

Getronics PinkRoccade Certification Practice Statement



Version 2.2.3

Effective Date: February, 2008

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PinkRoccade Certification Practice Statement

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Revision date: January 2008

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Acknowledgement

Getronics PinkRoccade and VeriSign acknowledges the assistance of many reviewers of the document specializing in diverse areas of business, law, policy, and technology.



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1. Introduction

This document is the Getronics PinkRoccade Certification Practice Statement ("CPS"). It states the practices that Getronics PinkRoccade Certification Authorities ("Getronics PinkRoccade 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"). VeriSign, Inc. ("VeriSign") is the leading provider of trusted infrastructure services to web sites, enterprises, electronic commerce service providers, and individuals.

The VeriSign Trust Network ("VTN") is a global public key infrastructure ("PKI") that provides Digital

The VeriSign Trust NetworkSM ("VTN") is a global public key infrastructure ("PKI") that provides Digital Certificates ("Certificates") for both wired and wireless applications. The VTN accommodates a large, public, and widely distributed community of users with diverse needs for communications and information security. VeriSign is one of the service providers within the VTN, together with Getronics PinkRoccade and a global network of affiliates ("Affiliates") throughout the world.

The CP is the principal statement of policy governing the VTN. It establishes 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.²

In addition the European Directive Policies ("EDP") is a supplement to the "CP". The purpose of the EDP is to facilitate compliance with the Directive 1999/93/EC of the European Parliament and of the Council of 13 December 1999 on a Community framework for Electronic Signatures (the "Directive"). The Directive is intended to facilitate the use of Electronic Signatures and establishes requirements for "Qualified Certificates" that support certain types of Electronic Signatures. The EDP also supplements the two certificate policies set forth in the European Telecommunications Standards Institute ("ETSI") Technical Specification 101 456 Policy Requirements for Certification Authorities issuing Qualified Certificates (the "ETSI Policy Document").

The EDP defines two policies that supplement the CP, referred to in the EDP and here as "Directive Level 1" ("DL1") and "Directive Level 2" ("DL2"). DL1 and DL2 correspond, respectively, to the "QCP public" certificate policy and "QCP public + SSCD" certificate policy defined in the ETSI Policy Document.

Getronics PinkRoccade only issues DL2 Qualified Certificates. In the remainder of this document, DL2 certificates will be referred to as Qualified Certificates. Finally, the EDP supplements the certificate profile developed by ETSI (the "Qualified Certificate Profile"), which defines a technical format for Certificates that meet the requirements of the directive ("Qualified Certificates"). Certification Authorities issuing Qualified Certificates can use the Qualified Certificate Profile to assist them in issuing Certificates that comply with annex I and II of the Directive. A copy of the EDP can be found at https://www.verisign.com/repository.

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, Affiliate's Subdomain Participants).

Getronics PinkRoccade, VeriSign and each of the Affiliates have a CPS that governs its Subdomain within the VTN. While the CP sets forth requirements that VTN Participants must meet, this CPS describes how Getronics PinkRoccade meets these requirements within Getronics PinkRoccade's Subdomain of the VTN More specifically, this CPS describes the practices that Getronics PinkRoccade employs for:

securely managing the core infrastructure that supports the VTN, and

1 Internal cross references to CPS sections (i.e., in the form of "CPS §") are references to sections of this document.

2 The CP is published in electronic form within the VeriSign Repository at https://www.verisign.com/CP. VeriSign also makes the CP available in Adobe Acrobat pdf or Word format upon request sent to CP-requests@verisign.com. The CP is available in paper form from the VeriSign Trust Network Policy Management Authority ("PMA") upon requests sent to:



 issuing, managing, revoking, and renewing VTN Certificates within Getronics PinkRoccade's Subdomain of the VTN, in accordance with the requirements of the CP and its VTN Standards.³

Private CAs and hierarchies managed by Getronics PinkRoccade are outside the scope of this CPS.

1.1 Overview

The VTN includes three different classes of Certificates, Class 1, 2 and 3 and two different types of Qualified Certificates, one with and one without a Secure Signature Creation Device (SSCD). The CP describes how these three Classes correspond to specific classes of applications with common security requirements. The EDP describes the specific policies for Qualified Certificates.

Getronics PinkRoccade currently only offers Classes 2 and 3 Certificates and Qualified Certificates with SSCD within its Subdomain of the VTN. This CPS describes how Getronics PinkRoccade meets the CP and EDP requirements for each Class or Qualified Certificate types within its Subdomain. Thus, the CPS, as a single document, covers practices and procedures concerning the issuance and management of all Certificate Classes.

(a) Role of the Getronics PinkRoccade CPS and Other Practices Documents

The CPS describes, among other things:

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

The CPS, however, is only one of a set of documents relevant to Getronics PinkRoccade's 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 PinkRoccade 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 PinkRoccade concerning personnel, physical, telecommunications, logical, and cryptographic key management security,
 - The VeriSign Enterprise Security Guide, which describes detailed requirements for Managed PKI 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 PinkRoccade, such as the Getronics PinkRoccade
 Master Services Agreement and the Getronics PinkRoccade Relying Party and Subscriber
 agreements. These agreements would bind Customers, Subscribers, and Relying Parties of

³

³ Although VeriSign CAs certify the VTN CAs of Affiliates, the practices relating to an Affiliate are covered in the Affiliate's CPS



Getronics PinkRoccade. 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 PinkRoccade's Subdomain of the VTN.

Table 1 is a matrix showing various VTN and Getronics PinkRoccade practices documents, whether they are publicly available, and their locations. The list in Table 1 is not intended to be exhaustive. Note that documents not expressly made public are confidential to preserve the security of the VTN.

Documents	Status	Where Available to the Public
VeriSign VTN Policy Documents		
VeriSign Trust Network Certificate Policies	Public	VeriSign Repository. See
		https://www.verisign.com/CP
European Directive Policies	Public	VeriSign Repository. See
		https://www.verisign.com/repository/edsp
VeriSign VTN Ancillary Security and Ope	rational Docun	nents
VeriSign Security Policy	Confidential	N/A
Security and Audit Requirements Guide	Confidential	N/A
Key Ceremony Reference Guide	Confidential	N/A
Managed PKI Administrator's Handbook	Public	https://www.pki.getronicspinkroccade.nl/do
		<u>CS</u>
Managed PKI Key Management Service	Public	https://www.pki.getronicspinkroccade.nl/do
Administrator's Guide		<u>CS</u>
Enterprise Security Guide	Confidential	N/A
Getronics PinkRoccade Specific Docume	ents	
Getronics PinkRoccade Certification	Public	Getronics PinkRoccade Repository. See
Practice Statement		https://www.pki.getronicspinkroccade.nl/C
		<u>PS</u>
Getronics PinkRoccade Subscriber	Public	Getronics PinkRoccade Repository. See
Agreements and Relying Party		https://www.pki.getronicspinkroccade.nl/re
Agreements,		pository
Getronics PinkRoccade Subject	Public	Getronics PinkRoccade Repository. See
Obligations		https://www.pki.getronicspinkroccade.nl/re
		pository
(Global) Server ID Agreements	Public	Getronics PinkRoccade Repository. See
		https://www.pki.getronicspinkroccade.nl/re
		pository
Getronics PinkRoccade Privacy Statement	Public	Getronics PinkRoccade Repository. See
		https://www.pki.getronicspinkroccade.nl/re
Catronias Diali Dassada Casuritu Daliaiaa	Confidential	pository
Getronics PinkRoccade Security Policies	Confidential	N/A
Getronics PinkRoccade Master Services	Confidential	N/A
Agreement		

Table 1 – Availability of Practices Documents

(b) Background Concerning Digital Certificates and the VTN Hierarchy

This CPS assumes that the reader is generally familiar with Digital Signatures, PKIs, and the VTN. If not, Getronics PinkRoccade advises that the reader obtain some training in the use of public key cryptography and public key infrastructure as implemented in the VTN. General educational and training information is accessible from Getronics PinkRoccade at http://www.pki.getronicspinkroccade.nl/. Also, a brief summary of the roles of the different VTN Participants is set forth in the CP.



(c) Compliance with Applicable Standards

The practices specified in this CPS have been designed to meet or exceed the requirements of generally accepted and developing industry standards including the ICTSB / EESSI (a cooperation between ETSI, CEN/ISSS and CENELEC to specify requirements for compliance with the European Directive nr. 1999/93/EG for Electronic Signatures), the ANS X9.79:2001 PKI Practices and Policy Framework, and other industry standards related to the operation of CAs.

The structure of this CPS generally corresponds to the *Internet X.509 Public Key Infrastructure Certificate Policy and Certification Practices Framework*, known as RFC 2527 of the Internet Engineering Task Force, an Internet standards body. The RFC 2527 framework has become a de facto standard in the PKI industry. This CPS conforms to the RFC 2527 framework in order to make policy mapping and comparisons, assessment, and interoperation easier for persons using or considering using Getronics PinkRoccade Public Managed PKI services.

Getronics PinkRoccade has conformed the CPS to the RFC 2527 structure where possible, although slight variances in title and detail are necessary because of the complexity of Getronics PinkRoccade's business models. While Getronics PinkRoccade intends to continue the policy of adhering to RFC 2527 in the future, Getronics PinkRoccade reserves the right to vary from the RFC 2527 structure as needed, for example to enhance the quality of the CPS or its suitability to Getronics PinkRoccade Subdomain Participants. Moreover, the CPS structure may not correspond to future versions of RFC 2527.

1.1.1 Policy Overview

Getronics PinkRoccade offers two distinct classes of Certification services, Class 2 and 3, and Qualified Certificates, one with and one without a Secure Signature Creation Device (SSCD). Each type or class of Certificate provides specific functionality and security features and corresponds to a specific level of trust. Getronics PinkRoccade Subdomain Participants choose which type or Class of Certificates they need.

One of the functions of the CP and EDP is to describe the policies of Certificate Classes and types in detail.⁴ Nonetheless, this section summarizes the Certificate types and Classes offered by Getronics PinkRoccade within its Subdomain.

Class 2 Certificates offer a medium level of assurances in comparison with the other Classes, as set forward in the CP, and are individual Certificates. Class 2 validation procedures are based on a comparison of information submitted by the Certificate applicant against information in business records or databases or the database of a Getronics PinkRoccade-approved identity proofing service. These validation procedures add on assurances that the Subscriber's distinguished name is unique and unambiguous within the CA's Subdomain and that a certain e-mail address is associated with a public key. They can be used for digital signatures, encryption, and access control, including as proof of identity in medium-value transactions.

Class 3 Certificates provide a high level of assurances within Getronics PinkRoccade's Subdomain. Class 3 Certificates are issued to individuals, organizations, and Administrators for CAs and RAs. Class 3 individual Certificates may be used for digital signatures, encryption, and access control, including as proof of identity, in high-value transactions. Class 3 individual Certificates provide assurances of the identity of the Subscriber based on the personal (physical) presence of the Subscriber before a person that confirms the identity of the Subscriber using, at a minimum, a well-recognized form of government-issued identification and one other identification credential. Other Class 3 organizational Certificates are issued to devices to provide authentication; message, software, and content integrity; and confidentiality encryption. Class 3 organizational Certificates provide assurances of the identity of the Subscriber based on a confirmation that the Subscriber organization does in fact exist, that the organization has authorized the Certificate Application, and that the person submitting the Certificate Application on behalf of the Subscriber was authorized to do so. Class 3 organizational Certificates for servers (Secure Server IDs and Global Server IDs) also provide assurances that the Subscriber is entitled to use the domain name listed in the Certificate Application.

Class 3 Organizational ASB Certificates (This Service is currently not offered by Getronics PinkRoccade) are issued to an organization for use by a duly authorized representative, who uses the Certificate on behalf

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⁴ See CP § 1.1.1. and EDPS § 1.1.1



of the organization. Class 3 Organizational ASB Certificates provide an assurance that the person controlling the organization's private key is authorized to act on behalf of the organization in transactions entered into using the private key corresponding to the public key in the Certificate.

Qualified Certificates are specific certificate types, as defined in the EDP policies. Getronics PinkRoccade only issues Qualified Certificates with the QCP public + SSCD certificate policy, as specified in the ETSI Policy Document. Qualified Certificates are appropriate for digital signatures for applications in which the level of validity provided by Article 5(1) of the Directive is necessary or desired. That is, Qualified Certificates support the use of digital signatures that are equivalent in legal effectiveness to handwritten signatures. The SSCD that contains the Qualified Certificate, may also contain a class 2 encryption certificate, for encryption purposes.

The EDP policy for Qualified Certificates is distinct from the VTN's Classes 1, 2, and 3 within the meaning of the CP. Qualified Certificates do not correspond to a particular VTN Class. Nonetheless, Qualified are technically issued under the VeriSign Class 2 hierarchy. Qualified Certificates provide assurances of the identity of the Subscriber based on the direct or indirect personal (physical) presence of the Subscriber before a person that check's the Subscriber's identity documentation.

Qualified Certificates are issued only to individuals, on behalf of the organizations they work for.

Table 2 below summarizes the Certificate Classes offered by Getronics PinkRoccade in compliance with the CP and in case of Qualified Certificates with the EDP. It sets forth the properties of each Certificate class or type, based on whether they are issued to individuals or organizations, and whether they are offered on a Retail or Managed PKI basis, Authentication Service Bureau program, or issued to Administrators.

The specifications for Classes of Certificates in the CP, as summarized in this CPS, set forth the minimum level of assurances provided for each Class. For example, any Class 2 Certificate may be used for digital signatures, encryption and access control where proof of identity is not necessary, that is, for applications requiring a medium level of assurances. Qualified Certificates may only be used for digital signatures. Nonetheless, by contract or within specific environments (such as an intra-company environment), Getronics PinkRoccade Subdomain Participants are permitted to use validation procedures stronger than the ones set forth within the CP, or use Certificates for higher security applications than the ones described in CPS §§ 1.1.1, 1.3.4.1. Any such usage, however, is limited to such entities and subject to CPS §§ 2.2.1.2, 2.2.2.2, and these entities are solely responsible for any harm or liability caused by such usage.

Class	Issued to	Services Under	Confirmation of	Applications implemented or
Or		Which	Certificate Applicants'	contemplated by
Туре		Certificates are	Identity (CPS §§ 3.1.8.1,	Users (CPS § 1.3.4.1)
		Available⁵	3.1.9)	

⁵ Retail Certificates are Certificates issued by Getronics PinkRoccade, acting as CA, to organizations applying one by one to Getronics PinkRoccade on its web site. Managed PKI Certificates are based on a Certificate Application approved by a Getronics PinkRoccade Managed PKI Customer that enters into a Master Services Agreement with Getronics PinkRoccade for the issuance of a certain quantity of Certificates (see CP § 1.1.2.1.1). In addition to Retail and Managed PKI Certificates, VTN Certificates are issued , for Administrators of CAs and RAs, and through the Authentication Service Bureau. For more information about Authentication Service Bureau, see CP § 1.1.2.2.1. Administrator Certificates are issued to CA or RA Administrators to allow them to perform administrative functions on behalf of the CA or RA.



