, a password to operate the private key, a Windows logon or screen saver password, or a network logon password; and
- Take commercially reasonable measures for the physical protection of the Administrator's workstation to prevent use of the workstation and its associated private key without the Administrator's authorization.

Getronics recommends that Administrators use a SSCD, biometric access device, or security of equivalent strength along with the use of a password in accordance with § 6.4.1 to authenticate the Administrator before the activation of the private key.

When deactivated, private keys shall be kept in encrypted form only.

6.2.9.4 Qualified Certificates

The Standard for Qualified Certificates Private Key protection is for Subscribers to:

- Use an SSCD in connection with the use and activation of their private keys, in compliance with the SSCD requirements defined in CWA 14169 (protection profile 2/3), developed by EESSI (ETSI, CEN/ISSS)
- Use a password in accordance with § 6.4.1 or security of equivalent strength to authenticate the Subscriber before the activation of the private key in the SSCD; and
- Take commercially reasonable measures for the physical protection of the Subscriber's workstation to prevent use of the workstation, SSCD and its associated private key without the Subscriber's authorization.
- 6.2.9.5 Enterprise RAs using a Cryptographic Module (with Automated Administration or with Managed PKI Key Manager Service)

The Standard for private key protection for Administrators using such a cryptographic module requires them to:

- Use the cryptographic module along with a password in accordance with § 6.4.1 to authenticate the Administrator before the activation of the private key; and
- Take commercially reasonable measures for the physical protection of the workstation housing the cryptographic module reader to prevent use of the workstation and the private key associated with the cryptographic module without the Administrator's authorization.

6.2.9.6 Private Keys Held by Processing Centers (Class 2-3, Qualified Certificates)

An online CA's private key shall be activated by a threshold number of Shareholders, as defined in § 6.2.2, supplying their activation data (stored on secure media). Once the private key is activated, the private key may be active for an indefinite period until it is deactivated when the CA goes offline.

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Similarly, a threshold number of Shareholders shall be required to supply their activation data in order to activate an offline CA's private key. Once the private key is activated, it shall be active only for one time.

6.2.10 Method of Deactivating Private Key

Getronics CA private keys are deactivated upon removal from the token reader. Getronics RA private keys (used for authentication to the RA application) are deactivated upon system log off. Getronics RAs are required to log off their workstations when leaving their work area.

Client Administrators, RA, and end-user Subscriber private keys may be deactivated after each operation, upon logging off their system, or upon removal of a SSCD from the SSCD reader depending upon the authentication mechanism employed by the user. In all cases, end-user Subscribers have an obligation to adequately protect their private key(s) in accordance with this CPS.

6.2.11 Method of Destroying Private Key

Where required, VeriSign and Getronics destroy CA private keys in a manner that reasonably ensures that there are no residual remains of the key that could lead to the reconstruction of the key. VeriSign and Getronics utilize the zeroization function of its hardware cryptographic modules and other appropriate means to ensure the complete destruction of CA private keys. When performed, CA key destruction activities are logged.

6.2.12 Cryptographic Module Rating

See § 6.2.1

6.3 Other Aspects of Key Pair Management

All aspects of key pair management are carried out by Getronics by following careful procedures that match the intended goal.

6.3.1 Public Key Archival

Getronics CA, RA and end-user Subscriber Certificates are backed up and archived as part of Getronics' routine backup procedures.

6.3.2 Certificate Operational Periods and Key Pair Usage

The Operational Period of a Certificate ends upon its expiration or revocation. The Operational Period for key pairs is the same as the Operational Period for the associated Certificates, except that they may continue to be used for decryption and signature verification. The maximum Operational Periods for Getronics Certificates for Certificates issued on or after the effective date of this CPS are set forth in Table 7 below.

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In addition, CAs stop issuing new Certificates at an appropriate date prior to the expiration of the CA's Certificate such that no Certificate issued by a Subordinate CA expires after the expiration of any Superior CA Certificates.

Certificate Issued By:	Validity Period
PCA self-signed (1024 bits)	Up to 30 years
PCA self-signed (2048 bits)	Up to 50 years
PCA to Offline intermediate CA	Generally 10 years but up to 15 years after renewal
PCA to online CA	Generally 5 years but up to 10 years after renewal ¹⁶
Offline intermediate CA to online CA	Generally 5 years but up to 10 years after renewal ¹⁷
Online CA to end-user Subscriber	Normally up to 2 years, but up to 5 years under the conditions described below ¹⁸
Online CA to End-Entity Organizational Subscriber	Normally up to 3 years ¹⁹

Table 7 – Certificate Operational Periods

¹⁶ The VeriSign Onsite Administrator CA-Class 3 has a validity beyond 10 years to support legacy systems and shall be revoked when appropriate

17 If 5-year end-user subscriber certificates are issued, the online CA certificate's operational period will be 10 years with no option to renew. Re-key will be required after 5 years.

¹⁸ If 5-year end-user subscriber certificates are issued, the online CA certificate's operational period will be 10 years with no option to renew. Re-key will be required after 5 years.

¹⁹ Organizational end-entity certificates used solely to support the operation of a portion of the VTN may be issued with a validity period of 5 year and up to a maximum of 10 years after renewal.

Except as noted in this section, Getronics Subdomain Participants shall cease all use of their key pairs after their usage periods have expired.

Certificates issued by CAs to end-user Subscribers may have Operational Periods longer than two years, up to five years, if the following requirements are met:

- The Certificates are individual Certificates,
- Subscribers' key pairs reside on a hardware token, such as a SSCD.

Getronics also uses a Secure Server CA as a legacy self-signed issuing root CA which is part of the VeriSign Trust Network and has an operational period of up to 15 years. end-user Subscriber Certificates issued by this CA meet the requirements for CA to end-user Subscriber Certificates specified in Table 7 above.

Getronics also uses the VeriSign Class 3 International Server CA which is an online CA signed by a PCA. The validity of this CA may exceed the validity periods described in Table 7 above in order to meet certain contractual obligations with browser vendors regarding the use of SGC/step up technology, and ensure continued interoperability of certificates offering this capability.

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6.4 Activation Data

6.4.1 Activation Data Generation and Installation

Activation data (Secret Shares) used to protect tokens containing Getronics CA private keys is generated in accordance with the requirements of CPS § 6.2.2 and the Key Ceremony Reference Guide. The creation and distribution of Secret Shares is logged.

Getronics RAs are required to select strong passwords to protect their private keys. Getronics' password selection guidelines require that passwords:

- be generated by the user;
- have at least eight characters;
- have at least one alphabetic and one numeric character;
- have at least one lower-case letter;
- not contain many occurrences of the same character;
- not be the same as the operator's profile name; and
- not contain a long substring of the user's profile name.

Getronics strongly recommends that Enterprise Administrators, RAs, and end-user Subscribers choose passwords that meet the same requirements. Getronics also recommends the use of two factor authentication mechanisms (e.g., token and passphrase, biometric and token, or biometric and passphrase) for private key activation.

The SSCD or SUD that the Key pair and its associated Qualified Certificate are stored in, is supplied with the activation data. This PIN and PUK code are generated by a trusted system, consist of five characters and are printed out on a PIN-mail. After the PIN-mail is accepted, the system destroys the PIN and PUK code. In the period of time between generation and destroying of the codes, they are stored by the trusted system in encrypted form.

6.4.2 Activation Data Protection

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

Getronics RAs are required to store their Administrator/RA private keys in encrypted form using password protection and their browser's "high security" option.

Getronics strongly recommends that Client Administrators, RAs and end-user Subscribers store their private keys in encrypted form and protect their private keys through the use of a hardware token and/or strong passphrase. The use of two factor authentication mechanisms (e.g., token and passphrase, biometric and token, or biometric and passphrase) is encouraged.

6.4.3 Other Aspects of Activation Data for Qualified Certificates

The end-user Subscriber must use the PIN-code belonging to the SSCD or SUD which they received to access the Key Material and the Qualified Certificate. If an incorrect PIN-code is entered three

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times, the SSCD or SUD is automatically blocked. The only way to unblock it if this happens, is by using the PUK-code. If an incorrect PUK-code is entered three times, the SSCD or SUD is permanently blocked and can thus no longer be used.