Class Or Type	Issued to	Services Under Which Certificates are Available ⁵	Confirmation of Certificate Applicants' Identity (CPS §§ 3.1.8.1, 3.1.9)	Applications implemented or contemplated by Users (CPS § 1.3.4.1)
Class 2	Individuals	Managed PKI	Checking internal documentation or databases to confirm identity of the Certificate Applicant (e.g., human resources documentation).	Enhancing the security of e-mail through confidentiality encryption, digital signatures for authentication, and web based access control. Applications requiring a medium level of assurances in comparison with the other Classes, such as some individual and intra- and inter-company e-mail, on-line subscriptions, account applications, and password replacement, including as proof of identity for medium-value transactions.
Class 2		Authentication Service Bureau	Name and email address search to ensure that the distinguished name is unique and unambiguous within the CA's subdomain, plus automated or Adminsitrator initiated enrollment information check with one or more third party databases or comparable sources	
Qualified Certificate	Individuals on behalf of their organizations	Retail and Managed PKI	Provide assurances of the identity of the Subscriber based on the direct or indirect personal (physical) presence of the Subscriber before a person that check's the Subscriber's identity documentation	To facilitate digital signatures for applications in which the level of validity provided by Article 5(1) of the Directive is necessary or desired. That is, Qualified Certificates support the use of digital signatures that are equivalent in legal effectiveness to handwritten signatures.
Class 3	Administrators and Automated Administration components	Managed PKI	Specialized confirmation procedures depending upon the type of Administrator. The identity of the Administrator and the organization utilizing the Administrator are confirmed. See also CPS § 5.2.3.	Administrator functions.



Class	Issued to	Services Under	Confirmation of	Applications implemented or
Or	155000 10	Which	Certificate Applicants'	contemplated by
Туре		Certificates are	Identity (CPS §§ 3.1.8.1,	Users (CPS § 1.3.4.1)
		Available ⁵	3.1.9)	
Class 3	Organizations	Retail	Check of third-party database or other documentation showing proof of right to use the organizational name. Validation check by telephone (or comparable procedure) to confirm information in, and authorization of, the Certificate Application. In the case of web server Certificates, confirmation that the Certificate Applicant has the right to use the domain name to	Server authentication, confidentiality encryption, and (when communicating with other servers) client authentication (Secure Server ID, Global Server ID, and Wireless Transport Layer Security Certificates); authentication, message integrity; and authentication and integrity of software and other content.
Class 3	Organizations	Authentication Service Bureau	be placed in the Certificate. Check of third-party database or other documentation showing the existence of the organization. Validation check by telephone (or comparable procedure) to organization to confirm employment and authority of organizational representative, and to the representative to confirm his or her Certificate Application. Letter confirming the Certificate Application is sent to the representative.	Enhancing the security of e-mail sent on behalf of an organization through confidentiality encryption, digital signatures for authentication, and web based access control. Applications requiring a high level of assurances in comparison with the other Classes, such as gaining access to a B2B extranet or conducting high-value transactions on a B2B exchange.
Class 3		Managed PKI for SSL and Managed PKI for SSL (Premium Edition)	Validation of Managed PKI For SSL or Managed PKI for SSL (Premium Edition) Customer as in Class 3 organizational Retail, plus validation of Administrator.	Server authentication, confidentiality encryption, and (when communicating with other properly enabled servers) client authentication (Secure Server ID and Global Server ID).

Table 2 - Certificate Properties Affecting Trust

1.1.2 Getronics PinkRoccade's Offering of VTN Services

The VTN offers a series of services to assist in the deployment, management, and uses of Certificates, as described fully in CP § 1.1.2. This section discusses which VTN services Getronics PinkRoccade offers in accordance with CP § 1.1.2. For more information about any of these programs, consult Getronics PinkRoccade's web site at http://www.pki.getronicspinkroccade.nl/. All of such services are subject to the specific agreements with Getronics PinkRoccade.

Table 3 summarizes Getronics PinkRoccade's offering of VTN services.



VTN Service	Explanation in or EDP	CP Getronics PinkRoccade's Offering
Certificate Distribution Serv	rices	•
VeriSign Managed PKI®	CP § 1.1.2.1.1	Getronics PinkRoccade Managed PKI services
		Getronics PinkRoccade Managed PKI Lite services
		Getronics PinkRoccade Managed PKI for SSL
		Getronics PinkRoccade Managed PKI for SSL (Premium Edition)
VeriSign Web Host Program	CP § 1.1.2.1.4	Getronics PinkRoccade Web Host services (ISP Program)
Value-Added Services		
VeriSign Authentication	CP § 1.1.2.2.1	Getronics PinkRoccade Outsourced Authentication services
Services		Authentication Service Bureau (currently not offered)
VeriSign Digital Notarization Service	CP § 1.1.2.2.2	Getronics PinkRoccade Digital Notarization services
Special Services		
VeriSign Managed PKI Key	CP § 1.1.2.3.2	Managed PKI Key Manager dual key systems
Manager Services		Managed PKI Key Manager single key systems
Qualified Certificates	EDP § 1.1	Getronics PinkRoccade Managed PKI for Qualified Certificates with SSCD
VeriSign Roaming Service	CP § 1.1.2.3.3	Getronics PinkRoccade Roaming Service in which the Enterprise holds the Enterprise Roaming Server
		Getronics PinkRoccade Roaming Service in which a trusted fourth party holds the Enterprise Roaming Server

Table 3 – Getronics PinkRoccade's Offering of VTN Services

1.1.2.1 Certificate Distribution Services

1.1.2.1.1 Getronics PinkRoccade Managed PKI Services

Getronics PinkRoccade Managed PKI Services is a fully integrated service that allows enterprise Customers of Getronics PinkRoccade to provide Certificates to individuals, such as employees, partners, suppliers, and customers, as well as devices, such as servers, routers, and firewalls. Managed PKI Services are more fully described in CP § 1.1.2.1.1. Within Getronics PinkRoccade's Subdomain, the security requirements for Managed PKI are set forth in the Enterprise Security Guide. Managed PKI is an outsourcing service. Customers of Getronics PinkRoccade obtaining Managed PKI offered by Getronics PinkRoccade ("Managed PKI Customers") fall into three categories.

First, some Managed PKI Customers provide client Certificates by becoming a Certification Authority within Getronics PinkRoccade's Subdomain of the VTN. Managed PKI Customers perform the RA "front-end" functions of approving or denying Certificate Applications, and initiating the revocation or renewal of Certificates using Managed PKI functionality or a separate Certificate Management System. RA functions are a subset of CA functions. At the same time, the Managed PKI Customer can leverage the secure PKI backbone of the VeriSign Trust Network by outsourcing all "back-end" Certificate issuing, management, revocation, and renewal functions to Getronics PinkRoccade.

The second category of Managed PKI Customers ("Managed PKI Lite Customers") uses Managed PKI Lite, which provides security for smaller enterprises and organizations than typical Managed PKI Customers. Managed PKI Lite Customers become Registration Authorities associated with a Getronics PinkRoccade CA, which is shared among Getronics PinkRoccade's Managed PKI Lite Customers of the specific class of Certificates. Managed PKI Lite Customers, like Managed PKI Customers, approve or deny Certificate Applications using Managed PKI functionality, and request the revocation or renewal of Certificates. As with Managed PKI Customers, Getronics PinkRoccade performs all the back-end Certificate issuance, management, revocation, and renewal functions, as with Managed PKI Customers.

The final categories of Managed PKI Customers approve Certificate Applications for server Certificates known as Secure Server IDs ("Managed PKI for SSL Customers") and for server Certificates known as Global



Server IDs ("Managed PKI for SSL (Premium Edition) Customers"). (For a discussion of the differences between Secure Server IDs and Global Server IDs, see CPS § 1.3.4.1.3.2.) Managed PKI for SSL Customers and Managed PKI for SSL (Premium Edition) Customers become Registration Authorities associated with a VeriSign CA, which is shared among all VTN (including Getronics PinkRoccade's) Managed PKI for SSL Customers or Managed PKI for SSL (Premium Edition) Customers. Managed PKI for SSL Customers and Managed PKI for SSL (Premium Edition) Customers, as with other Managed PKI Customers, approve or deny Certificate Applications using Managed PKI functionality, and request the revocation or renewal of Certificates. VeriSign performs all the back-end Certificate issuance, management, revocation, and renewal functions.

Getronics PinkRoccade's Managed PKI Customers and Managed PKI Lite Customers are not permitted to approve the Certificate Applications of anyone other than one of their own Affiliated Individuals, except as noted below. Managed PKI Customers may not approve Certificate Applications for VTN Certificates issued to the general public. The Authentication Service Bureau, however, provides one solution for organizations seeking to obtain Certificates for unaffiliated individuals and organizational representatives. See CPS § 1.1.2.2.1.

Getronics PinkRoccade's Managed PKI Customers are permitted to approve the Certificate Applications for Qualified Certificates of individuals only if they fulfill all requirements mentioned in applicable Law on Electronic Signatures.

A Managed PKI for SSL Customer or Managed PKI for SSL (Premium Edition) Customer may only approve Certificate Applications for servers within their own organizations. Managed PKI Customers and Managed PKI for SSL (Premium Edition) Customers are not permitted to approve the Class 3 Certificate Applications of any servers outside their respective organizations, and may not issue Certificates to the general public.

1.1.2.1.2 VeriSign Affiliate Program

Getronics PinkRoccade is a "Processing Center," as described in CP § 1.1.2.1.2, which means Getronics PinkRoccade has established a secure facility housing, among other things, CA systems, including the cryptographic modules holding the private keys used for the issuance of Certificates. Getronics PinkRoccade acts as a CA in the VTN and performs all Certificate lifecycle services of issuing, managing, revoking, and renewing Certificates. It also provides CA key management and Certificate lifecycle services on behalf of its Managed PKI Customers. Getronics PinkRoccade offers Certificates in all lines of business, Web Site (Secure Server IDs and Global Server IDs), and Enterprise (providing Managed PKI services), as described in CP § 1.1.2.1.2.

1.1.2.1.3 The Web Host Program (ISP Program)

Getronics PinkRoccade's Web Host Program, described more fully in CP § 1.1.2.1.4, permits entities acting as a host ("Web Host") to the web sites of their clients to manage lifecycle processes for Retail Secure Server IDs and Global Server IDs on behalf of their clients. The Web Host Program allows Web Hosts to enroll for Secure Server IDs and Global Server IDs on behalf of end-user Subscribers who are customers of the Web Hosts. Although the Web Host assists the enrollment process (see CP § 4.1.1), Web Hosts do not perform validation functions, but instead Getronics PinkRoccade performs these validation functions. Also, it is the Web Hosts' customers that obtain Secure Server IDs and Global Server IDs as the actual Subscribers and are ultimately responsible for Subscriber obligations under the appropriate Subscriber Agreement. Web Hosts have an obligation to provide the applicable Subscriber Agreements to their clients to inform them of their obligations.

1.1.2.2 Value-Added Certification Services

1.1.2.2.1 Authentication Services

Getronics PinkRoccade offers organizations outsourced authentication services and Authentication Service Bureau services (currently not offered), as more fully described in CP § 1.1.2.2.1. With outsourced authentication services, Getronics PinkRoccade confirms the identity of Certificate Applicants on behalf of Customers. These Managed PKI Customers may wish to outsource the authentication of all or any portion of their user base of Subscribers. The provision of outsourced authentication services is subject to an agreement with Getronics PinkRoccade.



To the extent Getronics PinkRoccade conducts certain authentication activities for the Managed PKI Customer, then Getronics PinkRoccade would be obligated to perform the obligations in this CPS of the Managed PKI Customer on its behalf. Performing such obligations, however, does not relieve the Managed PKI Customer of obligations in the CPS to the extent the Managed PKI Customer retains authentication responsibilities for portions of its user base or other functions, such as initiating revocation requests.

The Getronics PinkRoccade Authentication Service Bureau program (currently not offered) enables Getronics PinkRoccade to confirm the identity of end-user Subscribers on behalf of an organization. Getronics PinkRoccade provides this service to organizations such as the operators of a B2B or B2C extranet or marketplace entering into an appropriate agreement with Getronics PinkRoccade for these services ("ASB Customers"). Under the Authentication Service Bureau program, Getronics PinkRoccade offers Class 2 individual Certificates ("Class 2 Individual ASB Certificates") and Class 3 organizational Certificates used by authorized representatives of organizations interacting with the ASB Customer ("Class 3 Organizational ASB Certificates").

ASB Customers enter into an agreement with Getronics PinkRoccade to become a CA. This CA issues cobranded Certificates indicating that the ASB Customer is the CA. The ASB Customer, however, outsources most CA functions, both front-end and back-end, to Getronics PinkRoccade. The one CA function that the ASB Customer retains is the obligation to initiate revocation of Certificates issued by the ASB Customer's CA in accordance with CP § 4.4.1.1, although Getronics PinkRoccade can also process revocation requests communicated directly to them. Except for the ASB Customer's obligation to initiate revocation, Getronics PinkRoccade performs all identity confirmation and Certificate lifecycle services on behalf of the ASB Customer. Where providing Authentication Service Bureau services, Getronics PinkRoccade acts as RA for the ASB Customer.

From time to time, Getronics PinkRoccade may subcontract with other entities to provide outsourced authentication services and Authentication Service Bureau services. When Getronics PinkRoccade subcontracts for these services, its contracts with these subcontractors require the subcontractors to meet all the security and other requirements Getronics PinkRoccade would need to meet in order to provide such services under this CPS.

1.1.2.2.2 Getronics PinkRoccadeDigital Notarization Service

Getronics PinkRoccade offers the "Digital Notarization Service" as set forth in CP § 1.1.2.2.2. Getronics PinkRoccade's offering of these services is subject to terms of a contract between Getronics PinkRoccade and a Customer of the VeriSign Digital Notarization Service offered by Getronics PinkRoccade.

1.1.2.3 Special Services

1.1.2.3.1 Getronics PinkRoccade Managed PKI Key Manager Services

Managed PKI Key Manager permits Managed PKI Customers to generate key pairs on behalf of Subscribers whose Certificate Applications they approve. It also permits Managed PKI Customers to transmit to Subscribers the private keys of such Subscribers in a secure fashion, store a retained backup copy of the Subscribers' private keys in a secure fashion, and recover private keys when needed. Managed PKI Key Manager facilitates both a single key pair system and a dual key pair system. Single key pair systems generate keys that an end-user Subscriber uses for both digital signature and confidentiality functions. The Subscriber obtains one Certificate for both functions. Dual key pair systems, by contrast, generate a key pair that the end-user Subscriber uses for confidentiality. The Subscriber, however, generates his or her own key pair for digital signature functions. In a dual key pair system, the Subscriber receives two Certificates, one for each public key. The Managed PKI Key Manager software operates in conjunction with a Getronics PinkRoccade Key Recovery. Managed PKI Key Manager is described in detail in CP § 1.1.2.3.2.

Managed PKI Key Manager software stores the backup copy of private keys at the Managed PKI Customer's site in an encrypted form. Each Subscriber's private key is individually encrypted with its unique key encryption key. A key recovery block ("KRB") is generated from this encryption key using key recovery technology, then the encryption key is deleted. Both the Subscriber's encrypted private key and the KRB are stored in the Key Manager database on the Managed PKI Customer's systems.