6.4.3.1 Activation Data Transmission

To the extent activation data for private keys are transmitted, VTN Participants shall protect the transmission using methods that protect against the loss, theft, modification, unauthorized disclosure, or unauthorized use of such private keys. To the extent Windows or network logon user name/password combination is used as activation data for an end-user Subscriber, the passwords transferred across a network shall be protected against access by unauthorized users.

The PIN-mail containing the PIN and PUK code belonging to the SSCD or SUD that contains the Key Pair and Qualified Certificate, is sent to the end-user Subscriber at a different time and by a different route than the SSCD or SUD. After receiving this activation data, the end-user Subscriber is fully responsible for protecting it.

6.4.3.2 Activation Data Destruction

Activation data for CA private keys shall be decommissioned using methods that protect against the loss, theft, modification, unauthorized disclosure, or unauthorized use of the private keys protected by such activation data. After the record retention periods in § 5.5.2 lapse, Getronics shall decommission activation data by overwriting and/or physical destruction.

6.5 Computer Security Controls

Getronics performs all CA and RA functions using Trustworthy Systems. Customers must use Trustworthy Systems.

6.5.1 Specific Computer Security Technical Requirements

Getronics ensures that the systems maintaining CA software and data files are Trustworthy Systems secure from unauthorized access. In addition, Getronics 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.

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

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

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Direct access to Getronics databases supporting Getronics' CA Operations is limited to Trusted Persons in Getronics' Production Operations group having a valid business reason for such access.

6.5.2 Computer Security Rating

A version of VeriSign's core Processing Center software has satisfied the EAL 4 assurance requirements of ISO/IEC 15408-3:1999, *Information technology - Security techniques --Evaluation criteria for IT security -- Part 3: Security assurance requirements*, based on an independent laboratory's Common Criteria evaluation of the software against the VeriSign Processing Center Security Target. VeriSign will, from time to time, evaluate new releases of the Processing Center software under the Common Criteria.

The version of Processing Center used by Getronics is positively audited against CWA 14167-1 Security Requirements for Trustworthy Systems Managing Certificates for Electronic Signatures – Part 1: System Security Requirements by an independent auditor.

6.6 Life Cycle Technical Controls

6.6.1 System Development Controls

Applications are developed and implemented by VeriSign in accordance with VeriSign systems development and VeriSign/ Getronics change management standards. Getronics also provides software to its customers for performing RA and certain CA functions. Such software is developed in accordance with VeriSign system development standards.

VeriSign developed software, when first loaded, provides a method to verify that the software on the system originated from VeriSign, has not been modified prior to installation, and is the version intended for use.

For the issuance of Qualified Certificates on SSCDs, a Card Management System is used that is built and maintained by Getronics around a modular product from a specialized provider. This CMS is positively evaluated against the CWA 14167-1 requirements.

A segregation of functions has been made between the development organisation, the users organisation and the management organisation in the management of the CMS. This segregation of functions has been extended to the segregation of the production, test and development environments. The existing change management procedure is used to carefully make the move from the development environment to the testing environment and on to the production environment. This change management procedure includes tracking and registering versions, modifications and emergency repairs to all operational software.

6.6.2 Security Management Controls

Getronics has mechanisms and/or policies in place to control and monitor the configuration of its CA systems. VeriSign creates a hash of all software packages and VeriSign software updates.

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This hash is used to verify the integrity of such software manually. Upon installation and periodically thereafter, Getronics validates the integrity of its CA systems.

6.6.3 Life Cycle Security Controls

No stipulation.

6.7 Network Security Controls

Getronics performs all its CA and RA functions using networks secured in accordance with the Security and Audit Requirements Guide to prevent unauthorized access and other malicious activity. Getronics protects its communications of sensitive information through the use of encryption and digital signatures.

6.8 Time-stamping

Certificates, CRLs, and other revocation database entries shall contain time and date information. Such time information is not cryptographic-based.

Time and date information is based on one or more trusted time sources.

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7 Certificate, CRL and OCSP Profiles

7.1 Certificate Profile

Getronics Certificates conform to:

(a) ITU-T Recommendation X.509 (1997): Information Technology - Open Systems Interconnection - The Directory: Authentication Framework, June 1997, and

(b) RFC 3280: Internet X.509 Public Key Infrastructure Certificate and CRL Profile, April 2002 ("RFC 3280").

Qualified Certificates in content adhere to the Qualified Certificate Profile. Pursuant to the Qualified Certificate Profile, Qualified Certificates comply with RFC 3039 where it does not conflict with the Qualified Certificate Profile.

At a minimum, X.509 Certificates shall contain the basic fields and indicated prescribed values or value constraints in Table 8 below:

Field	Value or Value constraint
Serial Number	Unique value per Issuer DN
Signature Algorithm	Name of the algorithm used to sign the certificate (See CPS § 7.1.3)
Issuer DN	See CPS § 7.1.4
Valid From	Universal Coordinate Time base. Synchronized to Master Clock of GPS and DCF. Encoded in accordance with RFC 3280.
Valid To	Universal Coordinate Time base. Synchronized to Master Clock of GPS and DCF. Encoded in accordance with RFC 3280.
Subject DN	See CPS § 7.1.4
Subject Public Key	Encoded in accordance with RFC 3280
Signature	Generated and encoded in accordance with RFC 3280
Table 8 - Cortifi	cate Profile Basic Fields

Table 8 – Certificate Profile Basic Fields

7.1.1 Version Number(s)

Getronics Certificates are X.509 Version 3 Certificates although certain Root Certificates are permitted to be X.509 Version 1 Certificates to support legacy systems. CA certificates shall be X.509 Version 1 or Version 3 CA Certificates. end-user Subscriber Certificates shall be X.509 Version 3.

7.1.2 Certificate Extensions

Getronics populates X.509 Version 3 VTN Certificates with the extensions required by §7.1.2.1 - 7.1.2.8. Private extensions are permissible, but the use of private extensions is not warranted under the VTN CP and this CPS unless specifically included by reference.

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7.1.2.1 Key Usage

X.509 Version 3 Certificates are generally populated in accordance with RFC 3280: Internet X.509 Public Key Infrastructure Certificate and CRL Profile, April 2002.

The KeyUsage extension in X.509 Version 3 Certificates is generally configured so as to set and clear bits and the criticality field in accordance with Table 9 below. The criticality field of the KeyUsage extension is generally set to TRUE for CA certificates and may be set to either TRUE, or FALSE for end entity Subscriber certificates.

Field		CAs	Class 2 End- User Subscribers	Automated Administration tokens and Class 2-3 End- User Subscribers	Dual Key Pair Signature (Managed PKI Key Manager)	Dual Key Pair Encipherment (Managed PKI Key Manager)	Qualified Certificates
С	iticality	True	False	False	False	False	True
0	digitalSignature	Clear	Set	Set	Set	Clear	Clear
1	nonRepudiation	Clear	Clear	Clear	Clear	Clear	Set
2	keyEncipherment	Clear	Set	Set	Clear	Set	Clear
3	dataEncipherment	Clear	Clear	Clear	Clear	Clear	Clear
4	keyAgreement	Clear	Clear	Clear	Clear	Clear	Clear
5	keyCertSign	Set	Clear	Clear	Clear	Clear	Clear
6	CRLSign	Set	Clear	Clear	Clear	Clear	Clear
7	encipherOnly	Clear	Clear	Clear	Clear	Clear	Clear
8	decipherOnly	Clear	Clear	Clear	Clear	Clear	Clear

Table 9 – Settings for KeyUsage Extension

7.1.2.2 Certificate Policies Extension

CertificatePolicies extension of X.509 Version 3 Certificates are populated with the object identifier for the VTN CP in accordance with CP § 7.1.6 and with policy qualifiers set forth in CP § 7.1.8. The criticality field of this extension shall be set to FALSE.

7.1.2.3 Subject Alternative Names

The subjectAltName extension of X.509 Version 3 Certificates are populated in accordance with RFC 3280. The criticality field of this extension shall be set to FALSE.

7.1.2.4 Basic Constraints

Getronics X.509 Version 3 CA Certificates BasicConstraints extension shall have the CA field set to TRUE. end-user Subscriber Certificates BasicConstraints extension, shall be populated with a value

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of an empty sequence. The criticality field of this extension shall be set to TRUE for CA Certificates, but otherwise set to FALSE.