The Managed PKI Key Manager software operates in conjunction with a Getronics PinkRoccade Key Recovery Service. Recovery of a private key requires Managed PKI Key Manager, under the Managed PKI



Customer's administrator's direction, to retrieve the KRB from the database and send it online to the Key Recovery Service operated out Getronics PinkRoccade's secure data center. Only Getronics PinkRoccade holds the private key that can unlock the KRB and recover the embedded encryption key. The recovery request to Getronics PinkRoccade will include enterprise emergency recovery codes needed to authorize the unlocking of the KRB. If a valid KRB is delivered, and the correct emergency recovery codes are supplied, the Key Recovery Service returns the encryption key to the Managed PKI Key Manager software, allowing it to recover the corresponding user private key.

1.1.2.3.2 Getronics PinkRoccade Roaming Service

The "Getronics PinkRoccade Roaming Service" as presented to Getronics PinkRoccade's Managed PKI Customers, enables a Subscriber to digitally sign critical transactions, such as stock trades, and obtain access to confidential information, without being bound to a single client terminal on which his or her private key resides. Getronics PinkRoccade's roaming technology permits Subscribers using the service ("Roaming Subscribers") to securely download their private keys and conduct private key operations on different client terminals. The Roaming Subscriber can use his or her private key from any client terminal.

The Getronics PinkRoccade Roaming Service encrypts Roaming Subscribers' private keys with symmetric keys that are split and stored on two servers in two physical locations to protect against attacks on a single credential server. Specifically, components of these symmetric keys are split between a server residing at the site of the Managed PKI Customer ("Enterprise Roaming Server") (or a trusted fourth party in lieu of the Managed PKI Customer) and another server at Getronics PinkRoccade ("Getronics PinkRoccade Roaming Server"). The private key itself is stored in encrypted form on the Enterprise Roaming Server. The Roaming Subscriber authenticates himself or herself to these servers using a password, and assuming the password is successfully provided to the servers, the encrypted private key and the components of the symmetric key needed to decrypt the Subscriber's private key are downloaded to the client terminal. At the client terminal, the symmetric key is reconstituted, the Subscriber's private key is decrypted, and the private key is then available for use during a single session. Following the session, the private key on the client terminal is deleted such that it is unrecoverable.

1.2 Identification

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 PinkRoccade has also assigned an object identifier value to this CPS: {joint-iso-itu-t(2) country(16) nederland(528) nederlandse-organisatie(1) Getronics PinkRoccade(1005) pki(1) policies(1) Getronics PinkRoccade-cps(1) cps-v2.0(1)} 2.16.528.1.1005.1.1.1.1

1.2.1 Identification for Qualified Certificates

VeriSign, acting as a policy-defining authority, has assigned the certificate policy within the EDP for Qualified Certificates (DL2) an object identifier value extension set forth below. The object identifier is included in Qualified Certificates issued to the public, requiring use of secure signature creation device. The object identifier value used for Qualified Certificate Policy is:

Directive Level 2: VeriSign/pki/policies/EDP/dl2 (2.16.840.1.113733.1.7.44.2).

1.3 Community and Applicability

The community governed by this CPS is Getronics PinkRoccade's Subdomain within the VeriSign Trust Network. The VTN is a PKI that accommodates a worldwide, large, public, and widely distributed community users with diverse needs for communications and information security. Getronics PinkRoccade's Subdomain of the VTN is the portion of the VTN governed by this CPS, and the CPS is the document that governs Getronics PinkRoccade's Subdomain of the VTN. Most of the Getronics PinkRoccade Subdomain Participants are located in the The Netherlands or geographical region it services.

1.3.1 Certification Authorities

The term Certification Authority is an umbrella term that refers to all entities issuing Certificates within the VTN. The term "CA" encompasses a subcategory of issuers called Primary Certification Authorities. PCAs act as roots of three domains, one for each class of Certificate. Each PCA is a VeriSign entity. There are currently three generations of VeriSign PCAs (G1, G2 and G3) for each class of Certificate. Subordinate to the PCAs are Certification Authorities that issue Certificates to end-user Subscribers or other CAs. CAs within Getronics



PinkRoccade's Subdomain fall into three categories: (1) Getronics PinkRoccade itself, (2) Managed PKI Customers, and (3) ASB Customers. VeriSign is a Processing Center that hosts all VTN PCAs, Getronics PinkRoccade is a Processing Center that hosts all if its own CAs, and certain other CAs in its secure CA facilities.

Getronics PinkRoccade CAs perform all CA functions (including RA functions), except for the CAs that issue Certificates following approval of Certificate Applications by Managed PKI Lite Customers, Managed PKI for SSL Customers, and Managed PKI for SSL (Premium Edition) Customers. Managed PKI Customers become CAs within the VTN. Managed PKI Customers outsource back-end functions to a Processing Center, while retaining RA functions for themselves. ASB Customers contract with Getronics PinkRoccade to become a CA, which issues Certificates naming the ASB Customer as the CA. ASB Customers, however, outsource to Getronics PinkRoccade all front-end and back-end functions, except for the obligation to initiate revocation of Certificates issued by the ASB Customer's CA in accordance with CPS § 4.4.1.1.

As discussed in CP § 1.3.1, the RSA Secure Server Certification Authority, which VeriSign acquired from RSA Security Inc., issues Secure Server IDs, which are deemed to be Class 3 Organizational Certificates. VeriSign has approved and designated the RSA Secure Server Certification Authority as a Class 3 CA within Getronics PinkRoccade's Subdomain of the VTN. The Certificates it issues, Secure Server IDs, are considered to provide assurances of trustworthiness comparable to other Class 3 organizational Certificates.

1.3.2 Registration Authorities

Within Getronics PinkRoccade's Subdomain of the VTN, RAs fall into four categories: (1) Managed PKI Lite Customers, (2) Managed PKI for SSL Customers, (3) Managed PKI for SSL (Premium Edition) Customers, and (4) Getronics PinkRoccade, in its role as ASB Provider. Other types of RAs are permitted with Getronics PinkRoccade's advance written consent and if these RAs meet the obligations placed on Managed PKI Customers, subject to any modifications necessary to account for any differences between Managed PKI technology and the technology used by these RAs and the terms of an appropriate agreement. RAs assist a CA by performing front-end functions of confirming identity, approving or denying Certificate Applications, requesting revocation of Certificates, and approving or denying renewal requests.

Managed PKI Lite Customers become RAs assisting a Getronics PinkRoccade CA to issue client Certificates to end-user Subscribers. Similarly, Managed PKI for SSL Customers and Managed PKI for SSL (Premium Edition) Customers become RAs using Managed PKI that assist the RSA Secure Server CA, the VeriSign International Server CA - Class 3, or similar Getronics PinkRoccade CA to issue Secure Server IDs or Global Server IDs. Getronics PinkRoccade, as ASB Provider, offers Authentication Service Bureau services to its ASB Customers. Getronics PinkRoccade, as ASB Provider, performs both RA front-end functions and backend functions for ASB Customer CAs.

Where Registration Authorities have relevant deviate practices these are described in a Registration Authority specific annex. At this moment the practices of Credoc Services CA are described in annex A.

1.3.3 End Entities

Table 4 shows the types of Subscribers for each Class and type of Certificate offered within Getronics PinkRoccade's Subdomain of the VTN.

Class	Issued to	Services Under	Confirmation of	APPLICATIONS
Or		Which	Certificate Applicants'	IMPLEMENTED OR
Type		Certificates are	Identity (CPS §§ 3.1.8.1,	CONTEMPLATED BY
		Available ⁶	3.1.9)	Users (CPS § 1.3.4.1)

⁶ Retail Certificates are Certificates issued by PinkRoccade, acting as CA, to organizations applying one by one to PinkRoccade on its web site. Managed PKI Certificates are based on a Certificate Application approved by a PinkRoccade Managed PKI Customer that enters into a Master Services Agreement with PinkRoccade for the issuance of a certain quantity of Certificates (see CP § 1.1.2.1.1). In addition to Retail and Managed PKI Certificates, VTN Certificates are issued, for Administrators of CAs and RAs, and through the Authentication Service Bureau. For more information about Authentication Service Bureau, see CP § 1.1.2.2.1. Administrator Certificates are issued to CA or RA Administrators to allow them to perform administrative functions on behalf of the CA or RA.



Class Or Type	Issued to	Services Under Which Certificates are Available ⁶	Confirmation of Certificate Applicants' Identity (CPS §§ 3.1.8.1, 3.1.9)	APPLICATIONS IMPLEMENTED OR CONTEMPLATED BY Users (CPS § 1.3.4.1)
Class 2	Individuals	Managed PKI	Checking internal documentation or databases to confirm identity of the Certificate Applicant (e.g., human resources documentation).	Enhancing the security of e-mail through confidentiality encryption, digital signatures for authentication, and web based access control. Applications requiring a medium level of assurances in comparison with the other Classes, such as some individual and intra- and inter-company e-mail, online subscriptions, account applications, and password replacement, including as proof of identity for medium-value transactions.
Class 2		Authentication Service Bureau	Name and email address search to ensure that the distinguished name is unique and unambiguous within the CA's subdomain, plus automated or Adminsitrator initiated enrollment information check with one or more third party databases or comparable sources	
Qualified Certificate	Individuals	Retail and Managed PKI	Provide assurances of the identity of the Subscriber based on the direct or indirect personal (physical) presence of the Subscriber before a person that check's the Subscriber's identity documentation	To facilitate digital signatures for applications in which the level of validity provided by Article 5(1) of the Directive is necessary or desired. That is, Qualified Certificates support the use of digital signatures that are equivalent in legal effectiveness to handwritten signatures.
Class 3	Administrator s and Automated Administration components	Managed PKI	Specialized confirmation procedures depending upon the type of Administrator. The identity of the Administrator and the organization utilizing the Administrator are confirmed. See also CPS § 5.2.3.	Administrator functions.



Class Or Type	Issued to	Services Under Which Certificates are Available ⁶	Confirmation of Certificate Applicants' Identity (CPS §§ 3.1.8.1, 3.1.9)	APPLICATIONS IMPLEMENTED OR CONTEMPLATED BY Users (CPS § 1.3.4.1)
Class 3	Organizations	Retail	Check of third-party database or other documentation showing proof of right to use the organizational name. Validation check by telephone (or comparable procedure) to confirm information in, and authorization of, the Certificate Application. In the case of web server Certificates, confirmation that the Certificate Applicant has the right to use the domain name to be placed in the Certificate.	Server authentication, confidentiality encryption, and (when communicating with other servers) client authentication (Secure Server ID, Global Server ID, and Wireless Transport Layer Security Certificates); authentication, message integrity; and authentication and integrity of software and other content.
Class 3	Organizations	Authentication Service Bureau	Check of third-party database or other documentation showing the existence of the organization. Validation check by telephone (or comparable procedure) to organization to confirm employment and authority of organizational representative, and to the representative to confirm his or her Certificate Application. Letter confirming the Certificate Application is sent to the representative.	Enhancing the security of e-mail sent on behalf of an organization through confidentiality encryption, digital signatures for authentication, and web based access control. Applications requiring a high level of assurances in comparison with the other Classes, such as gaining access to a B2B extranet or conducting high-value transactions on a B2B exchange.
Class 3		Managed PKI for SSL and Managed PKI for SSL (Premium Edition)	Validation of Managed PKI For SSL or Managed PKI for SSL (Premium Edition) Customer as in Class 3 organizational Retail, plus validation of Administrator.	Server authentication, confidentiality encryption, and (when communicating with other properly enabled servers) client authentication (Secure Server ID and Global Server ID).

Table 4 – Types of Subscribers Within Getronics PinkRoccade's Subdomain of the VTN

CAs are themselves, as a technical matter, Subscribers of Certificates, either as a PCA issuing a self-signed Certificate to itself, or as a CA issued a Certificate by a superior CA. References to "Subscribers" in this CPS, however, apply only to end-user Subscribers.

1.3.4 Applicability

This CPS applies to all Getronics PinkRoccade Subdomain Participants, including Getronics PinkRoccade, Customers, Resellers, Subscribers, and Relying Parties. This CPS applies to Getronics PinkRoccade's Subdomain of the VTN and Getronics PinkRoccade's core infrastructure supporting the VTN. This CPS describes the practices governing the use of Certificates within Getronics PinkRoccade's Subdomain in each



of Classes 2 and 3 and Qualified Certificates, as described in the CP and EDP. Each Class of Certificate is generally appropriate for use with the applications set forth in CP § 1.3.4.1 and CPS § 1.1.1 (Table 2). Nonetheless, by contract or within specific environments (such as an intra-company environment), VTN Participants are permitted to use Certificates for higher security applications than the ones described in CPS §§ 1.1.1, 1.3.4.1. Any such usage, however, is limited to such entities and subject to CPS §§ 2.2.1.2, 2.2.2, and these entities are solely responsible for any harm or liability caused by such usage.

1.3.4.1 Suitable Applications

For suitable applications, see CP § 1.3.4.1, EDP and CPS § 1.1.1 (Table 2). These listings, however, are not intended to be exhaustive. Individual Certificates and some organizational Certificates permit Relying Parties to verify digital signatures. Getronics PinkRoccade Subdomain Participants acknowledge and agree, to the extent permitted by applicable law, that where a transaction is required to be in writing, a message or other record bearing a digital signature verifiable with reference to a VTN Certificate is valid, effective, and enforceable to an extent no less than had the same message or record been written and signed on paper. Subject to applicable law, a digital signature or transaction entered into with reference to a VTN Certificate shall be effective regardless of the geographic location where the VTN Certificate is issued or the digital signature created or used, and regardless of the geographic location of the place of business of the CA or Subscriber.

1.3.4.1.1 Suitable Applications for Qualified Certificates

Qualified Certificates should only be used to support digital signatures where the applications making use of the digital signatures require Advanced Electronic Signatures that "satisfy the requirements of a signature in relation to data in electronic form in the same manner as a hand-written signature satisfies those requirements in relation to paper based data" in accordance with article 5(1) of the Directive. The uses for Qualified Certificates correspond to the uses for Certificates identified in the QCP public + SSCD certificate policy in the ETSI Policy Document.

1.3.4.2 Restricted Applications

In general, VTN Certificates are general-purpose Certificates. VTN Certificates may be used globally and to interoperate with diverse Relying Parties worldwide. Usage of VTN Certificates is not generally restricted to a specific business environment, such as a pilot, financial services system, vertical market environment, or virtual marketplace. Nonetheless, such use is permitted and Customers using Certificates within their own environment may place further restrictions on Certificate use within these environments. Getronics PinkRoccade and other Getronics PinkRoccade Subdomain Participants, however, are not responsible for monitoring or enforcing any such restrictions in these environments.

Nonetheless, certain VTN Certificates are limited in function. For example, CA Certificates may not be used for any functions except CA functions. Moreover, client Certificates are intended for client applications and may not be used as server or organizational Certificates. In addition, Class 3 organizational Certificates issued to devices are limited in function to web servers or web traffic management devices (in the case of Secure Server IDs and Global Server Ids). Further, Administrator Certificates may only be used to perform Administrator functions.

Also, with respect to X.509 Version 3 VTN Certificates, the key usage extension is intended to limit the technical purposes for which a private key corresponding to the public key in a Certificate may be used within the VTN. See CP § 6.1.9. In addition, end-user Subscriber Certificates may not be used as CA Certificates. This restriction is confirmed by the absence of a Basic Constraints extension. See CP § 7.1.2.4. The effectiveness of extension-based limitations, however, is subject to the operation of software manufactured or controlled by entities other than Getronics PinkRoccade.

More generally, Certificates may be used only to the extent use is consistent with applicable law, and in particular may be used only to the extent permitted by applicable export or import laws.