Getronics X.509 Version 3 CA Certificates shall have a "pathLenConstraint" field of the BasicConstraints extension set to the maximum number of CA certificates that may follow this Certificate in a certification path. CA Certificates issued to an online customer issuing end-user Subscriber Certificates shall have a "pathLenConstraint" field set to a value of "0" indicating that only an end-user Subscriber Certificate may follow in the certification path.

7.1.2.5 Extended Key Usage

Getronics makes use of the ExtendedKeyUsage extension for the specific types of Getronics X.509 Version 3 Certificates listed in Table 10 below. For other types of Certificates, Getronics does not usually use the Extended Key Usage extension.

Certificate Category Type	Certificate Type
Certification Authority (CA)	Class 3 International Server CA
OCSP Responder	Class 2-3 Public Primary OCSP Responders Secure Server OCSP Responder
Class 3 Web Server Certificates	Premium SSL IDs Standard SSL IDs
Individual Certificates	Class 2 Individual Certificates Qualified Certificates

Table 10 – Certificates using the Extended Key Usage Extension

For these Certificates, Getronics populates the ExtendedKeyUsage extension in accordance with Table 11 below.

		Class 3 International Server CA	OCSP Responders	Standard SSL ID	Premium SSL IDs	Class 2 Individu al Certificat es	Qualified Certificat es (authenti cation)
Cri	ticality	FALSE	FALSE	FALSE	FALSE	SE	LSE
0	ServerAuth	Clear	Clear	Set	Clear	ar	ar
1	ClientAuth	Clear	Set	Set	Clear	Set	Set
2	CodeSigning	Clear	Clear	Clear	Clear	ar	Set
3	E-mailProtection	Clear	Set	Clear	Clear	Set	Set
4	IpsecEndSystem	Clear	Clear	Clear	Clear	ar	Set
5	IpsecTunnel	Clear	Clear	Clear	Clear	ar	Set
6	IpsecUser	Clear	Clear	Clear	Clear	ar	Set
7	TimeStamping	Clear	Clear	Clear	Clear	ar	Set
8	OCSP Signing	Clear	Set	Clear	Clear	ar	ar
-	Microsoft Server Gated	Clear	Clear	Clear	Set	ar	ar

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		Class 3 International Server CA	OCSP Responders	Standard SSL ID	Premium SSL IDs	Class 2 Individu al Certificat es	Qualified Certificat es (authenti cation)
	Crypto (SGC) OID: 1.3.6.1.4.1.311.10.3.3						
-	Netscape SGC - OID: 2.16.840.1.113730.4.1	Set	Clear	Clear	Set	ar	ar
-	TBD – OID: 2.16.840.1.113733.1.8.1	Set	Clear	Clear	Clear	ar	ar

Table 11 – Settings for ExtendedKeyUsage Extension

7.1.2.6 CRL Distribution Points

Generally X.509 Version 3 end user Subscriber Certificates and Intermediate CA Certificates include the cRLDistributionPoints extension containing the URL of the location where a Relying Party can obtain a CRL to check the CA Certificate's status. The criticality field of this extension is set to FALSE.

7.1.2.7 Authority Key Identifier

Getronics generally populates the Authority Key Identifier extension of X.509 Version 3 end user Subscriber Certificates and Intermediate CA Certificates. When the certificate issuer contains the Subject Key Identifier extension, the Authority Key Identifier is composed of the 160-bit SHA-1 hash of the public key of the CA issuing the Certificate. Otherwise, the Authority Key Identifier extension includes the issuing CA's subject distinguished name and serial number. The criticality field of this extension is set to FALSE.

7.1.2.8 Subject Key Identifier

Where Getronics populates X.509 Version 3 VTN Certificates with a subjectKeyldentifier extension, the keyldentifier based on the public key of the Subject of the Certificate is generated in accordance with one of the methods described in RFC 3280. Where this extension is used, the criticality field of this extension is set to FALSE.

7.1.3 Algorithm Object Identifiers

Getronics VTN Certificates are signed using the following algorithm:

sha-1WithRSAEncryption OBJECT IDENTIFIER ::= {iso(1) member-body(2) us(840) rsadsi(113549) pkcs(1) pkcs-1(1) 5}.

Certificate signatures produced using these algorithms shall comply with RFC 3279.

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Md5WithRSAEncryption (OID: 1.2.840.113549.1.1.5) and md2WithRSAEncryption (OID: 1.2.840.113549.1.1.2) are no longer used to sign end entity certificates, but are used to sign CRLs for certain VeriSign legacy CA and end-user Subscriber Certificates.

Getronics Qualified Certificates and CRLs are signed with:

sha-1WithRSAEncryption (OID: 1.2.840.113549.1.1.5) or ecdsa-with-SHA1 (OID: 1.2.840.10045.1).

7.1.4 Name Forms

Getronics populates VTN Certificates with an Issuer and Subject Distinguished Name in accordance with § 3.1.1.

In addition, Getronics includes within end-user Subscriber Certificates either an additional Organizational Unit field or a Certificate Policy Extension that contains a notice stating that the terms of use of the Certificate are set forth in a URL which is a pointer to the applicable Relying Party Agreement.

Exceptions to the foregoing requirement are permitted when space, formatting, or interoperability limitations within Certificates make such an Organizational Unit impossible to use in conjunction with the application for which the Certificates are intended.

7.1.5 Name Constraints

No stipulation.

7.1.6 Certificate Policy Object Identifier

Where the Certificate Policies extension is used, Certificates contain the object identifier for the Certificate Policy corresponding to the appropriate Class of Certificate as set forth in the VTN CP §1.2. For legacy Certificates issued prior to the publication of the VTN CP which include the Certificate Policies extension, Certificates refer to the Getronics CPS.

7.1.7 Usage of Policy Constraints Extension

No stipulation.

7.1.8 Policy Qualifiers Syntax and Semantics

Getronics generally populates X.509 Version 3 VTN Certificates with a policy qualifier within the Certificate Policies extension. Generally, such Certificates contain a CPS pointer qualifier that points to the applicable Relying Party Agreement or the Getronics CPS. In addition, some Certificates contain a User Notice Qualifier which points to the applicable Relying Party Agreement.

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7.1.9 Processing Semantics for the Critical Certificate Policies Extension

No stipulation.

7.2 CRL Profile

CRLs contain the basic fields and contents specified in Table 12 below:

Field	Value or Value constraint
Version	See CPS §7.2.1.
Signature Algorithm	Algorithm used to sign the CRL. CRLs are signed using sha1WithRSAEncryption (OID: 1.2.840.113549.1.1.5) or md5RSA (OID: 1.2.840.113549.1.1.4) in accordance with RFC 3279.
Issuer	Entity who has signed and issued the CRL. The CRL Issuer Name is in accordance with the Issuer Distinguished Name requirements specified in CPS § 7.1.4.
Effective Date	Issue date of the CRL. CRL are effective upon issuance.
Next Update	Date by which the next CRL will be issued. The Next Update date for Getronics CRLs is set as follows: 3 months from the Effective Date for VeriSign PCAs and 10 days from the Effective Date for other Getronics CAs. CRL issuance frequency is in accordance with the requirements of CPS § 4.9.7.
Revoked Certificates	Listing of revoked Certificates, including the Serial Number of the revoked Certificate and the Revocation Date.

Table 12 – CRL Profile Basic Fields

7.2.1 Version Number(s)

Getronics supports both X.509 Version 1 and Version 2 CRLs. Version 2 CRLs comply with the requirements of RFC 3280.

7.2.2 CRL and CRL Entry Extensions

No stipulation.

7.3 OCSP Profile

OCSP (Online Certificate Status Protocol) is a way to obtain timely information about the revocation status of a particular certificate. Getronics uses OCSP to validate:

- Class 2 Enterprise certificates, and
- Class 3 SSL certificates.
- Qualified Certificates

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OCSP responders conform to RFC 2560.

7.3.1 Version Number(s)

Version 1 of the OCSP specification as defined by RFC 2560 is supported.

7.3.2 OCSP Extensions

Getronics does not use a nonce to establish the current freshness of each OCSP response and clients should not expect a nonce in the response to a request that contains a nonce. Instead, clients should use the local clock to check for response freshness.