1.3.4.2.1 Additional Qualified Certificate Restricted Applications

In addition to the restrictions in CPS § 1.3.4.2, Subscribers of Qualified Certificates solely create digital signatures only in connection with the use of an SSCD.

1.3.4.3 Prohibited Applications



VTN 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.

1.4 Contact Details

1.4.1 Specification Administration Organization

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

Getronics PinkRoccade Nederland B.V. Attn: Business & Security Services PMA Fauststraat 1 P.O. Box 9105 7300 HN Apeldoorn The Netherlands

Phone: +31 (0) 20 570 4511

1.4.2 Contact Person

Address inquiries about the CPS to the address identified in CPS § 1.4.1

1.4.3 Person Determining CPS Suitability for the Policy

The organization identified in CPS § 1.4.1 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 under the CP, EDP and this CPS.



2. General Provisions

2.1 Obligations

2.1.1 CA Obligations

CAs perform the specific obligations appearing throughout this CPS. The provisions of the CPS specify obligations of each category of CAs: Getronics PinkRoccade (in its role as Processing), Managed PKI Customers, and ASB Customers.

In addition, Getronics PinkRoccade uses commercially reasonable efforts to ensure that Subscriber Agreements and Relying Party Agreements bind Subscribers and Relying Parties within Getronics PinkRoccade's Subdomain. Examples of such efforts include, but are not limited to, requiring assent to a Subscriber Agreement as a condition of enrollment or requiring assent to a Relying Party Agreement as a condition of receiving Certificate status information. Similarly, Resellers (where required by contract) must use Subscriber Agreements and Relying Party Agreements in accordance with the requirements imposed by Getronics PinkRoccade.

Managed PKI Customers are permitted to use Subscriber Agreements specific to them, although not required to do so. Managed PKI Customers using Subscriber Agreements must include the provisions required by CP §§ 2.2-2.4. If a Managed PKI Customer, or Reseller does not use its own Subscriber Agreement, the Subscriber Agreement of Getronics PinkRoccade shall apply. If a Reseller has no Relying Party Agreement, the Relying Party Agreement of Getronics PinkRoccade shall apply.

2.1.1.1 Additional Obligations for CAs issuing Qualified Certificates

CAs also meet the CA requirements set forth in the EDP.

Subscriber Agreements are in writing and in readily understandable language.

Furthermore, Subscriber Agreements contain the following terms required by the Directive and Dutch Law and the ETSI Policy Document:

- The applicable policy including a clear statement as to whether the use of an SSCD is required or not,
- An acknowledgement that the information contained in the Certificate is correct unless the Subscriber informs the applicable CA or RA otherwise,
- Applicable limitations on use, which at a minimum include the limitations in § 1.3.4.1.1,
- The obligations of Subscribers set forth in this section and assent to perform such obligations,
- Information on how to validate a Certificate, including a requirement to check the status of a
 Certificate, and the conditions upon which reliance on a certificate is deemed "reasonable," which
 apply to situations where Subscribers also act as Relying Parties,
- Applicable limitations of liability,
- Consent to the publication of the Certificate issued to the Subscriber and its availability for retrieval by Relying Parties,
- Consent to the retention of records used in enrollment, the provision of an SSCD to the Subscriber, revocation information, and the transition of such information to third parties in the event of CA termination.
- The records retention period for Certificate Application information,
- The records retention period for CA event logs,
- Applicable dispute resolution procedures,
- Governing law, and
- Whether the CA has been certified to be conformant with the Qualified Certificate policies

Subscriber Agreements are communicated to Certificate Applicants before they submit enrollment information and with means that preserve the integrity of the Subscriber Agreements. Prior to the issuance of a new Certificate upon renewal or rekeying, any changes to Subscriber Agreements implemented since the time of the last enrollment or re-enrollment are communicated to the Subscriber with means that preserve the integrity of the Subscriber Agreements.

Relying Party Agreements are in writing and in readily understandable language.



Furthermore, Relying Party Agreements contain the following terms required by the ETSI Policy Document:

- The applicable policy including a clear statement as to whether Subscribers are required to use an SSCD or not,
- Applicable limitations on use, which at a minimum include the limitations in CPS § 1.3.4.1.1.
- Information on how to validate a Certificate, including a requirement to check the status of a Certificate, and the conditions upon which reliance on a certificate is deemed "reasonable,"
- Applicable limitations of liability,
- The records retention period for Certificate Application information,
- The records retention period for CA event logs,
- Applicable dispute resolution procedures,
- · Governing law, and
- Whether the CA has been certified to be conformant with the Qualified Certificate policies.

2.1.2 RA Obligations

RAs assist a Processing Center or Service Center CA by performing validation functions, approving or rejecting Certificate Applications, requesting revocation of Certificates, and approving renewal requests. The provisions of the CPS specify obligations of each category of RAs: Managed PKI Lite Customers, Managed PKI for SSL Customers, Managed PKI for SSL (Premium Edition) Customers, and Getronics PinkRoccade in its role as ASB Provider.

Also, Getronics PinkRoccade, as ASB Provider, ensures that Subscriber Agreements and Relying Party Agreements bind Subscribers and Relying Parties within its Subdomains in accordance with CPS § 2.1.1. Other RAs have no such obligation.

2.1.2.1 Additional RA Obligations for Qualified Certificates

To the extent that RAs performing RA functions for Qualified Certificates, they meet the requirements of CPS and the EDP.

2.1.3 Subscriber Obligations

Subscriber obligations in the CP apply to Subscribers within Getronics PinkRoccade's Subdomain, through this CPS, by way of Subscriber Agreements approved by VeriSign. Certain Subscriber Agreements in force within Getronics PinkRoccade's Subdomain appear at: http://www.pki.getronicspinkroccade.nl/repository.

Within Getronics PinkRoccade's Subdomain, Subscriber Agreements require that Certificate Applicants provide complete and accurate information on their Certificate Applications and manifest assent to the applicable Subscriber Agreement as a condition of obtaining a Certificate.

Subscriber Agreements apply the specific obligations appearing in the CP and CPS to Subscribers in Getronics PinkRoccade's Subdomain. Subscriber Agreements require Subscribers to use their Certificates in accordance with CPS § 1.3.4. They also require Subscribers to protect their private keys in accordance with CPS §§ 6.1-6.2, 6.4. Under these Subscriber Agreements, if a Subscriber discovers or has reason to believe there has been a Compromise of the Subscriber's Private Key or the activation data protecting such Private Key, or the information within the Certificate is incorrect or has changed, that the Subscriber must promptly:

- Notify the entity that approved the Subscriber's Certificate Application, either a CA or an RA, in accordance with CPS § 4.4.1.1 and request revocation of the Certificate in accordance with CPS §§ 3.4, 4.4.3.1, and
- Notify any person that may reasonably be expected by the Subscriber to rely on or to provide services in support of the Subscriber's Certificate or a digital signature verifiable with reference to the Subscriber's Certificate.

Subscriber Agreements require Subscribers to cease use of their private keys at the end of their key usage periods under CPS § 6.3.2.

Subscriber Agreements state that Subscribers shall not monitor, interfere with, or reverse engineer the technical implementation of the VTN, except upon prior written approval from VeriSign, and shall not otherwise intentionally compromise the security of the VTN.



2.1.3.1 Additional Subscriber Obligation for Qualified Certificates

A Subscriber may only use the private key corresponding to the public key within a Qualified Certificate (with which an SSCD must be used) to make a digital signature only if the private key was generated in the Subscriber's SSCD and the digital signature is made in connection with the use of the SSCD.

2.1.4 Relying Party Obligations

Relying Party obligations in the CP apply to Relying Parties within Getronics PinkRoccade's Subdomain, through this CPS, by way of Getronics PinkRoccade's Relying Party Agreements. Relying Party Agreements in force within Getronics PinkRoccade's Subdomain appear at: https://www.pki.getronicspinkroccade.nl/repository.

Relying Party Agreements within Getronics PinkRoccade's Subdomain state that before any act of reliance, Relying Parties must 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. They state that Getronics PinkRoccade, CAs, and RAs are not responsible for assessing the appropriateness of the use of a Certificate. Relying Party Agreements specifically state that Relying Parties must not use Certificates beyond the limitations in CPS § 1.3.4.2 and for purposes prohibited in CPS § 1.3.4.3.

Relying Party Agreements further state that Relying Parties must 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. Under these Agreements, Relying Parties must not rely on a Certificate unless these verification procedures are successful.

Relying Party Agreements also require Relying Parties to check the status of a Certificate on which they wish to rely, as well as all the Certificates in its Certificate Chain in accordance with CPS §§ 4.4.10, 4.4.12. If any of the Certificates in the Certificate Chain have been revoked, according to Relying Party Agreements, the Relying Party must not rely on the end-user Subscriber Certificate or other revoked Certificate in the Certificate Chain.

Finally, Relying Party Agreements state that assent to their terms is a condition of using or otherwise relying on Certificates. Relying Parties that are also Subscribers agree to be bound by Relying Party terms under this section, disclaimers of warranty, and limitations of liability when they agree to a Subscriber Agreement.

Relying Party Agreements state that if all of the checks described above are successful, the Relying Party is entitled to rely on the Certificate, provided that reliance upon the Certificate is 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.

Relying Party Agreements state that Relying Parties must not monitor, interfere with, or reverse engineer the technical implementation of the VTN, except upon prior written approval from VeriSign, and shall not otherwise intentionally compromise the security of the VTN.

2.1.5 Repository Obligations

Getronics PinkRoccade is responsible for the repository functions for its own CAs and the CAs of its Managed PKI Customers, and ASB Customers. Getronics PinkRoccade publish Certificates they issue in the repository set forth in Table 5 in accordance with CPS § 2.6.

CA	Entity Issuing the Certificate on Behalf of the CA	Applicable Repository
All Getronics PinkRoccade Cas	Getronics PinkRoccade	Getronics PinkRoccade Repository
Managed PKI Customer or Getronics PinkRoccade ASB Customer	Getronics PinkRoccade	Getronics PinkRoccade Repository

Table 5 – Applicable Repositories By Type of CA



Upon revocation of an end-user Subscriber's Certificate, Getronics PinkRoccade publishes notice of such revocation in the repository required by Table 5. Getronics PinkRoccade issues CRLs for its own CAs, Managed PKI Customers and ASB Customers within its Subdomain, pursuant to CPS §§ 2.6, 4.4.9, 4.4.11. In addition, for Managed PKI Customers who have contracted for Online Certificate Status Protocol ("OCSP") services, Getronics PinkRoccade provides OCSP services pursuant to CPS §§ 2.6, 4.4.9, 4.4.11.

2.2 Liability

2.2.1 Certification Authority Liability

The warranties, disclaimers of warranty, and limitations of liability among Getronics PinkRoccade, Resellers, and their respective Customers within Getronics PinkRoccade's Subdomain are set forth and governed by the agreements among them. This CPS § 2.2.1 relates only to the warranties that certain CAs (Getronics PinkRoccade, and Managed PKI Customers) must make to end-user Subscribers receiving Certificates from them and to Relying Parties, the disclaimers of warranties they shall make to such Subscribers and Relying Parties, and the limitations of liability they shall place on such Subscribers and Relying Parties. Since ASB Customers outsource all front-end and back-end functions to the ASB Provider, the warranty requirements of this section do not apply to ASB Customers.

Getronics PinkRoccade uses, and (where required) Resellers shall use, Subscriber Agreements and Relying Party Agreements in accordance with CPS § 2.1.1. Managed PKI Customers have the option of using a Subscriber Agreement. These Subscriber Agreements shall meet the requirements imposed by Getronics PinkRoccade (in the case of Resellers). Requirements that Subscriber Agreements contain warranties, disclaimers, and limitations of liability below apply to and those Managed PKI Customers, and Resellers that use Subscriber Agreements. Getronics PinkRoccade adheres to such requirements in its Subscriber Agreements. Getronics PinkRoccade adheres to such requirements, and limitations in Relying Party Agreements apply toGetronics PinkRoccade. Note that terms applicable to Relying Parties may also be included in Subscriber Agreements, in addition to Relying Party Agreements, because Subscribers often act as Relying Parties as well.

2.2.1.1 Certification Authority Warranties to Subscribers and Relying Parties
Getronics PinkRoccade's Subscriber Agreements include, and other Subscriber Agreements shall include, a warranty to Subscribers that:

- There are no material misrepresentations of fact in the Certificate known to or originating from the entities approving the Certificate Application or issuing the Certificate,
- There are no errors in the information in the Certificate that were introduced by the entities approving the Certificate Application or issuing the Certificate as a result of a failure to exercise reasonable care in managing the Certificate Application or creating the Certificate,
- Their Certificates meet all material requirements of this CPS, and
- Revocation services and use of a repository conform to this CPS in all material aspects.

Getronics PinkRoccade's Relying Party Agreements contain a warranty to Relying Parties who reasonably rely on a Certificate that:

- All information in or incorporated by reference in such Certificate is accurate,
- In the case of Certificates appearing in the Getronics PinkRoccade repository, that the Certificate has been issued to the individual or organization named in the Certificate as the Subscriber, and that the Subscriber has accepted the Certificate in accordance with CPS § 4.3, and
- The entities approving the Certificate Application and issuing the Certificate have substantially complied with this CPS when issuing the Certificate.

Relying Party Agreements for Qualified Certificates contain additional warranties, that for a Relying Party to verify a digital signature:

- The Qualified Certificate contains all the details prescribed for a Qualified Certificate under the Directive,
- The Subscriber of such Qualified Certificate held the private key corresponding to the public key within such Qualified Certificate at the time the Qualified Certificate was issued,



- Where an Managed PKI Customer uses Key Manager to generate an end-user Subscriber key pair, or a CA pregenerates a key pair on an end-user Subscriber hardware token, the public key of such key pair can be used to verify digital signatures created with the corresponding private key, and
- The CA and/or RA exercises reasonable care to provide notice of the revocation of Qualified Certificates in accordance with CP §§ 4.4.9, 4.4.11.

Subscriber Agreements also contain the foregoing warranties and apply to the extent Subscribers also act as Relying Parties.

2.2.1.2 Certification Authority Disclaimers of Warranties

To the extent permitted by applicable law, Getronics PinkRoccade's Subscriber Agreements and Relying Party Agreements disclaim, and other Subscriber Agreements shall disclaim, Getronics PinkRoccade's possible warranties, including any warranty of merchantability or fitness for a particular purpose.

2.2.1.3 Certification Authority Limitations of Liability

To the extent permitted by applicable law, Getronics PinkRoccade's Subscriber Agreements and Relying Party Agreements limit, and other Subscriber Agreements shall limit, Getronics PinkRoccade's liability. Limitations of liability include an exclusion of indirect, special, incidental, and consequential damages. They also include the following liability caps limiting Getronics PinkRoccade's damages concerning a specific Certificate:

Class or Type	Liability Caps
Class 2	Five Thousand Euro (€5.000)
Qualified Certificate (QCP Public + SSCD)	One Hundred Thousand Euro (€100.000)
Class 3	One Hundred Thousand Euro (€100.000)

Table 6 - Liability Caps

2.2.1.3.1 Certification Authority Limitations of Liability for Qualified Certificates

Qualified Certificates may contain a limit on the value of the transactions for which the Qualified Certificate can be used. The amount of such a limitation of liability and limit on the value of transactions shall not exceed the limitation of liability.

2.2.1.4 Force Majeure

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

2.2.2 Registration Authority Liability

The warranties, disclaimers of warranty, and limitations of liability between an RA and the CA it is assisting to issue Certificates, or the applicable Reseller, are set forth and governed by the agreements between them. Getronics PinkRoccade, in its role as ASB Provider RA, uses Subscriber Agreements and Relying Party Agreements in accordance with CPS §§ 2.1.1-2.1.2, which have their own warranties, disclaimers, and limitations.

Managed PKI for SSL Customers, and Managed PKI for SSL (Premium Edition) Customers do not use Getronics PinkRoccade Subscriber Agreements or Relying Party Agreements. Thus, the practices disclosed in this section do apply to them.

Getronics PinkRoccade, on behalf of its ASB Customer CAs, includes within Subscriber Agreements and Relying Party Agreements the warranties, disclaimers of warranty, limitations of liability, and force majeure clauses set forth in CPS §§ 2.2.1.1-2.2.1.4.

2.2.3 Subscriber Liability

2.2.3.1 Subscriber Warranties

Getronics PinkRoccade's Subscriber Agreements require Subscribers to warrant that:



- Each digital signature created using the private key corresponding to the public key listed in the Certificate is the digital signature of the Subscriber and the Certificate has been accepted and is operational (not expired or revoked) at the time the digital signature is created,
- No unauthorized person has ever had access to the Subscriber's private key,
- All representations made by the Subscriber in the Certificate Application the Subscriber submitted are true.
- All information supplied by the Subscriber and contained in the Certificate is true.
- The Certificate is being used exclusively for authorized and legal purposes, consistent with this CPS,
- The Subscriber is an end-user Subscriber and not a CA, and is not using the private key
 corresponding to any public key listed in the Certificate for purposes of digitally signing any Certificate
 (or any other format of certified public key) or CRL, as a CA or otherwise.

Other Subscriber Agreements shall also contain these requirements.

Where a Subscriber's Certificate Application was approved by a Managed PKI Customer using the Managed PKI Key Manager offering, however, the Subscriber warrants only that no unauthorized person has ever had access to the copy of the Subscriber's private key on the Subscriber's hardware/software platform. These Subscribers make no warranty concerning the copies of their private keys in the possession of the Managed PKI Customers using Managed PKI Key Manager.

2.2.3.2 Private Key Compromise

The CP sets forth VTN Standards for the protection of the private keys of Subscribers, which are included by virtue of CPS § 6.2.7.1 in Subscriber Agreements. Subscriber Agreements state that Subscribers failing to meet these VTN Standards are solely responsible for any loss or damage resulting from such failure.

2.2.4 Relying Party Liability

Subscriber Agreements and Relying Party Agreements require Relying Parties to acknowledge that they have sufficient information to make an informed decision as to the extent to which they choose to rely on the information in a Certificate, that they are solely responsible for deciding whether or not to rely on such information, and that they shall bear the legal consequences of their failure to perform the Relying Party obligations in CPS § 2.1.4.

2.3 Financial Responsibility

2.3.1 Indemnification by Subscribers and Relying Parties

2.3.1.1 Indemnification by Subscribers

To the extent permitted by applicable law, Getronics PinkRoccade's Subscriber Agreement require, and other Subscriber Agreements shall require, Subscribers to indemnify Getronics PinkRoccade and any non-Getronics PinkRoccade CAs or RAs for:

- Falsehood or misrepresentation of fact by the Subscriber on the Subscriber's Certificate Application,
- Failure by the Subscriber to disclose a material fact on the Certificate Application, if the misrepresentation or omission was made negligently or with intent to deceive any party,
- The Subscriber's failure to protect the Subscriber's private key, to use a Trustworthy System, or to
 otherwise take the precautions necessary to prevent the compromise, loss, disclosure, modification,
 or unauthorized use of the Subscriber's private key, or
- The Subscriber's use of a name (including without limitation within a common name, domain name, or e-mail address) that infringes upon the Intellectual Property Rights of a third party.

2.3.1.2 Indemnification by Relying Parties

To the extent permitted by applicable law, Getronics PinkRoccade's Subscriber Agreements and Relying Party Agreements require, and other Subscriber Agreements shall require, Relying Parties to indemnify Getronics PinkRoccade and any non-Getronics PinkRoccade CAs or RAs for the Relying Party's:

- failure to perform the obligations of a Relying Party,
- reliance on a Certificate that is not reasonable under the circumstances, or
- failure to check the status of such Certificate to determine if the Certificate is expired or revoked.



2.3.2 Fiduciary Relationships

To the extent permitted by applicable law, Getronics PinkRoccade's Subscriber Agreements and Relying Party Agreements disclaim, and other Subscriber Agreements shall disclaim, any fiduciary relationship between Getronics PinkRoccade or a non-Getronics PinkRoccade CA or RA on one hand and a Subscriber or Relying Party on the other hand.

2.3.3 Administrative Processes

Managed PKI 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.. Managed PKI Customers shall also 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. This insurance requirement does not apply to governmental entities. Getronics PinkRoccade maintains such errors and omissions insurance coverage.

2.4 Interpretation and Enforcement

2.4.1 Governing Law

Subject to any limits appearing in applicable law, the laws of The Netherlands shall govern 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 PinkRoccade 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 CPS § 2.4.1 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 applicable national, state, local and foreign laws, rules, regulations, ordinances, decrees, and orders including, but not limited to, restrictions on exporting or importing software, hardware, or technical information.

2.4.2 Severability, Survival, Merger, Notice

To the extent permitted by applicable law, Getronics PinkRoccade's Subscriber Agreements and Relying Party Agreements contain, and other Subscriber Agreements shall contain, severability, survival, merger, and notice clauses. A severability clause in an agreement prevents any determination of the invalidity or unenforceability of a clause in the agreement from impairing the remainder of the agreement. A survival clause specifies the provisions of an agreement that continue in effect despite the termination or expiration of the agreement. A merger clause states that all understandings concerning the subject matter of an agreement are incorporated in the agreement. A notice clause in an agreement sets forth how the parties are to provide notices to each other.

2.4.3 Dispute Resolution Procedures

2.4.3.1 Disputes Among Getronics PinkRoccade and Customers

Disputes between Getronics PinkRoccade and one of its Customers shall be resolved pursuant to provisions in the applicable agreement between the parties.

2.4.3.2 Disputes with End-User Subscribers or Relying Parties

Disputes between Getronics PinkRoccade 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.

2.5 Fees

2.5.1 Certificate Issuance or Renewal Fees

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



2.5.2 Certificate Access Fees

Getronics PinkRoccade 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.

2.5.3 Revocation or Status Information Access Fees

Getronics PinkRoccade does not charge a fee as a condition of making the CRLs required by CPS § 4.4.9 available in a repository or otherwise available to Relying Parties. Getronics PinkRoccade does, however, charge a fee for providing customized CRLs, OCSP services, or other value-added revocation and status information services. Getronics PinkRoccade does not permit access to revocation information, Certificate status information, or time stamping in its repository by third parties that provide products or services that utilize such Certificate status information without Getronics PinkRoccade's prior express written consent.

2.5.4 Fees for Other Services Such as Policy Information

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

2.5.5 Refund Policy

Within Getronics PinkRoccade's Subdomain, the following refund is in effect for non Managed PKI customers: Getronics PinkRoccade adheres to, and stands behind, rigorous practices and policies in undertaking Certification operations and in issuing Certificates. Nevertheless, if for any reason a subscriber is not completely satisfied with the certificate issued to him, her, or it, the subscriber may request that Getronics PinkRoccade revoke the certificate within thirty (30) days of issuance and provide the subscriber with a refund. Following the initial thirty (30) day period, a subscriber may request that Getronics PinkRoccade revoke the certificate and provide a refund if Getronics PinkRoccade has breached a warranty or other material obligation under this CPS relating to the subscriber or the subscriber's certificate. After Getronics PinkRoccade revokes the subscriber's certificate, Getronics PinkRoccade will promptly credit the subscriber's credit card account (if the certificate was paid for via credit card) or otherwise reimburse the subscriber, for the full amount of the applicable fees paid for the certificate. This refund policy is not an exclusive remedy and does not limit other remedies that may be available to subscribers.

2.6 Publication and Repository

2.6.1 Publication of CA Information

VeriSign is responsible for the repository function for VeriSign's Public Primary Certification Authorities (PCAs) and VeriSign Infrastructure/Administrative CAs supporting the VTN.

Getronics PinkRoccade is responsible for the repository function for Getronics PinkRoccade's Infrastructure, Administrative CA's, and Getronics PinkRoccade's CAs, Managed PKI Customers' CAs, and ASB Customers' CAs which issue Certificates within Getronics PinkRoccade's Subdomain of the VTN

Getronics PinkRoccade publishes certain CA information in the repository section of Getronics PinkRoccade's web site at https://www.pki.getronicspinkroccade.nl/repository/ as described below.

Getronics PinkRoccade publishes the this CPS, VeriSign VTN CP, VeriSign EDP, Subscriber Agreements, revocation information concerning VTN Certificates in Getronics PinkRoccade VTN Subdomain, and Relying Party Agreements in the repository section of Getronics PinkRoccade's web site.

Getronics PinkRoccade publishes Certificates in accordance with Table 7 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 PinkRoccade 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 Type	Publication Requirements
Certificate of the Getronics	Available through query of the Getronics PinkRoccade LDAP directory
PinkRoccade CA supporting	server at directory.pinkroccade.com
Managed PKI Lite Certificates	
and CA Certificates of	
Managed PKI Customers	
OCSP Responder Certificates	Available through query of the Getronics PinkRoccade LDAP directory
	server at directory.pinkroccade.com
End-User Subscriber	Available to Relying Parties through query functions in the Getronics
Certificates	PinkRoccade repository at:
	https://mpki.pinkroccade.com/client/search.htm
End-User Subscriber	Made available through the query functions listed above, although at
Certificates issued through	the discretion of the Managed PKI Customer, the Certificate may be
Managed PKI Customers	accessible only via a search using the Certificate's serial number.

Table 7 – Certificate Publication Requirements

Getronics PinkRoccade publishes Certificate status information in accordance with CPS § 4.4.11. In addition, revocation services, revocation status information, and Relying Party Agreements are available twenty-four (24) hours per day, seven (7) days per week. Upon system failure, or repository service unavailability, or other factors that are not under the control of Getronics PinkRoccade, Getronics PinkRoccade will restore repository services within the time limits as set forth in CPS § 4.8.4.

2.6.2 Frequency of Publication

Updates to this CPS are published in accordance with CPS § 8. Updates to Subscriber Agreements and Relying Party Agreements are published as necessary. Certificates are published upon issuance. Certificate status information is published in accordance with CPS §§ 4.4.9 and 4.4.11.

2.6.3 Access Controls

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

Getronics PinkRoccade uses Trustworthy Systems for repositories holding Certificates to store them in a verifiable form so that:

- Only authorized persons can make entries or changes,
- Information can be checked for authenticity,
- Certificates are publicly available for retrieval in only those cases for which the Subscriber's consent has been obtained, and
- Any technical changes resulting in a Compromise of these security requirements are apparent to the operator.

2.6.4 Repositories

See CPS § 2.1.5.

2.7 Compliance Audit

An annual audit is performed for Getronics PinkRoccade's data center operations and key management operations supporting Getronics PinkRoccade's public and Managed PKI CA services. The requirements are in case of qualified certificates: ETSI TS 101 456 Policy requirements for certification authorities issuing qualified certificates and in case of non-qualified certificates: ETSI TS 102 042 Policy requirements for certification authorities issuing public key certificates.

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 PinkRoccade's operations unless required by the Customer. Getronics PinkRoccade shall be entitled to require that Managed PKI



Customers undergo a compliance audit under this CPS § 2.7 and audit programs for these types of Customers.

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

- Getronics PinkRoccade or its authorized representative shall be entitled, within its sole and exclusive
 discretion, to perform at any time an "Exigent Audit/Investigation" on itself or a Customer in the event
 Getronics PinkRoccade or its authorized representative 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 Compromise, or the act or failure to
 act poses an actual or potential threat to the security or integrity of the VTN.
- Getronics PinkRoccade or its authorized representative shall be entitled to perform "Supplemental Risk Management Reviews" on itself or 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 PinkRoccade or its authorized representative 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 Getronics PinkRoccade and the personnel performing the audit, review, or investigation.

2.7.1 Frequency of Entity Compliance Audit

Compliance audits are performed on an annual basis at the sole expense of the audited entity.

2.7.2 Identity/ Qualifications of Auditor

Getronics PinkRoccade's 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 Nederlandse Orde van Register Edp-Auditors (NOREA) or 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.

2.7.3 Auditor's Relationship to Audited Party

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

2.7.4 Topics Covered by Audit

The scope of Getronics PinkRoccade's annual audit includes CA environmental controls, key management operations and Infrastructure/Administrative CA controls.

2.7.5 Actions Taken as a Result of Deficiency

With respect to compliance audits of Getronics PinkRoccade's operations, significant exceptions or deficiencies identified during the Compliance Audit will result in a determination of actions to be taken. This determination is made by Getronics PinkRoccade management with input from the auditor. Getronics PinkRoccade management is responsible for developing and implementing a corrective action plan. If Getronics PinkRoccade 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 PinkRoccade Management will evaluate the significance of such issues and determine the appropriate course of action.

2.7.6 Communications of Results

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



2.8 Confidentiality and Privacy

Getronics PinkRoccade has implemented a privacy policy, which is located at: https://www.pki.getronicspinkroccade.nl/repository, in compliance with the requirements of the Directive on the Protection of Individuals with Regard to the Processing of Personal Data and on the Free Movement of Such Data, , CP § 2.8. and applicable Dutch privacy law (Wet Bescherming Personsgegevens)

2.8.1 Types of Information to be Kept Confidential and Private

The following records of Subscribers are, subject to CPS § 2.8.2, kept confidential and private ("Confidential/Private Information"):

- · CA application records, whether approved or disapproved,
- Certificate Application records (subject to CPS § 2.8.2),
- Private keys held by Managed PKI Customers using Managed PKI Key Manager and information needed to recover such private keys,
- Transactional records (both full records and the audit trail of transactions),
- VTN audit trail records created or retained by Getronics PinkRoccade, or a Customer,
- Getronics PinkRoccade audit reports created by Getronics PinkRoccade or their respective auditors (whether internal or public).
- Contingency planning, CA termination and disaster recovery plans, and
- Security measures controlling the operations of Getronics PinkRoccade hardware and software and the administration of Certificate services and designated enrollment services.

2.8.2 Types of Information Not Considered Confidential or Private

Getronics PinkRoccade Subdomain Participants acknowledge that Certificates, Certificate revocation and other status information, Getronics PinkRoccade's repository, and information contained within them are not considered Confidential/Private Information. Information not expressly deemed Confidential/Private Information under CPS § 2.8.1 shall be considered neither confidential nor private. This section is subject to applicable privacy laws.

2.8.3 Disclosure of Certificate Revocation/Suspension Information See CPS § 2.8.2.

2.8.4 Release to Law Enforcement Officials

Getronics PinkRoccade Subdomain Participants acknowledge that Getronics PinkRoccade shall be entitled to disclose Confidential/Private Information if, in good faith, Getronics PinkRoccade believes disclosure is necessary in response to subpoenas and search warrants. Private Keys of Qualified Certificates will never be disclosed to Getronics PinkRoccade. This section is subject to applicable privacy laws.