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8 Compliance Audits and other Assessments

Getronics Nederland B.V. has been a certified Certification Service Provider for Qualified Certificates since 1st November 2002. The certification was carried out according to the "*Scheme for Certification of Certification Authorities against ETSI TS 101 456*" by KPMG Certification B.V. Getronics Nederland BV thus meets the criteria for certification service providers laid down in the Dutch Electronic Signatures Law ("*Wet Elektronische Handtekeningen*" - WEH). The aforementioned certification was extended on 1st November 2005 by BSI Management Systems B.V.

The certification body largely relies on the internal audits integrated into the Quality Management System for its audit. In principle, these internal audits are carried out annually in accordance with an internally drafted audit plan. The execution of this plan and the implementation of the recommendations in the internal audits are discussed and tracked by a Quality and Auditing Committee. The scope of the internal audit plan includes the entire management system of the Getronics department that implements the certification service (Security & Continuity Services, SCS). The scope of the plan also includes the activities other Getronics departments contribute to SCS, like, for instance, the HRM services and services to do with physical security.

The Scheme includes information on audit frequency, requirements that are to be met by the certifying institution, and information on how to deal with so-called non-conformities. A certifying institution must be accredited by the Dutch Accreditation Council ("*Raad voor Accreditatie*") before it can certify.

A transcription of the ETSI TS 101 456 certificate can be found in the Electronic Repository of the Getronics website. For security reasons, the audit reports written by the concerned auditors are confidential. They are not available to third parties and can only be viewed under strict confidentiality.

Getronics is registered with the Dutch Independent Post and Telecommunications Authority (*"Onafhankelijke Post en Telecommunicatie Autoriteit"* - OPTA) as a certified provider of Qualified Certificates to the public under registration number 940265.

In addition, an annual WebTrust for Certification Authorities examination is performed for the VTN Root CAs, Class 3 Organizational CAs, and Class 2 Organizational and Individual CAs, specified in CPS § 1.3.1.

Customer-specific CAs are not specifically audited as part of the audit of Getronics' operations unless required by the Customer.

In addition to compliance audits, VeriSign and/or Getronics shall be entitled to perform other reviews and investigations to ensure the trustworthiness of Getronics' Subdomain of the VTN, which include, but are not limited to:

• Getronics shall be entitled, within its sole and exclusive discretion, to perform at any time an "Exigent Audit/Investigation" on a Customer in the event Getronics has reason to believe that the audited entity has failed to meet VTN Standards, has experienced an incident or compromise, or has acted or failed to act, such that the audited entity's failure, the incident or

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compromise, or the act or failure to act poses an actual or potential threat to the security or integrity of the VTN.

 Getronics shall be entitled to perform "Supplemental Risk Management Reviews" on a Customer following incomplete or exceptional findings in a Compliance Audit or as part of the overall risk management process in the ordinary course of business.

Getronics shall be entitled to delegate the performance of these audits, reviews, and investigations to a third party audit firm. Entities that are subject to an audit, review, or investigation shall provide reasonable cooperation with VeriSign and the personnel performing the audit, review, or investigation.

8.1 Frequency and Circumstances of Assessment

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

8.2 Identity/Qualifications of Assessor

Getronics' CA compliance audits are performed by a public accounting firm that:

- Demonstrates proficiency in public key infrastructure technology, information security tools and techniques, security auditing, and the third-party attestation function, and
- Is accredited by the Dutch Order of Registered EDP Auditors (*"Nederlandse Orde van Register Edp-Auditors* " -NOREA) or a similar entity, 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.

8.3 Assessor's Relationship to Assessed Entity

Compliance audits of Getronics' operations are performed by a public accounting firm that is independent of Getronics.

8.4 Topics Covered by Assessment

The scope of Getronics' annual audit includes CA environmental controls, key management operations and Infrastructure/Administrative CA controls, certificate life cycle management and CA business practices disclosure.

8.5 Actions Taken as a Result of Deficiency

With respect to compliance audits of Getronics' operations, significant exceptions or deficiencies identified during the Compliance Audit will result in a determination of actions to be taken. This

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determination is made by Getronics management with input from the auditor. Getronics management is responsible for developing and implementing a corrective action plan. If Getronics determines that such exceptions or deficiencies pose an immediate threat to the security or integrity of the VTN, 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, Getronics Management will evaluate the significance of such issues and determine the appropriate course of action.

8.6 Communications of Results

Results of the compliance audit of Getronics' operations may be released at the discretion of Getronics management.

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9 Other Business and Legal Matters

9.1 Fees

9.1.1 Certificate Issuance or Renewal Fees

Getronics and Customers are entitled to charge end-user Subscribers for the issuance, management, and renewal of Certificates.

9.1.2 Certificate Access Fees

Getronics and Customers do not charge a fee as a condition of making a Certificate available in a repository or otherwise making Certificates available to Relying Parties.

9.1.3 Revocation or Status Information Access Fees

Getronics does not charge a fee as a condition of making the CRLs required by the VTN CP available in a repository or otherwise available to Relying Parties. Getronics is, however, entitled to charge a fee for providing customized CRLs, OCSP services, or other value-added revocation and status information services. Getronics does not permit access to revocation information, Certificate status information, or time stamping in their repositories by third parties that provide products or services that utilize such Certificate status information without Getronics' prior express written consent.

9.1.4 Fees for Other Services

Getronics does not charge a fee for access to this CPS. Any use made for purposes other than simply viewing the document, such as reproduction, redistribution, modification, or creation of derivative works, shall be subject to a license agreement with the entity holding the copyright to the document.

9.2 Financial Responsibility

Getronics has taken adequate arrangements, in the form of insurances, among others, to cover the financial risks related to providing certification services. Furthermore, Getronics possesses the financial stability and resources needed for the healthy operation of its enterprise.

9.2.1 Insurance Coverage

Customers are encouraged to maintain a commercially reasonable level of insurance coverage for errors and omissions, either through an errors and omissions insurance program with an insurance carrier or a self-insured retention. Getronics maintains such errors and omissions insurance coverage.

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9.2.2 Other Assets

Getronics has enough financial stability and resources required to operate as a Certification Service Provider.

Customers shall have sufficient financial resources to maintain their operations and perform their duties, and they must be reasonably able to bear the risk of liability to Subscribers and Relying Parties.

9.3 Confidentiality of Business Information

Getronics Nederland B.V.'s annual financial report is integrated into Getronics N.V.'s annual financial report. Getronics N.V. is listed on the stock market and is thus not allowed to provide financial information other than through regular financial reports and official channels.

9.3.1 Scope of Confidential Information

The following records of Subscribers shall be kept confidential and private ("Confidential / Private Information"), subject to § 9.3.2:

- CA application records, whether approved or disapproved,
- Certificate Application records,
- Private keys held by Customers using Managed PKI Key Manager and information needed to recover such Private Keys,
- PIN codes, PUK codes and Challenge Phrases,
- Transaction records (both full records and the audit trail of transactions),
- Audit trail records created or retained by Getronics or a Customer,
- Audit reports created by Getronics or a Customer (to the extent such reports are maintained), or their respective auditors (whether internal or public),
- Quality Management and Information Security Management System, such as
 - o Contingency planning and disaster recovery plans, and
 - Security measures controlling the operations of VeriSign hardware and software and the administration of Certificate services and designated enrollment services.

9.3.2 Information Not Within the Scope of Confidential Information

Certificates, Certificate revocation and other status information, Getronics repositories and information contained within them are not considered Confidential/Private Information. Information not expressly deemed Confidential/Private Information under § 9.3.1 shall be considered neither confidential nor private. This section is subject to applicable privacy laws.

9.3.3 Responsibility to Protect Confidential Information

Getronics has policy in place for all information related to security issues (see § 9.3.1, among others). One thing the policy states is that this information is confidential and is only made available on a need-to-know basis. This means that the information can only be accessed by third parties within the

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Getronics building after a strict pledge of secrecy has been given and after showing a clear need (e.g. performing an audit) to access the information.

9.4 Privacy of Personal Information

Getronics meets the requirements of the Dutch Privacy Law ("*Wet Bescherming Persoonsgegevens*" - WBP). Getronics is registered with the Dutch Data Protection Authority ("*College Bescherming Persoonsgegevens*") as a company responsible for processing personal information for the purpose of providing certification services.

9.4.1 Privacy Policy

Getronics has implemented a privacy policy, which is located at: <u>https://www.pki.getronicspinkroccade.nl/repository</u>. This policy is in compliance with the applicable Dutch Privacy Law (*"Wet Bescherming Persoonsgegevens"* - WBP).

9.4.2 Information Treated as Private

Any information about Subscribers that is not publicly available through the content of the issued certificate, certificate directory and online CRLs is treated as private

9.4.3 Information Not Deemed Private

The data published concerning certificates is publicly accessible. The information given regarding published and revoked certificates is limited to what is mentioned in Chapter 7 *"Certificate, CRL and OCSP Profiles"* of this CPS. Information on the revocation of certificates is available through the CRL. The information given in the CRL is limited to the certificate number, the time of revocation and the status (valid/revoked) of the certificate.

9.4.4 Responsibility to Protect Private Information

Getronics, as other VTN participants, receiving private information shall secure it from compromise and disclosure to third parties and shall comply with all local privacy laws in their jurisdiction.

9.4.5 Notice and Consent to Use Private Information

Unless otherwise stated in this CPS, the applicable Privacy Policy or by agreement, private information will not be used without the consent of the party to whom that information applies. This section is subject to applicable privacy laws.

The Subscriber and Subject agree to the publication of certificate data by signing the Subscriber Agreement and the applicable conditions. Getronics considers the completion of the application procedure by a end-user Subscriber to be the permission to publish the information in the Certificate.

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9.4.6 Sharing Information Due to Legal Subpoena

Getronics does not provide confidential information to criminal investigators unless Dutch laws and regulations require Getronics to do so, in which case the information will only be shared after a legal subpoena has been given.

9.4.7 Sharing Information in Relation to Private Law Argumentation

Getronics stores the Certificate and the information given during Certificate application for a period of time - the length of which will be communicated to the client and/or the end-user Subscriber - and for the purpose of providing proof of certification in a judicial process, should this prove necessary. Confidential information will only be given to parties other than the client and the end-user Subscriber for the purpose of argumentation in a court case after the client or end-user Subscriber has given prior written consent.

9.4.8 Sharing Information After a Request by the Owner

If a client and/or end-user Subscriber requests Getronics to share the personal information it has stored on them, Getronics will do so. If a client requests the personal information of a end-user Subscriber that has received a Certificate based on the client's Certificate application, Getronics will share the information with them. Getronics has the right to charge a reasonable fee for every provision of such information.

9.4.9 Making Certificate Revocation Information Public

Information on the revocation of Certificates is available in the CRL. The information listed in the CRL is limited to the Certificate number and the time of revocation. Should Getronics unilaterally revoke a Certificate, it will be published in the CRL.

9.4.10 Other Information Disclosure Circumstances

No Stipulation.

9.5 Intellectual Property Rights

The allocation of Intellectual Property Rights among Getronics Subdomain Participants other than Subscribers and Relying Parties is governed by the applicable agreements among such Getronics Subdomain Participants. The following subsections of § 9.5 apply to the Intellectual Property Rights in relation to Subscribers and Relying Parties.

9.5.1 Property Rights in Certificates and Revocation Information

CAs retain all Intellectual Property Rights in and to the Certificates and revocation information that they issue. Getronics and Customers grant permission to reproduce and distribute Certificates on a

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nonexclusive royalty-free basis, provided that they are reproduced in full and that use of Certificates is subject to the Relying Party Agreement referenced in the Certificate. Getronics and Customers shall grant permission to use revocation information to perform Relying Party functions subject to the applicable CRL Usage Agreement, Relying Party Agreement, or any other applicable agreements.

9.5.2 Property Rights in the CPS

Getronics Subdomain Participants acknowledge that Getronics retains all Intellectual Property Rights in and to this CPS.

9.5.3 Property Rights in Names

A Certificate Applicant retains all rights it has (if any) in any trademark, service mark, or trade name contained in any Certificate Application and distinguished name within any Certificate issued to such Certificate Applicant.

9.5.4 Property Rights in Keys and Key Material

Key pairs corresponding to Certificates of CAs and end-user Subscribers are the property of the CAs and end-user Subscribers that are the respective Subjects of these Certificates, subject to the rights of enterprise Customers using Managed PKI Key Manager, regardless of the physical medium within which they are stored and protected, and such persons retain all Intellectual Property Rights in and to these key pairs.

Without limiting the generality of the foregoing, VeriSign's root public keys and the root Certificates containing them, including all PCA public keys and self-signed Certificates, are the property of VeriSign. VeriSign licenses software and hardware manufacturers to reproduce such root Certificates to place copies in trustworthy hardware devices or software.

Finally, Secret Shares of a CA's private key are the property of the CA, and the CA retains all Intellectual Property Right in and to such Secret Shares even though they cannot obtain physical possession of the those shares or the CA from Getronics.

9.6 Representations and Warranties

9.6.1 CA Representations and Warranties

See the General and/or Specific Conditions for this.

9.6.2 RA Representations and Warranties

See the General and/or Specific Conditions for this.

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9.6.3 Subscriber Representations and Warranties

See the General and/or Specific Conditions for this.

9.6.4 Relying Party Representations and Warranties

See the General and/or Specific Conditions for this.

9.6.5 Representations and Warranties of Other Participants

No stipulation

9.7 Disclaimers of Warranties

See the General and/or Specific Conditions for this.

9.8 Limitations of Liability

See the General and/or Specific Conditions for this.

9.9 Indemnities

9.9.1 Indemnification by Subscribers

See the General and/or Specific Conditions for this.

9.9.2 Indemnification by Relying Parties

See the General and/or Specific Conditions for this.

9.10 Term and Termination

9.10.1 Term

The CPS becomes effective upon publication in the Getronics repository. Amendments to this CPS become effective upon publication in the Getronics repository.

9.10.2 Termination

This CPS as amended from time to time shall remain in force until it is replaced by a new version.

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9.10.3 Effect of Termination and Survival

Upon termination of this CPS, Getronics Subdomain participants are nevertheless bound by its terms for all certificates issued for the remainder of the validity periods of such certificates.

9.11 Individual Notices and Communications with Participants

Unless otherwise specified by agreement between the parties, Getronics Subdomain participants shall use commercially reasonable methods to communicate with each other, taking into account the criticality and subject matter of the communication.

Getronics s uses several methods to communicate with those concerned. One way is when the Validation department employees that process Certificate applications talk to clients in person or by telephone. This department can be reached by telephone at +31[0]55 577 8395

The aforementioned documents and much other information is available in the Electronic Repository. It is also always possible to ask questions or discuss other matters by sending an e-mail to <u>pkivalidation@getronics.com</u>.

9.12 Amendments

9.12.1 Procedure for Amendment

Getronics has the right to modify or make additions to this CPS. The functioning of the valid CPS is evaluated at least once a year by the Getronics PMA. Clients and Relying Parties may submit remarks on CPS content to the Getronics PMA (<u>pkisupport@getronics.com</u>). Should changes to the CPS be necessary based on these remarks, the PMA will make the necessary changes in accordance with the change management process that has been set up for this purpose.

Modifications to the CPS are determined by the Getronics PMA. Editorial changes or correction of apparent writing or spelling errors can go into effect without prior notification and can be recognized through a change in the version number by 0.1 (e.g. 1.1 becomes 1.2). In the case of major modifications, a new version of the CPS is produced and the version number is increased by 1 (e.g. 1.0 becomes 2.0)

Amended versions or updates shall be linked to the Practices Updates and Notices section of the Getronics Repository located at: https://www.pki.getronicspinkroccade.nl/repository/updates.

9.12.2 Notification Mechanism and Period

Getronics and the PMA reserve the right to amend the CPS without notification for amendments that are not material, including, without limitation: corrections of typographical errors, changes to URLs, and changes to contact information. The PMA's decision to designate amendments as material or non-material shall be within the PMA's sole discretion.