2.8.5 Release as Part of Civil Discovery

Getronics PinkRoccade Subdomain Participants acknowledge that Getronics PinkRoccade shall be entitled to disclose Confidential/Private Information if, in good faith, Getronics PinkRoccade believes disclosure is necessary in response to judicial, administrative, or other legal process during the discovery process in a civil or administrative action, such as subpoenas, interrogatories, requests for admission, and requests for production of documents. This section is subject to applicable privacy and other laws.

2.8.6 Disclosure Upon Owner's Request

Getronics PinkRoccade's privacy policy contains provisions relating to the disclosure of Confidential/Private Information to the person disclosing it to Getronics PinkRoccade. This section is subject to applicable privacy laws.

2.8.7 Other Information Release Circumstances

No stipulation.

2.9 Intellectual Property Rights

The allocation of Intellectual Property Rights among Getronics PinkRoccade Subdomain Participants other than Subscribers and Relying Parties is governed by the applicable agreements among such Getronics



PinkRoccade Subdomain Participants. The following subsections of CPS § 2.9 apply to the Intellectual Property Rights in relation to Subscribers and Relying Parties.

2.9.1 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 PinkRoccade and Customers grant permission to reproduce and distribute Certificates on a 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 PinkRoccade and Customers shall grant permission to use revocation information to perform Relying Party functions subject to the applicable Relying Party Agreement, or any other applicable agreements.

2.9.2 Property Rights in the CPS

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

2.9.3 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.

2.9.4 Property Rights in Keys and Key Material

Key pairs corresponding to Certificates of CAs and end-user Subscribers are the respective property of the CAs and end-user Subscribers that are the Subjects of these Certificates, subject to the rights of Managed PKI Customers, 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. Notwithstanding 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, without limiting the generality of the foregoing, 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.



3. Identification and Authentication

3.1 Initial Registration

3.1.1 Types of Names

Getronics PinkRoccade CA Certificates contain X.501 Distinguished Names in the Issuer and Subject fields. Getronics PinkRoccade CA Distinguished Names consist of the components specified in Table 8 below.

Attribute	Value	
Country (C) =	"NL" or not used.	
Organization (O) =	PinkRoccade or Roccade.	
Organizational Unit (OU) =	Getronics PinkRoccade 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 8 – Distinguished Name Attributes in CA Certificates

End-user Subscriber Certificates, issued under either a CA governed by Getronics PinkRoccade's 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 9 below.

Attribute	Value		
Country (C) =	NL or US or not used.		
Organization (O) =	The Organization attribute is used as follows: "PinkRoccade or Roccade." for Getronics PinkRoccade OCSP Responder and individual Certificates. Subscriber organizational name for web server 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 Getronics PinkRoccade 		
0	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).		



Attribute	Value
E-Mail Address (E) =	E-mail address (for individual Certificates)

Table 9 – 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.

- The authenticated common name value included in the Subject distinguished names of organizational Certificates is a domain name (in the case of Secure Server IDs and Global Server 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 ASB 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 contain names with commonly understood semantics permitting the determination of the identity of the individual or organization that is the Subject of the Certificate. For such Certificates, pseudonyms of end-user Subscribers (names other than a Subscriber's true personal or organizational name) are not permitted.

The use of pseudonyms is permitted only for Qualified Certificates. Getronics PinkRoccade shall ensure that the requirements of the national data protection legislation are adhered to within the registration process of pseudonyms.

Getronics PinkRoccade 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 Rules for Interpreting Various Name Forms

No stipulation.

3.1.4 Uniqueness of Names

Getronics PinkRoccade ensures that Subject Distinguished Names are unique within the domain of a specific CA through automated components of the Subscriber enrollment process.

3.1.5 Name Claim Dispute Resolution Procedure

Certificate Applicants are prohibited from using names in their Certificate Applications that infringe upon the Intellectual Property Rights of others. Getronics PinkRoccade, 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 PinkRoccade is entitled, without liability to any Certificate Applicant, to reject or suspend any Certificate Application because of such dispute.

3.1.6 Recognition, Authentication, and Role of Trademarks See CPS § 3.1.5.

3.1.7 Method to Prove Possession of Private Key

Getronics PinkRoccade verifies the Certificate Applicant's possession of a private key through the use of a digitally signed certificate request pursuant to PKCS #10, another cryptographically-equivalent demonstration, or another Getronics PinkRoccade-approved method.

Where a key pair is generated by Getronics PinkRoccade or a Customer on behalf of a Subscriber (e.g., where pre-generated keys are placed on smart cards), this requirement is not applicable.

3.1.8 Authentication of Organization Identity



Getronics PinkRoccade confirms the identity of Class 3 organizational end-user Subscribers and other enrollment information provided Certificate Applicants in accordance with the procedures set forth in the subsections that follow. In addition to the procedures below, the Certificate Applicant must demonstrate that it rightfully holds the private key corresponding to the public key to be listed in the Certificate in accordance with CPS § 3.1.7.

- 3.1.8.1 Authentication of the Identity of Organizational End-User Subscribers
- 3.1.8.1.1 Authentication for Retail Organizational Certificates

Getronics PinkRoccade confirms the identity of a Certificate Applicant for a Retail organizational Certificate by:

- Verifying that the organization exists through the use of 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
- Confirming with an appropriate Organizational contact by telephone, postal mail, or a comparable
 procedure 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
 Organization is authorized to do so.

Additional procedures are performed for specific types of Organizational Certificates as described in Table 10 below.

Certificate Type	Additional Procedures
All Server Certificates	Getronics PinkRoccade 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.
Global Server IDs	Getronics PinkRoccade performs performing 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").
Class 3 Organizational ASB Certificates	Getronics PinkRoccade confirms with an appropriate Organizational contact by telephone, postal mail, or a comparable procedure: • the employment of the representative submitting the Certificate Application on behalf of the Certificate Applicant, and • the authority of the representative to act on behalf of the Certificate Applicant. Getronics PinkRoccade confirms with the Certificate Applicant's representative by telephone, postal mail, and/or a comparable procedure that the person named as representative has submitted the Certificate Application.
Qualified Certificates	The responsible senior management from the applying organization authorizes one or more Contact person(s) in written form. The Contact person is authorized to apply for, revoke and renew Qualified Certificates and fulfilling all corresponding responsibilities and obligations, on behalf of the organization. The Certificate Application has to include proof of the Organizational existence and identity. Getronics PinkRoccade verifies the Organizational data and documents, via an out-of-band check and other verification methods.

Table 10 – Specific Authentication Procedures

3.1.8.1.2 Authentication for Managed PKI for SSL or Managed PKI for SSL (Premium Edition) With respect to Managed PKI Customers and Managed PKI for SSL (Premium Edition) Customers, the identity confirmation process begins with Getronics PinkRoccade's confirmation of the identity of the



Managed PKI for SSL Customer or Managed PKI for SSL (Premium Edition) Customer itself in accordance with CPS § 3.1.8.2. Following such confirmation, the Managed PKI for SSL Customer or Managed PKI for SSL (Premium Edition) Customer is responsible for approving the issuance of Certificates to servers within its own organization by:

- Ensuring that the server designated as the Subject of a Secure Server ID or Global Server ID actually exists, and
- Ensuring the organization has authorized the issuance of a Secure Server ID or Global Server ID to the server.

3.1.8.1.3 Authentication for Class 3 Organizational ASB Certificates

Getronics PinkRoccade's services as an ASB Provider include the following steps to confirm the identity of a Certificate Applicant for a Class 3 Organizational ASB Certificate:

- A determination 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,
- A confirmation by telephone, confirmatory postal mail, and/or comparable procedure to the Certificate
 Applicant to confirm certain information about the organization, confirm that the organization has
 authorized the Certificate Application, confirm the employment of the representative submitting the
 Certificate Application on behalf of the Certificate Applicant, and confirm the authority of the
 representative to act on behalf of the Certificate Applicant, and
- A confirmation by telephone, confirmatory postal mail, and/or comparable procedure to the Certificate Applicant's representative to confirm that the person named as representative has submitted the Certificate Application.

Getronics PinkRoccade may subcontract such services provided that the subcontractor meets these requirements, security requirements, and all other requirements imposed on Getronics PinkRoccade when performing these services under the CPS.

3.1.8.2 Authentication of the Identity of CAs and RAs

For Getronics PinkRoccade CA Certificate Applications, certificate requests are created, processed and approved by authorized Getronics PinkRoccade personnel using a controlled process that requires the participation of multiple trusted Getronics PinkRoccade employees.

Managed PKI Customers, and ASB Customers enter into an agreement with Getronics PinkRoccade before becoming CAs or RAs. Getronics PinkRoccade authenticates the identity of the prospective Managed PKI Customer, or ASB Customer before final approval of its status as CA or RA by performing the checks required for the confirmation of the identity of organizational end-user Subscribers specified in CPS § 3.1.8.1, except that instead of a Certificate Application, the validation is of an application to become an Managed PKI Customer, Gateway Customer, or ASB Customer. In addition, in the case of Managed PKI Customers Getronics PinkRoccade confirms that the person identified as Managed PKI Administrator is authorized to act in the capacity. Optionally, Getronics PinkRoccade may require the personal appearance of an authorized representative of the organization before authorized Getronics PinkRoccade personnel.

In some cases, Getronics PinkRoccade may delegate responsibility for authentication of a prospective Managed PKI Customer, ASB Customer to a Reseller. Resellers' procedures for the authentication of the such an organizational identity must be submitted to Getronics PinkRoccade for approval, and such approval is a condition of a Reseller beginning its operations as a provider of Managed PKI or Authentication Service Bureau services, as the case may be. Such procedures must meet the requirement specified in the previous paragraph.

3.1.9 Authentication of Individual Identity

For all Classes of individual Certificates, Getronics PinkRoccade (on behalf of its own CA or the CAs of its ASB Customers), and Managed PKI Customers confirm that:

- the Certificate Applicant is the person identified in the Certificate Application,
- the Certificate Applicant rightfully holds the private key corresponding to the public key to be listed in the Certificate in accordance with CPS § 3.1.7, and
- the information to be included in the Certificate is accurate.



In addition, Getronics PinkRoccade performs the more detailed procedures described below for each Class of Certificate.

3.1.9.1 Class 2 Individual Certificates

Authentication of Class 2 Certificates takes place in one of two ways. For Class 2 Managed PKI Certificates, Managed PKI Customers and Managed PKI Lite Customers use business records or databases of business information to approve or deny Certificate Applications in accordance with CPS § 3.1.9.2.1. For Retail Class 2 Certificates and Class 2 Individual ASB Certificates, Getronics PinkRoccade confirms the identity of Certificate Applicants using information residing in the database of a Getronics PinkRoccade-approved identity proofing service in accordance with CPS § 3.1.9.2.2.

3.1.9.1.1 Class 2 Managed PKI Certificates

For Class 2 Managed PKI Certificates, the Managed PKI Customer approves Certificate Applications using manual or automated authentication procedures or passcodes as discussed below.

Managed PKI Customers and Managed PKI Lite Customers confirm the identity of individuals by comparing enrollment information against their own business records or databases of business information. For example, they may check enrollment information against employee or independent contractor records in a human resources department database. The Managed PKI Customer or Managed PKI Lite Customer may approve the Certificate Application manually using the Managed PKI Control Center if the enrollment information matches the records or database used for authentication. This process is known as "Manual Authentication."

Managed PKI 's Automated Administration Software Module and other similar Getronics PinkRoccade software give Managed PKI Customers the option of automatic approval and revocation of users or devices directly from pre-existing administrative systems or databases, rather than requiring Manual Authentication for each Certificate Application. Managed PKI Customers using the Managed PKI Automated Administration Software Module authenticate the identity of potential Certificate Applications before placing their information in a database. When a Certificate Applicant submits a Certificate Application, then, the Automated Administration Software Module compares information in the Certificate Application with the database and, if the information matches, automatically approves the Certificate Application for immediate issuance by Getronics PinkRoccade. This process is called "Automated Administration."

Getronics PinkRoccade Managed PKI "Passcode" authentication ("Passcode Authentication") involves the automatic approval or rejection of Certificate Applications by comparing a Certificate Applicant's enrollment data with pre-configured authentication data that are provided by a Managed PKI Customer's Managed PKI Administrator. With Passcode Authentication, the Managed PKI Customer uses an offline process to distribute "passcodes" to prospective Certificate Applicants that have satisfied the appropriate level of authentication. The Certificate Applicant then provides this passcode when submitting a Certificate Application, along with other authentication information. The passcode and additional authentication information are compared to the passcode database previously configured by the Managed PKI Administrator, and if all the fields match, a Certificate is issued.

Managed PKI Customers not using Automated Administration or Passcode Authentication and all Managed PKI Lite Customers must use Manual Authentication.

3.1.9.1.2 Class 2 Retail Certificates

Getronics PinkRoccade validates Certificate Applications for Class 2 Retail Certificates and Class 2 Individual ASB Certificates by determining if identifying information in the Certificate Application matches information residing in the database of a Getronics PinkRoccade-approved identity proofing service, such as a major credit bureau or other reliable source of information providing services. If the information in the Certificate Application matches the information in the database, Getronics PinkRoccade may approve the Certificate Application.

3.1.9.2 Qualified Certificates

In addition to the requirements in CPS §§ 3.1.9.1.2, the authentication of Qualified Certificates is based on the direct personal (physical) presence of the Certificate Applicant before Getronics PinkRoccade or an agent



of Getronics PinkRoccade. During the direct physical presence of the Certificate Applicant, Getronics PinkRoccade or an agent of Getronics PinkRoccade shall check the identity of the Certificate Applicant against one of the following government issued identification documents; passport and national identity card. Getronics PinkRoccade 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 adress

Getronics PinkRoccade considers the signature of the Contact person under the Certificate Application as proof that the Certificate Applicant is authorized to receive a Qualified Certificate on behalf of the Subscriber's Organization.

Getronics PinkRoccade or an agent of Getronics PinkRoccade verifies and validates that the data from the Certificate Application is complete and correct, and the copy of identity document is valid.

3.1.9.3 Class 3 Individual Certificates

3.1.9.3.1 Class 3 Administrator Certificates

Various Administrator Certificates are used to control access to Getronics PinkRoccade CA systems and for authorizing certain actions within the VTN. The specific types of Class 3 Administrator Certificates are listed in CPS §1.3.1.

Getronics PinkRoccade authenticates Class 3 Administrator Certificate Applications for Managed PKI Customer and trusted fourth party employees as follows:

- Getronics PinkRoccade authenticates the existence and identity of the entity employing or retaining the Administrator pursuant to CPS § 3.1.8.2
- Getronics PinkRoccade confirms the employment and authorization of the person named as Administrator in the Certificate Application to act as Administrator.

Getronics PinkRoccade also approves Certificate Applications for its own Administrators. Administrators are "Trusted Persons" within their respective organization (see CPS § 5.2.1). In this case, authentication of their Certificate Applications is based on confirmation of their identity in connection with their employment or retention as an independent contractor (see CPS § 5.2.3), background checking procedures (see CPS § 5.3.2), and authorization to act as Administrator.

3.2 Routine Rekey and Renewal

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 PinkRoccade generally requires that the Subscriber generate a new key pair to replace the expiring key pair (technically defined as "rekey"). However, in certain cases (i.e., for web server Certificates) Getronics PinkRoccade permits Subscribers to request a new certificate for an existing key pair (technically defined as "renewal"). Table 11 below describes Getronics PinkRoccade's requirements for routine rekey (issuance of a new certificate for a new key pair that replaces an existing key pair) and renewal (issuance of a new certificate for an existing key pair).

Generally speaking, both "Rekey" 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 PinkRoccade Certificates, except for Class 3 Server Certificates, this distinction is not important as a new key pair is always generated as part of Getronics PinkRoccade's end-user Subscriber Certificate renewal 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 "rekey" and "renewal." In addition, new CA Certificates may be issued for existing Getronics PinkRoccade CA key pairs subject to the constraints specified in Table 11 below.



Certificate Class and Type	Routine Rekey and Renewal Requirements
Class 2 and Class 3 Administrator Certificates	For these types of Certificates, Subscriber key pairs are browser generated as part of the online enrollment process. The Subscriber does not have the option to submit an existing key pair for "renewal." Accordingly, for these types of Certificates, rekey is supported and Certificate renewal is not.
Qualified Certificates	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 § 3.1.9.2 for the authentication of an original Certificate Application and check that the information used to verify the identity of the Subscriber is still valid.
Class 3 Server Certificates	For Secure Server IDs or Global Server IDs, Subscriber key pairs are generated outside of the online enrollment process (i.e., generated on a web server). Most server key generation tools, permit the Subscriber to create a new Certificate Signing Request (CSR) for a previously-used key pair. Accordingly, for Secure Server IDs and Global Server IDs, both rekey and Certificate renewal are supported.
CA Certificates	Renewal of CA Certificates is permitted as long as the cumulative certified lifetime of the CA key pair does not exceed the applicable maximum CA key pair lifetime specified in CPS § 6.3.2. Getronics PinkRoccade CAs may also be rekeyed in accordance with CPS § 4.7. Accordingly, for Getronics PinkRoccadeCA Certificates both rekey and certificate renewal are supported.

Table 11 – Routine Rekey and Renewal Requirements

3.2.1 Routine Rekey and Renewal for End-User Subscriber Certificates

Subscriber Certificates, which have not been revoked, may be replaced (i.e., rekeyed or renewed) in accordance with the Table 12 below.

Timing	Requirement
Within 30 days before and 30 days after Certificate expiration	For all Getronics PinkRoccade Certificates (except for Class 3 Organizational ASB Certificates and Qualified Certificates), Getronics PinkRoccade or the Managed PKI Customer authenticates Subscribers seeking Certificate replacement through the use of a Challenge Phrase. As part of the initial registration process, Subscribers choose and submit a Challenge Phrase with their enrollment information. Upon rekey or renewal of a Certificate within the specified timeframe, if a Subscriber correctly submits the Subscriber's Challenge Phrase (or the equivalent thereof) with the Subscriber's reenrollment information, or proves possession of the private key, and the enrollment information (including contact information) has not changed, a new Certificate is automatically issued. After rekeying or renewal in this fashion, and on at least alternative instances of subsequent rekeying or renewal thereafter, the CA or RA shall reconfirm the identity of the Subscriber in accordance with the requirements specified in CPS § 3.1.8.1 for the authentication of an original Certificate Application. The authentication of a request to replace a Class 3 Organizational ASB Certificate requires the use of a Challenge Phrase as well as the authentication procedures for an original Certificate Application under CPS § 3.1.8.1.3.
Beyond 30 days after Certificate expiration	In this scenario, the requirements specified in CPS § 3.1.8.1 and 3.1.9 for the authentication of an original Certificate Application are used for replacing an end-user Subscriber Certificate. The authentication of a request to replace a Class 3 Organizational ASB



Timing	Requirement
	Certificate requires the use of a Challenge Phrase as well as the
	authentication procedures for an original Certificate Application under CPS §
	3.1.8.1.3.

Table 12 – Routine Rekey and Renewal Requirements for End-User Subscriber Certificates

3.2.2 Routine Rekey and Renewal for CA Certificates

Getronics PinkRoccade CAs may be rekeyed periodically in accordance with CPS § 4.7.

Getronics PinkRoccade CA Certificates may be renewed within the parameters specified in CPS § 6.3.2. For example, if an initial PCA certificate was issued with a lifetime of 10 years, renewed Certificates may be issued to extend the validity period of the CA's key pair for an additional 20 years, reaching the maximum permitted validity period of 30 years. CA Certificate Renewal is not permitted after Certificate Expiration.

For VeriSign self-signed PCA Certificates, other Getronics PinkRoccade root CAs, and Getronics PinkRoccade CA Certificates, renewal requests are created and approved by authorized VeriSign personnel through a controlled process that requires the participation of multiple trusted individuals.

For non-Getronics PinkRoccade CA Certificates which chain to the VeriSign PCAs, Getronics PinkRoccade performs appropriate procedures to verify that the Managed PKI Customer, or ASB Customer is in fact the Subscriber of the CA Certificate. Authentication procedures are the same as original enrollment pursuant to CPS § 3.1.8.3.

3.3 Rekey After Revocation

Rekey after revocation is not be permitted if:

- revocation occurred because the Certificate was issued to a person other than the one named as the Subject of the Certificate,
- the Certificate was issued without the authorization of the person 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.

Subject to the foregoing paragraph, Subscriber Certificates, which have been revoked, may be replaced (i.e., rekeyed) in accordance with Table 13 below.

Timing	Requirement
Prior to Certificate expiration	For replacement of an organizational or individual Certificate following revocation of the Certificate, Getronics PinkRoccade verifies that the person seeking certificate replacement is, in fact, the Subscriber (for individuals) or an authorized organizational representative (for organizations) through the use of a Challenge Phrase, as described in CPS § 3.2.1. Other than this procedure, the requirements for the validation of an original Certificate Application in CPS §§ 3.1.8.1, 3.1.9 are used for replacing a Certificate following revocation. Such Certificates contain the same Subject distinguished name as the Subject distinguished name of the Certificate being replaced. The authentication of a request to replace a Class 3 Organizational ASB Certificate requires the use of a Challenge Phrase as well as the authentication procedures for an original Certificate Application under CPS § 3.1.8.1.3.



Timing	Requirement
After Certificate expiration	In this scenario, the requirements specified in CPS §§ 3.1.8.1, § 3.1.9 for the authentication of an original Certificate Application shall be used for replacing an end-user Subscriber Certificate.
	The authentication of a request to replace a Class 3 Organizational ASB Certificate requires the use of a Challenge Phrase as well as the authentication procedures for an original Certificate Application under CPS § 3.1.8.1.3.

Table 13 – Requirements for Certificate Replacement After Revocation

3.4 Revocation Request

Prior to the revocation of a Certificate, Getronics PinkRoccade verifies that the revocation has been requested by the Certificate's Subscriber, the entity that approved the Certificate Application, or the applicable ASB Customer (in the case of Certificates issued by an ASB Customer CA). Acceptable procedures for authenticating Subscriber revocation requests include:

- Having the Subscriber submit the Subscriber's Challenge Phrase and revoking the Certificate automatically if it matches the Challenge Phrase on record,
- Receiving a message purporting to be from the Subscriber that requests revocation and contains a
 digital signature verifiable with reference to the Certificate to be revoked, and
- 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. Depending
 on the circumstances, such communication may include one or more of the following: telephone,
 facsimile, e-mail, postal mail, or courier service.

Getronics PinkRoccade Administrators are entitled to request the revocation of end-user Subscriber Certificates within Getronics PinkRoccade's Subdomain. Getronics PinkRoccade authenticates the identity of Administrators via access control using SSL and client authentication before permitting them to perform revocation functions. In the case of ASB Customers' CA Administrators providing revocation instructions, however, the ASB Providers shall authenticate the identity of such CA Administrators by telephone.

Managed PKI Customers using the Automated Administration Software Module may submit bulk revocation requests to Getronics PinkRoccade. Such requests are authenticated via a request digitally signed with the private key in the Managed PKI Customer's Automated Administration hardware token.

The requests of Managed PKI Customers to revoke a CA Certificate are authenticated by Getronics PinkRoccade 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 autorize the revocation request with
 the corresponding Challenge Phrase
- Signed e-mail; the Contact person requests revocation by sending a signed e-mail message to Getronics PinkRoccade Validation at pkivalidation@getronics.com, detailling the name of the Subject, subjectserialnumber, reason for revocation and certificatenumber
- Signed fax; the Contact person requests revocation by sending a signed fax to Getronics
 PinkRoccade Validation at +31 55 577 8460, detailling the name of the Subject, subjectserialnumber,
 reason for revocation and certificatenumber

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 autorize the revocation request with the corresponding Challenge Phrase



Getronics PinkRoccade:

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

Authorized revocation request 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 per day, 7 days a week. Getronics PinkRoccade will process revocation requests via fax and e-mail on the next business day.



4. Operational Requirements

4.1 Certificate Application

4.1.1 Certificate Applications for End-User Subscriber Certificates

For Getronics PinkRoccade Certificates, all end-user Certificate Applicants shall undergo an enrollment process consisting of:

- completing a Certificate Application and providing the required information,
- generating, or arranging to have generated, a key pair in accordance with CPS § 6.1,
- the Certificate Applicant delivering his, her, or its public key, directly or through an Managed PKI
 Customer, to Getronics PinkRoccade, or the Certificate Applicant delivering the public key to a
 Gateway Customer, in accordance with CPS § 6.1.3,
- demonstrating to Getronics PinkRoccade pursuant to CPS § 3.1.7 that the Certificate Applicant has
 possession of the private key corresponding to the public key delivered to Getronics PinkRoccade,
 and
- manifesting assent to the relevant Subscriber Agreement.

Web Hosts may submit Certificate Applications on behalf of their customers pursuant to the Web Host Program (see CPS § 1.1.2.6).

4.1.1.1 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 in accordance with CPS §§ 2.1.1.1, 2.1.2.1,
- The Certificate Applicant shall present evidence of identity consistent with CPS § 3.1.9.2, 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 contact the Contact person.
- Records retained in accordance with CPS § 4.6 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.

In the case of an application for renewal or rekeying:

- Any changes in the terms of the Subscriber Agreement following the previous enrollment or reenrollment are communicated in accordance with EDP §§ 2.1.1, 2.1.2, and
- Records retained under EDP § 4.6 also include the Subscriber's assent to any such changes.

Certificate Applications are submitted either to Getronics PinkRoccade, or Managed PKI Customer for processing, either approval or denial. The entity processing the Certificate Application and the entity issuing the Certificate pursuant to CPS § 4.2 may be two different entities as shown in the following table.

Certificate Class/Category	Entity Processing Certificate Applications	Entity Issuing Certificate
Class 2 individual ASB Certificate	Getronics PinkRoccade, as ASB Provider	Getronics PinkRoccade
Class 2 individual Managed PKI Certificate	Class 2 Managed PKI Customer or Managed PKI Lite Customer	Getronics PinkRoccade
Qualified Certificate	Getronics PinkRoccade or Managed PKI Customer	Getronics PinkRoccade
Class 3 Administrator or Automated Adminstration Certificate	Getronics PinkRoccade	Getronics PinkRoccade
Class 3 organizational Retail Certificates	Getronics PinkRoccade	Getronics PinkRoccade
Class 3 organizational Managed PKI Certificates (Managed PKI for SSL or Managed PKI for SSL (Premium Edition))	Managed PKI for SSL Customer or Managed PKI for SSL (Premium Edition) Customer	VeriSign



Certificate Class/Category	Entity Processing Certificate Applications	Entity Issuing Certificate
Class 3 organizational ASB Certificate	Getronics PinkRoccade, as ASB Provider	Getronics PinkRoccade
CA, Infrastructure and Getronics PinkRoccade Employee Certificates	Getronics PinkRoccade	Getronics PinkRoccade or VeriSign

Table 14 - Entities Receiving Certificate Applications

4.1.2 Certificate Applications for CA, RA, Infrastructure and Employee Certificates

4.1.2.1 CA Certificates

The VeriSign PCAs issue Certificates only to CAs subordinate to them, including VeriSign, Affiliate, and Managed PKI Customer. For Getronics PinkRoccade CAs, which are subscribers of CA Certificates, certificate requests are created and approved by authorized Getronics PinkRoccade personnel through a controlled process that requires the participation of multiple trusted individuals.

Managed PKI Customers, which are subscribers of CA Certificates, are not required to complete formal Certificate Applications. Instead, they enter into a contract with Getronics PinkRoccade. CA Certificate Applicants are required to provide their credentials as required by CPS § 3.1.8.2 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 Managed PKI Customer's, or ASB Customer's CA key pair, the applicant shall cooperate with Getronics PinkRoccade to determine the appropriate distinguished name and the content of the Certificates to be issued to the applicant. For these CAs, certificate requests are created and approved by authorized Getronics PinkRoccade personnel through a controlled process that requires the participation of multiple trusted individuals.

4.1.2.2 RA Certificates

Getronics PinkRoccade operates several Administrative CAs, which issue Certificates to RAs and RA systems including:

- Getronics PinkRoccade personnel (Getronics PinkRoccade RA Administrators) who process Certificate Applications on behalf of Getronics PinkRoccade CAs,
- Managed PKI Customer personnel (Managed PKI Administrators) who process Certificate
 Applications on behalf of the Managed PKI Customer within their organization and servers within their
 Subdomain, and
- Automated Administration servers, which process Certificate Applications for Managed PKI Customers where an Automated Administration authentication process has been established.

For all of these RAs, as subscribers to the relevant Administrative CA, the requirements for Class 3 Administrator Certificates specified in CPS § 4.1.1 apply.

4.1.2.3 Infrastructure Certificates

Getronics PinkRoccade also operates several Infrastructure CAs which issue Certificates to Getronics PinkRoccade infrastructure components (e.g., OCSP Responders providing Certificate status information and Roaming Servers, which support the Getronics PinkRoccade Roaming Service).

4.1.2.4 Getronics PinkRoccade Employee Certificates

Getronics PinkRoccade issues Certificates to its employees upon the successful submission and processing of a Certificate Application.

4.2 Certificate Issuance

4.2.1 Issuance of End-User Subscriber Certificates

After a Certificate Applicant submits a Certificate Application, Getronics PinkRoccade, an Managed PKI Administrator (see CPS § 4.1.1) attempts to confirm the information in the Certificate Application (other than Non-Verified Subscriber Information) pursuant to CPS §§ 3.1.8.1, 3.1.9. Upon successful performance of all required authentication procedures pursuant to CPS § 3.1, Getronics PinkRoccade, an Managed PKI



Administrator approves the Certificate Application. If authentication is unsuccessful, Getronics PinkRoccade, an Managed PKI Administrator denies the Certificate Application.

A Certificate is created and issued following the approval of a Certificate Application or following receipt of an RA's request to issue the Certificate. Getronics PinkRoccade creates and issues to a Certificate Applicant a Certificate based on the information in a Certificate Application following approval of such Certificate Application. When an Managed PKI Customer approves a Certificate Application and communicates the approval to Getronics PinkRoccade, Getronics PinkRoccade creates a Certificate and issues it to the Certificate Applicant. The procedures of this section are also used for the issuance of Certificates in connection with the submission of a request to replace (i.e., renew or rekey) a Certificate.