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In case of material amendments, proposed amendments to the CPS shall appear in the Practices Updates and Notices section of the Getronics Repository, which is located at: <u>https://www.pki.getronicspinkroccade.nl/repository/updates</u>, fifteen (15) days before the intended publish date (see § 9.12.2.1). The PMA solicits proposed amendments to the CPS from other Getronics Subdomain participants. If the PMA considers such an amendment desirable and proposes to implement the amendment, the PMA shall provide notice of such amendment in accordance with this section.

Notwithstanding anything in the CPS to the contrary, if the PMA believes that material amendments to the CPS are necessary immediately to stop or prevent a breach of the security of the VTN or any portion of it, Getronics and the PMA shall be entitled to make such amendments by publication in the Getronics Repository. Such amendments will be effective immediately upon publication.

9.12.2.1 Comment Period

Except as otherwise stated, the comment period for any material amendments to the CPS shall be fifteen (15) days, starting on the date on which the amendments are posted on the Getronics Repository. Any Getronics Subdomain participant shall be entitled to file comments with the PMA up until the end of the comment period.

9.12.2.2 Mechanism to Handle Comments

The PMA shall consider any comments on the proposed amendments. The PMA shall either (a) allow the proposed amendments to become effective without amendment, (b) amend the proposed amendments and republish them as a new amendment when required, or (c) withdraw the proposed amendments. The PMA is entitled to withdraw proposed amendments by providing notice in the Practices Updates and Notices section of the Getronics Repository. Unless proposed amendments are amended or withdrawn, they shall become effective upon the expiration of the comment period.

9.12.3 Circumstances under Which OID Must be Changed

No stipulation.

9.13 Dispute Resolution Provisions

Getronics has a complaints procedure in place. Complaints can be directed to the director of the Data Centre & Hosting Services Department of Getronics.

9.13.1 Disputes among Getronics and Customers

Disputes among Getronics Subdomain participants shall be resolved pursuant to provisions in the applicable agreements among the parties.

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9.13.2 Disputes with End-User Subscribers or Relying Parties

Disputes between Getronics and one of its end-user Subscribers or Relying Parties shall be resolved pursuant to provisions in the Subscriber Agreement and the Relying Party Agreement.

9.14 Governing Law

Subject to any limits appearing in applicable law, the Dutch Law governs the enforceability, construction, interpretation, and validity of this CPS, irrespective of contract or other choice of law provisions and without the requirement to establish a commercial nexus in The Netherlands. This choice of law is made to ensure uniform procedures and interpretation for all Getronics Subdomain Participants, no matter where they are located.

This governing law provision applies only to this CPS. Agreements incorporating the CPS by reference may have their own governing law provisions, provided that this § 9.14 governs the enforceability, construction, interpretation, and validity of the terms of the CPS separate and apart from the remaining provisions of any such agreements, subject to any limitations appearing in applicable law.

This CPS is subject to Dutch Law.

9.15 Compliance with Applicable Law

In general Getronics and its VTN-participants within the Getronics -Subdomain comply with Dutch Law. More specific, in case of Qualified Certificates, they comply with the Dutch Law on Electronic Signatures (*"Wet Elektronische Handtekeningen"* - WEH).

9.16 Miscellaneous Provisions

9.16.1 Entire Agreement

Not applicable.

9.16.2 Assignment

Not applicable.

9.16.3 Severability

In the event that a clause or provision of this CPS is held to be unenforceable by a court of law or other tribunal having authority, the remainder of the CPS shall remain valid.

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9.16.4 Enforcement (Attorney's Fees and Waiver of Rights)

Not applicable.

9.16.5 Force Majeure

To the extent permitted by applicable law, Subscriber Agreements and Relying Party Agreements shall include a force majeure clause protecting Getronics.

9.17 Other Provisions

Not applicable.

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Annex 1 Acronyms

Acronym	Definition
CA	Certification Authority
CP	Certificate Policy
CPS	Certification Practice Statement
CRL	Certificates Revocation List
CSP	Certification Service Provider
EESSI	European Electronic Signature Standardization Initiative
ETSI	European Telecommunication Standardization Institute
FIPS	Federal Information Processing Standards
HSM	Hardware Security Module
LRA	Local Registration Authority
OCSP	Online Certificate Status Protocol
OID	Object Identifier
OPTA	Independent Post and Telecommunication Authority
PIN	Personal Identification Number
PKI	Public Key Infrastructure
PMA	Policy Management Authority
PUK	Personal Unlock Code ("Persoonlijk Unlock Kengetal")
RA	Registration Authority
SSCD	Secure Signature Creation Device
SUD	Secure User Device
WEH	Law on Electronic Signatures ("Wet Elektronische Handtekeningen")
WJI	Law on Judicial Information ("Wet Justitiële Informatie")
WBP	Privacy Law ("Wet Bescherming Persoonsgegevens")
WID	Law on Identification Obligation("Wet op de Identificatieplicht")

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Annex 2 Definitions

Definitions

Term	Definition
	A Trusted Person within the organization of a Processing Center, Service Center, Managed PKI Customer, or Gateway Customer that performs validation and other CA or RA functions.
	A Certificate issued to an Administrator that may only be used to perform CA or RA functions.
	A leading trusted third party, for example in the technology, telecommunications, or financial services industry, that has entered into an agreement with VeriSign to be a VTN distribution and services channel within a specific territory.
Affiliate Audit Program Guide	A VeriSign document containing requirements for the Compliance Audits of Affiliates, including Certificate Management Control Objectives against which Affiliates will be audited.
-	A VeriSign document setting forth requirements for Affiliate CPSs, agreements, validation procedures, and privacy policies, as well as other requirements that Affiliates must meet.

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Term	Definition
Affiliated Individual	A natural person that is related to a Managed PKI Customer, Managed PKI Lite Customer,
	or Gateway Customer entity (i) as an officer, director, employee, partner, contractor, intern, or other person within the entity, (ii) as a member of a VeriSign registered community of interest, or (iii) as a person maintaining a relationship with the entity where the entity has business or other records providing appropriate assurances of the identity of such person.
Applicant	The Private Organization or Government Entity that applies for (or seeks renewal of) an EV Certificate naming it as the Subject.
Applicant Representative	An individual person employed by the Applicant for an EV certificate: (i) who signs and submits, or approves an EV Certificate Request on behalf of an Applicant, and/or (ii) who
	signs and submits a Subscriber Agreement on behalf of an Applicant.
Application Software Vendor	A developer of Internet browser software or other software that displays or uses certificates and distributes root certificates, such as KDE, Microsoft Corporation, Mozilla Corporation, Opera Software ASA, and Red Hat, Inc.
Automated Administration	A procedure whereby Certificate Applications are approved automatically if enrollment information matches information contained in a database.
Automated Administration Software Module	Software provided by VeriSign that performs Automated Administration.
Certificate	A message that, at least, states a name or identifies the CA, identifies the Subscriber, contains the Subscriber's public key, identifies the Certificate's Operational Period, contains a Certificate serial number, and is digitally signed by the CA.
Certificate Applicant	An individual or organization that requests the issuance of a Certificate by a CA.
Certificate Application	A request from a Certificate Applicant (or authorized agent of the Certificate Applicant) to a CA for the issuance of a Certificate.
Certificate Approver	[defined in Section 10]
Certificate Chain	An ordered list of Certificates containing an end-user Subscriber Certificate and CA Certificates, which terminates in a root Certificate.
Certificate Management Control Objectives	Criteria that an entity must meet in order to satisfy a Compliance Audit.
Certificate Policies (CP)	This document, which is entitled "VeriSign Trust Network Certificate Policies" and is the principal statement of policy governing the VTN.
Certificate Requester: [defined in Section 10]	
Certificate Revocation List (CRL)	A periodically (or exigently) issued list, digitally signed by a CA, of identified Certificates that have been revoked prior to their expiration dates in accordance with CP § 3.4. The list generally indicates the CRL issuer's name, the date of issue, the date of the next scheduled CRL issue, the revoked Certificates' serial numbers, and the specific times and reasons for revocation.
Certificate Signing Request	A message conveying a request to have a Certificate issued.
Certification Authority (CA)	An entity authorized to issue, manage, revoke, and renew Certificates in the VTN.
Certification Practice Statement (CPS)	A statement of the practices that VeriSign or an Affiliate employs in approving or rejecting Certificate Applications and issuing, managing, and revoking Certificates, and requires its Managed PKI Customers and Gateway Customers to employ.
Challenge Phrase	A secret phrase chosen by a Certificate Applicant during enrollment for a Certificate. When issued a Certificate, the Certificate Applicant becomes a Subscriber and a CA or RA can use the Challenge Phrase to authenticate the Subscriber when the Subscriber seeks to revoke or renew the Subscriber's Certificate.
Class	A specified level of assurances as defined within the CP. See CP § 1.1.1.
Client Service Center	A Service Center that is an Affiliate providing client Certificates either in the Consumer or Enterprise line of business.
Compliance Audit	A periodic audit that a Processing Center, Service Center, Managed PKI Customer, or Gateway Customer undergoes to determine its conformance with VTN Standards that apply to it.
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 compromise of the security of such private key.
Confidential/Private Information	Information required to be kept confidential and private pursuant to CP § 2.8.1.
Contract Signer: [defined in Section 10]	

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Term	Definition
CRL Usage Agreement	An agreement setting forth the terms and conditions under which a CRL or the information
	in it can be used.
Customer	An organization that is either a Managed PKI Customer, Gateway Customer, or ASB Customer.
Demand Deposit Account	A deposit account held at a bank or other financial institution, the funds deposited in which are payable on demand. The primary purpose of demand accounts is to facilitate cashless payments by means of check, bank draft, direct debit, electronic funds transfer, etc. Usage varies among countries, but a demand deposit account is commonly known as: a checking account, a share draft account, a current account, or a checking account.
Enterprise, as in Enterprise Service Center	A line of business that an Affiliate enters to provide Managed PKI services to Managed PKI Customers.
Enterprise EV Certificate:	An EV Certificate that an Managed PKI for SSL Customer authorizes VeriSign to issue at third and higher domain levels that contain the domain that have been verified by VeriSign.
Enterprise RA	A Managed PKI for SSL customer that can request multiple valid EV Certificates for Domains and Organizations verified by VeriSign for domains at third and higher domain levels that contain a domain that was verified by VeriSign in the original EV Certificate, in accordance with the requirements of these Guidelines.
Enterprise Roaming Server	A server residing at the site of a Managed PKI Customer used in conjunction with the VeriSign Roaming Service to hold Roaming Subscribers' encrypted private keys and portions of symmetric keys used to encrypt and decrypt Roaming Subscribers' private keys.
EV Certificate:	A digital certificate that contains information specified in the EV Guidelines and that has
	been validated in accordance with the Guidelines.
EV OID	An identifying number, called an "object identifier," that is included in the certificatePolicies field of an EV certificate that: (i) indicates which CA policy statement relates to that certificate, and which, (ii) by pre-agreement with one or more Application Software Vendor, marks the certificate as being an EV Certificate.
Exigent Audit/Investigation	An audit or investigation by VeriSign where VeriSign has reason to believe that an entity's failure to meet VTN Standards, an incident or Compromise relating to the entity, or an actual or potential threat to the security of the VTN posed by the entity has occurred.
Extended Validation	Validation Procedures defined by the Guidelines for Extended Validation Certificates published by a forum consisting of major certification authorities and browser vendors.
Intellectual Property Rights	Rights under one or more of the following: any copyright, patent, trade secret, trademark, and any other intellectual property rights.
Intermediate Certification Authority (Intermediate CA)	A Certification Authority whose Certificate is located within a Certificate Chain between the Certificate of the root CA and the Certificate of the Certification Authority that issued the end-user Subscriber's Certificate.
Key Generation Ceremony	A procedure whereby a CA's or RA's key pair is generated, its private key is transferred into a cryptographic module, its private key is backed up, and/or its public key is certified.
Key Manager Administrator	An Administrator that performs key generation and recovery functions for a Managed PKI Customer using Managed PKI Key Manager.
Key Recovery Block (KRB)	A data structure containing a Subscriber's private key that is encrypted using an encryption key. KRBs are generated using Managed PKI Key Manager software.
Key Recovery Service	A VeriSign service that provides encryption keys needed to recover a Key Recovery Block as part of a Managed PKI Customer's use of Managed PKI Key Manager to recover a Subscriber's private key.
Managed PKI	VeriSign's fully integrated managed PKI service that allows enterprise Customers of VeriSign and its Affiliates to distribute Certificates to individuals, such as employees, partners, suppliers, and customers, as well as devices, such as servers, routers, and firewalls. Managed PKI permits enterprises to secure messaging, intranet, extranet, virtual private network, and e-commerce applications.
Managed PKI Administrator	An Administrator that performs validation or other RA functions for an Managed PKI Customer.
Managed PKI Control Center	A web-based interface that permits Managed PKI Administrators to perform Manual Authentication of Certificate Applications
Managed PKI Key Manager	A key recovery solution for those Managed PKI Customers choosing to implement key recovery under a special Managed PKI Agreement.
Managed PKI Key Management Service Administrator's Guide	A document setting forth the operational requirements and practices for Managed PKI Customers using Managed PKI Key Manager.
Manual Authentication	A procedure whereby Certificate Applications are reviewed and approved manually one-by-

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Term	Definition
	one by an Administrator using a web-based interface.
NetSure Protection Plan	An extended warranty program, which is described in CP § 1.1.2.2.3.
Nonverified Subscriber Information	Information submitted by a Certificate Applicant to a CA or RA, and included within a Certificate, that has not been confirmed by the CA or RA and for which the applicable CA and RA provide no assurances other than that the information was submitted by the Certificate Applicant.
Non-repudiation	An attribute of a communication that provides protection against a party to a communication falsely denying its origin, denying that it was submitted, or denying its delivery. Denial of origin includes the denial that a communication originated from the same source as a sequence of one or more prior messages, even if the identity associated with the sender is unknown. Note: only an adjudication by a court, arbitration panel, or other tribunal can ultimately prevent repudiation. For example, a digital signature verified with reference to a VTN Certificate may provide proof in support of a determination of Non-repudiation by a tribunal, but does not by itself constitute Non-repudiation.
Offline CA	VeriSign PCAs, Issuing Root CAs and other designated intermediate CAs that are maintained offline for security reasons in order to protect them from possible attacks by intruders by way of the network. These CAs do not directly sign end user Subscriber Certificates.
Online CA	CAs that sign end user Subscriber Certificates are maintained online so as to provide continuous signing services.
Online Certificate Status Protocol (OCSP)	A protocol for providing Relying Parties with real-time Certificate status information.
Operational Period	The period starting with the date and time a Certificate is issued (or on a later date and time certain if stated in the Certificate) and ending with the date and time on which the Certificate expires or is earlier revoked.
PKCS #10	Public-Key Cryptography Standard #10, developed by RSA Security Inc., which defines a structure for a Certificate Signing Request.
PKCS #12	Public-Key Cryptography Standard #12, developed by RSA Security Inc., which defines a secure means for the transfer of private keys.
Policy Management Authority (PMA)	The organization within VeriSign responsible for promulgating this policy throughout the VTN.
Primary Certification Authority (PCA)	A CA that acts as a root CA for a specific Class of Certificates, and issues Certificates to CAs subordinate to it.
Processing Center	An organization (VeriSign or certain Affiliates) that creates a secure facility housing, among other things, the cryptographic modules used for the issuance of Certificates. In the Consumer and Web Site lines of business, Processing Centers act as CAs within the VTN and perform all Certificate lifecycle services of issuing, managing, revoking, and renewing Certificates. In the Enterprise line of business, Processing Centers provide lifecycle services on behalf of their Managed PKI Customers or the Managed PKI Customers of the Service Centers subordinate to them.
Public Key Infrastructure (PKI)	The architecture, organization, techniques, practices, and procedures that collectively support the implementation and operation of a Certificate-based public key cryptographic system. The VTN PKI consists of systems that collaborate to provide and implement the VTN.
Registration Authority (RA)	An entity approved by a CA to assist Certificate Applicants in applying for Certificates, and to approve or reject Certificate Applications, revoke Certificates, or renew Certificates.
Regulated Financial Institution	A financial institution that is regulated, supervised, and examined by governmental, national, state or provincial, or local authorities having regulatory authority over such financial institution based on the governmental, national, state or provincial, or local laws under which such financial institution was organized and/or licensed.
Relying Party	An individual or organization that acts in reliance on a certificate and/or a digital signature.
Relying Party Agreement	An agreement used by a CA setting forth the terms and conditions under which an individual or organization acts as a Relying Party.
Retail Certificate	A Certificate issued by VeriSign or an Affiliate, acting as CA, to individuals or organizations applying one by one to VeriSign or an Affiliate on its web site.
Roaming Subscriber	A Subscriber using the VeriSign Roaming Service whose private key is encrypted and decrypted with a symmetric key that is split between the VeriSign Roaming Server and an Enterprise Roaming Server.
RSA	A public key cryptographic system invented by Rivest, Shamir, and Adelman.
RSA Secure Server Certification Authority (RSA Secure Server CA)	The Certification Authority that issues Secure Server IDs.

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Term	Definition
RSA Secure Server Hierarchy	The PKI hierarchy comprised of the RSA Secure Server Certification Authority.
Secret Share	A portion of a CA private key or a portion of the activation data needed to operate a CA private key under a Secret Sharing arrangement.
Secret Sharing	The practice of splitting a CA private key or the activation data to operate a CA private key in order to enforce multi-person control over CA private key operations under CP § 6.2.2.
Secure Server ID	A Class 3 organizational Certificate used to support SSL sessions between web browsers and web servers.
Secure Sockets Layer (SSL)	The industry-standard method for protecting Web communications developed by Netscape Communications Corporation. The SSL security protocol provides data encryption, server authentication, message integrity, and optional client authentication for a Transmission Control Protocol/Internet Protocol connection.
Security and Audit Requirements Guide	A VeriSign document that sets forth the security and audit requirements and practices for Processing Centers and Service Centers.
Security and Practices Review	A review of an Affiliate performed by VeriSign before an Affiliate is permitted to become operational.
Service Center	An Affiliate that does not house Certificate signing units for the issuance of Certificates for the purpose of issuing Certificates of a specific Class or type, but rather relies on a Processing Center to perform issuance, management, revocation, and renewal of such Certificates.
Subdomain	The portion of the ∀TN under control of an entity and all entities subordinate to it within the ∀TN hierarchy.
Subject	The holder of a private key corresponding to a public key. The term "Subject" can, in the case of an organizational Certificate, refer to the equipment or device that holds a private key. A Subject is assigned an unambiguous name, which is bound to the public key contained in the Subject's Certificate.
Subscriber	In the case of an individual Certificate, a person who is the Subject of, and has been issued, a Certificate. In the case of an organizational Certificate, an organization that owns the equipment or device that is the Subject of, and that has been issued, a Certificate. A Subscriber is capable of using, and is authorized to use, the private key that corresponds to the public key listed in the Certificate.
Subscriber Agreement	An agreement used by a CA or RA setting forth the terms and conditions under which an individual or organization acts as a Subscriber.
Superior Entity	An entity above a certain entity within a VTN hierarchy (the Class 1, 2, or 3 hierarchy).
Supplemental Risk Management Review	A review of an entity by VeriSign following incomplete or exceptional findings in a Compliance Audit of the entity or as part of the overall risk management process in the ordinary course of business.
Reseller	An entity marketing services on behalf of VeriSign or an Affiliate to specific markets.
Trusted Person	An employee, contractor, or consultant of an entity within the VTN responsible for managing infrastructural trustworthiness of the entity, its products, its services, its facilities, and/or its practices as further defined in CP § 5.2.1.
Trusted Position	The positions within a VTN entity that must be held by a Trusted Person.
Trustworthy System	Computer hardware, software, and procedures that are reasonably secure from intrusion and misuse; provide a reasonable level of availability, reliability, and correct operation; are reasonably suited to performing their intended functions; and enforce the applicable security policy. A trustworthy system is not necessarily a "trusted system" as recognized in classified government nomenclature.
VeriSign	Means, with respect to each pertinent portion of this CPS, VeriSign, Inc. and/or any wholly owned VeriSign subsidiary responsible for the specific operations at issue.
VeriSign Digital Notarization Service	A service offered to Managed PKI Customers that provides a digitally signed assertion (a Digital Receipt) that a particular document or set of data existed at a particular point in time.
VeriSign Repository	VeriSign's database of Certificates and other relevant VeriSign Trust Network information accessible on-line.
VeriSign Roaming Server	A server residing at VeriSign's Processing Center used in conjunction with the VeriSign Roaming Service to hold portions of symmetric keys used to encrypt and decrypt Roaming Subscribers' private keys.
VeriSign Roaming Service	The service offered by VeriSign that enables a Subscriber to download his or her private key and perform private key operations on different client terminals.
VeriSign Trust Network (VTN)	The Certificate-based Public Key Infrastructure governed by the VeriSign Trust Network Certificate Policies, which enables the worldwide deployment and use of Certificates by VeriSign and its Affiliates, and their respective Customers, Subscribers, and Relying Parties.
VTN Participant	An individual or organization that is one or more of the following within the VTN: VeriSign,

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Term	Definition
	an Affiliate, a Customer, a Universal Service Center, a Reseller, a Subscriber, or a Relying Party.
	The business, legal, and technical requirements for issuing, managing, revoking, renewing, and using Certificates within the VTN.

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Annex 3 Credoc Services CV

Credoc Services CV is a Registration Authority for Belgian notaries ("Koninklijke Federatie van het Belgisch Notariaat / la Fédération Royale du Notariat Belge - KFBN/FRNB "). Credoc Services CV issues Qualified Certificates only to individuals, Belgian Notaries, not related to any organizational entity.

In this annex all the relevant deviate Credoc Services CV practices are described..

3.1.2 Need for Names to be Meaningful

Credoc Services CV doesn't allow the use of pseudonyms.

3.2.3.2 Authentication of Individual Identity for Qualified Certificates

The identity of Certificate Applicants is physically checked (physical,face to face) before Credoc Services CV against his/her Belgian identity card.

The Certificate Application for Qualified Certificates includes registration of the identity number and the validation date of the used identity card.

3.4.1 Revocation Request for Qualified Certificates

Revocation requests for Qualified Certificates can be submitted using the following procedures:

- Using the CARD STOP-procedure by telephoning with +32 472/83.02.20. This procedure can be used 24H/24H – 7d/7d
- During business hours (09:00-17:00), telephone with the REAL-Helpdesk, tel. +32 2/500.14.66.
- Authentification of the subscriber does take place by using Secret Shared Questions (3 on 5)

4.1.3.1 Certificate Applications for Qualified Certificates

Notaries will automatically receive application forms for Qualified Certificates. Notaries have to fill in and return these forms to Credoc Services CV. The application data is registered and the National Chamber of Notaries will verify applications.

4.3.2 Issuance of Qualified Certificates

At the moment of issuance, the SSCD with the Qualified Certificates is transferred to the Certificate Applicant.

Credoc Services CV will perform the following actions:

• Verification of the validity of the identity document of the Subject;

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- Physical identity check of the Certificate Applicant;
- Signing of the user agreement;
- Check of the Certificate Applicant's signature is on the user agreement.

Transfer of the activation data of the SSCD (PIN code) is done by a separately sent PIN-mail (registered mail with confirmation of receipt).

The PUK code is not transferred to the Certificate Applicant, but saved by Credoc Services CV. In case of a PIN code malfunctioning, the Certificate Applicant should contact the REAL-Helpdesk, tel. +32 02/500.14.66. Authentication of the subscriber takes place by using the Secret Shared Questions (3 on 5).

There is a procedure for renewing the PIN code and transferring it to the Certificate Applicant in a safe way.

The SSCD that contains the Qualified Certificate may also contain other certificates for other purposes.

4.6.2 Retention Period for Archive

Records associated with a Qualified Certificate are retained for the time of thirty (30) years, in accordance with the Belgian Law on Electronic Signatures.

5.1 Physical Controls

Credoc Services RA validations are performed in a tier 3 environment. The Certificate Application forms, the SSCD s and the signed User Agreements are saved in a tier 4 environment.

5.5.1. Additional Recording of Events for Qualified Certificates

Credoc Services CV will register identity numbers and the validation dates of identity documents; Credoc Services CV will not make copies of identity documents.

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