4.2.1.1 Issuance of Qualified Certificates

The Qualified Certificates generated and issued in accordance with CPS § 4.2.1 are issued by systems utilizing safeguards against forgery (as detailed in CPS § 6 and EDP § 6) and that ensure that the Certificate is issued to the Certificate Applicant, or applicant for renewal or rekeying, holding the private key corresponding to the public key in the Certificate to be issued.

The issuance of Certificates under CPS § 3.2 is, as a technical matter, rekeying rather than a recertification of a previously-certified public key.

At the moment of issuance the SSCD with the Qualified Certificate is transferred to the Subject/Certificate Applicant. The following actions will be performed by Getronics PinkRoccade (or an agent of Getronics PinkRoccade):

- Verification of the validity of the identity document of the Subject
- Physical identity check of the Subject
- Transfer of the activation data of the SSCD (PIN and PUK code)
- Transfer of the Challenge Phrase
- · Check of the Subject's signature on the receipt
- Signing of the Subject's receipt

The Subject will perform a check on the identification number of the SSCD with the receipt and signs the receipt.

The SSCD that contains the Qualified Certificate, may also contain a class 2 encryption certificate, for encryption purposes.

4.2.2 Issuance of CA, RA and Infrastructure Certificates

Getronics PinkRoccade authenticates the identity of entities wishing to become Customers in accordance with CPS § 3.1.8.2 and, upon approval, issues the Certificates needed to perform their CA or RA functions. Before Getronics PinkRoccade enters into a contract with Customer applicant under CPS § 4.1.2, the identity of the potential Customer is confirmed based on the credentials presented. The execution of such a contract indicates the complete and final approval of the application by Getronics PinkRoccade. The decision to approve or reject Customer application is solely at the discretion of Getronics PinkRoccade. Following such approval, Getronics PinkRoccade issues the Certificate to the Customer CA or RA in accordance with CPS § 6.1.

For Getronics PinkRoccade infrastructure components (e.g., OCSP Responders), Certificate requests are created and approved by authorized Getronics PinkRoccade personnel through a controlled process that requires the participation of multiple Trusted Persons.

4.2.2.1 Additional requirements for CAs and RAs Providing Qualified Certificate Services
Before enabling a potential Managed PKI Customer to begin operations, Getronics PinkRoccade will not
permit a potential Customer to begin operations until Getronics PinkRoccade has confirmed that the potential
Customer:



- Can satisfy the personnel controls of CP § 5.3 and EDP § 5.3, including their non-discrimination requirement and training requirements,
- Is obligated to make its services available to all applicants whose activities fall within its declared field of operation,
- Is a legal entity, which shall be confirmed as part of the authentication of the potential CA or RA
 organization,
- Has a system or systems for quality and information security management appropriate for the certification services it is providing,
- Can meet the financial responsibility obligations of CP § 2.3 and EDP § 2.3,
- Can meet the dispute resolution requirements of EDP § 2.4.3,
- Is not known to have been convicted of criminal wrongdoing or adjudged to be liable in a civil case, where such conviction or adjudication casts serious doubts on the trustworthiness of the potential Affiliate or Customer.

4.3 Certificate Acceptance

Upon Certificate generation, Getronics PinkRoccade notifies Subscribers that their Certificates are available and notifies them of the means for obtaining such Certificates. For Managed PKI Customers, Subscribers are notified through the Managed PKI Administrator.

Upon issuance, Certificates are 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. For example, Getronics PinkRoccade may send the Subscriber a PIN, which the Subscriber enters into an enrollment web page to obtain the Certificate. The Certificate may also be sent to the Subscriber in an e-mail message. Downloading a Certificate, or installing a Certificate from a message attaching it constitutes the Subscriber's acceptance of the Certificate.

Qualified Certificates will be issued in a face-to-face situation. The Subject will signs for receipt of the Qualified Certificate.

4.4 Certificate Suspension and Revocation

4.4.1 Circumstances for Revocation

4.4.1.1 Circumstances for Revoking End-User Subscriber Certificates

Reasons for revocation of an end-user Subscriber Certificate are:

- Getronics PinkRoccade, 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 PinkRoccade 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 an Managed PKI Customer, or an ASB Customer issuing Class 3
 Organizational ASB Certificates, or a Qualified Certificate Customer with a Subscriber is terminated
 or has otherwise ended,
- The affiliation between an organization that is a Subscriber of a Class 3 Organizational ASB
 Certificate and the organizational representative controlling the Subscriber's private key is terminated or has otherwise ended.
- Getronics PinkRoccade 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 PinkRoccade or a Customer has reason to believe that a material fact in the Certificate Application is false.
- Getronics PinkRoccade or a Customer determines that a material prerequisite to Certificate Issuance was neither satisfied nor waived,



- In case of Class 3 organizational Certificates and Qualified Certificate, the Subscriber's organization name changes,
- In case of a Qualified Certificate, the activation codes of the SSCD are lost or compromised,
- The information within the Certificate is incorrect or has changed, or
- The Subscriber requests revocation of the Certificate in accordance with CPS § 3.4,
- The private key is corrupt.

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

Getronics PinkRoccade Subscriber Agreements require end-user Subscribers to immediately notify Getronics PinkRoccade of a known or suspected compromise of its private key in accordance with the procedures in CPS § 4.4.3.1.

4.4.1.2 Circumstances for Revoking CA, RA, or Infrastructure Certificates Getronics PinkRoccade will revoke CA, RA, or infrastructure Certificates if:

- Getronics PinkRoccade discovers or has reason to believe that there has been a compromise of the CA, RA, or infrastructure private key,
- The agreement between the CA or RA with Getronics PinkRoccade has been terminated,
- Getronics PinkRoccade discovers or has reason to believe that the Certificate was issued in a
 manner not materially in accordance with the procedures required by this CPS, the Certificate was
 issued to an entity other than the one named as the Subject of the Certificate, or the Certificate was
 issued without the authorization of the entity named as the Subject of such Certificate,
- Getronics PinkRoccade determines that a material prerequisite to Certificate issuance was neither satisfied nor waived, or
- The CA or RA requests revocation of the Certificate.

Getronics PinkRoccade requires that Managed PKI Customers, and ASB Customers notify Getronics PinkRoccade when revocation is required in accordance with the procedures in CPS § 4.4.3.1.

4.4.2 Who Can Request Revocation

4.4.2.1 Who Can Request Revocation of an End-User Subscriber Certificate
The following entities may request revocation of an end-user Subscriber Certificate:

- Getronics PinkRoccade or the Customer that approved the Subscriber's Certificate Application may request the revocation of any end-user Subscriber or Administrator Certificates in accordance with CPS § 4.4.1.1.
- Individual Subscribers may request revocation of their own individual Certificates.
- In the case of organizational Certificates, only a duly authorized representative of the organization is entitled to request the revocation of Certificates issued to the organization.
- An ASB Customer is entitled to initiate the revocation of Certificates issued by its CA.
- In case of a Qualified Certificate, the Contact person is entitled to request for revocation
- In case of a Qualified Certificate, any Relying Party is entitled to notify Getronics PinkRoccade of a circumstance for revocation of a particular Qualified Certificate
- A duly authorized representative of Getronics PinkRoccade or an Managed PKI Customer whose Administrator received an Administrator Certificate is entitled to request the revocation of an Administrator's Certificate.

4.4.2.2 Who Can Request Revocation of a CA, RA, or Infrastructure Certificate The following entities may request revocation of a CA, RA, or infrastructure Certificate:

- Only Getronics PinkRoccade is entitled to request or initiate the revocation of the Certificates issued to its own CAs, RAs, or infrastructure components.
- VeriSign and where subordinate to Getronics PinkRoccade, Getronics PinkRoccade may initiate the revocation of any Managed PKI Customer, or ASB Customer CA, RA, or infrastructure Certificate in accordance with CPS § 4.4.1.2.



 Processing Centers, Managed PKI Customers, and ASB Customers are entitled, through their duly authorized representatives, to request the revocation of their own CA, RA, and infrastructure Certificates.

4.4.3 Procedure for Revocation Request

4.4.3.1 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
PinkRoccade or the Customer approving the Subscriber's Certificate Application, who in turn will initiate
revocation of the certificate promptly. For Managed PKI customers, the Subscriber is required to
communicate the request to the Managed PKI Administrator who will communicate the revocation request to
Getronics PinkRoccade for processing. Communication of such revocation request shall be in accordance
with CPS § 3.4.

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

CAs and RAs shall process requests and reports relating to revocation upon receipt. The Subscriber whose Certificate was revoked shall be informed of the revocation. Certificates that are revoked shall not be reinstated as valid Certificates. Certificates that are revoked will not be reinstated as valid Certificates.

4.4.3.2 Procedure for Requesting the Revocation of a Qualified Certificate See § 3.4.1 for the detailed description of the revocation procedure of Qualified Certificates.

4.4.3.3 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 PinkRoccade. Getronics PinkRoccade will then revoke the Certificate. Getronics PinkRoccade may also initiate CA or RA Certificate revocation.

4.4.4 Revocation Request Grace Period

Revocation requests must be submitted as promptly as possible within a commercially reasonable period of time.

4.4.5 Circumstances for Suspension

Getronics PinkRoccade does not generally offer suspension services for CA or end-user Subscriber Certificates. Premium Validation Service services for OCSP and enables suspension of end-user Certificates. Premium Validation Service may be offered on Customer request.

4.4.6 Who Can Request Suspension

Not applicable.

4.4.7 Procedure for Suspension Request

Not applicable.

4.4.8 Limits on Suspension Period

Not applicable.

4.4.9 CRL Issuance Frequency

Getronics PinkRoccade publishes CRLs showing the revocation of Getronics PinkRoccade Certificates and offers status checking services. CRLs for CAs that issue end-user Subscriber Certificates are published at least once per day. CRLs for CAs that only issue CA Certificates are published quarterly and also whenever a CA Certificate is revoked. Expired Certificates are removed from the CRL starting thirty (30) days after the Certificate's expiration. CRLs are signed either by the CA that issued the Certificate or by another authority of the CA meeting the requirements of CP § 6 and EDP § 6. A new CRL may be published before the stated time of the next CRL to be issued.

4.4.10 Certificate Revocation List Checking Requirements



Relying Parties must check the status of Certificates on which they wish to rely. One method by which Relying Parties may check Certificate status is by consulting the most recent CRL published by the CA that issued the Certificate on which the Relying Party wishes to rely.

- For VeriSign Class 2-3 PCAs, CRLs are posted in the VeriSign repository at http://crl.verisign.com
- For Managed PKI Lite Customer CAs, CRLs are posted at http://pki.pinkroccade.com/crl/
- For Managed PKI Customer CAs and Qualified Certificates, CRLs are posted in customer-specific repositories, the location of which is communicated to the Managed PKI customer and/or is incorporated in the Certificate via a CRL Distribution Pointer

4.4.11 On-Line Revocation/Status Checking Availability

In addition to publishing CRLs, Getronics PinkRoccade provides Certificate status information through query functions in the Getronics PinkRoccade repository. OCSP responses are generated by a central OCSP responder, located at http://ocsp.pinkroccade.com

Certificate status information is available though web-based query functions accessible through the Getronics PinkRoccade Repository at https://mpki.pinkroccade.com/sei/search.htm (for Individual) or at: https://pki.pinkroccade.com/ssl/services/server/search.htm (for Server Certificates).

Getronics PinkRoccade also provides OCSP Certificate status information. Managed PKI Customers who contract for OCSP services may check Certificate status through the use of OCSP. The URL for the relevant OCSP Responder is communicated to the Managed PKI Customer and/or may be incorporated in the Certificate.

4.4.12 On-Line Revocation Checking Requirements

If a Relying Party does not check the status of a Certificate on which the Relying Party wishes to rely by consulting the most recent relevant CRL, the Relying Party must check Certificate status using one of the applicable methods specified in CPS § 4.4.11.

4.4.13 Other Forms of Revocation Advertisements Available No stipulation.

4.4.14 Checking Requirements for Other Forms of Revocation Advertisements No stipulation.

4.4.15 Special Requirements Regarding Key Compromise

In addition to the procedures described in CPS §§ 4.4.9 – 4.4.14, Getronics PinkRoccade uses commercially reasonable efforts to notify potential Relying Parties if Getronics PinkRoccade discovers, or has reason to believe, that there has been a Compromise of the private key of a Getronics PinkRoccade CA.

4.5 Security Audit Procedures

4.5.1 Types of Events Recorded

Getronics PinkRoccade 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, rekey, 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 PinkRoccade 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 PinkRoccade 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 PinkRoccade 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.

4.5.2 Frequency of Processing Log

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

Audit log processing consists of a review of the audit logs and documentation for all significant events in an audit log summary. Audit log reviews include a verification that the log has not been tampered with, 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 be documented.

4.5.3 Retention Period for Audit Log

Audit logs are retained onsite at least two (2) months after processing and thereafter archived in accordance with CPS § 4.6.2.

4.5.4 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.

4.5.5 Audit Log Backup Procedures

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

4.5.6 Audit Collection System

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

4.5.7 Notification to Event-Causing Subject

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

4.5.8 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 in accordance with the requirements of the Security and Audit Requirements Guide. An annual LSVA serves as an input into the annual Compliance Audit.

4.6 Records Archival

4.6.1 Types of Events Recorded

In addition to the audit logs specified in CPS § 4.5, Getronics PinkRoccade maintains records that include documentation of:

- Getronics PinkRoccade's compliance with the CPS and other obligations under its agreements with their Subscribers, and
- actions and information that are material to each Certificate Application and to the creation, issuance, use, revocation, expiration, and rekey or renewal of all Certificates it issues from the Getronics PinkRoccade Processing Center.

Getronics PinkRoccade's records of Certificate life cycle events include:

- the identity of the Subscriber named in each Certificate,
- the identity of persons requesting Certificate revocation,
- other facts represented in the Certificate,
- time stamps, and
- certain foreseeable material facts related to issuing Certificates including, but not limited to, information relevant to successful completion of a Compliance Audit under CPS § 2.7.

Records may be maintained electronically or in hard copy, provided that such records are accurately and completely indexed, stored, preserved, and reproduced.

4.6.1.1 Additional recording of Events for Qualified Certificates

Getronics PinkRoccade, Managed PKI Customers, ASB Providers performing front-end functions, retain the following evidence relating to the identity of Subscribers in connection with Certificate Applications for Qualified Certificates:

- The types of documents presented by Certificate Applicants in connection with their Certificate Applications;
- A record of unique identification data, numbers, or a combination thereof (e.g., a Certificate Applicant's passport, national identification card number) or other identification documents, if applicable;
- The identity of the entity that receives and accepts Certificate Applications; and
- A validation plan showing the methods used to validate identification documents.

In addition, Getronics PinkRoccade, Managed PKI Customers, and ASB Providers approving Certificate Applications for Qualified Certificates retain records of the following information:

- The storage location of Certificate Applications and identification documents, including any signed Subscriber Agreements, and
- Any specific choices indicated on Subscriber Agreements, such as consent to publish the Certificate, if it is not already indicated in the text of such Subscriber Agreements.

4.6.2 Retention Period for Archive

Records associated with a Certificate are retained for at least the time periods set forth below following the date the Certificate expires or is revoked:

- Ten (10) years for Class 2 Certificates, and
- Thirty (30) years for Class 3 Certificates.

If necessary, Getronics PinkRoccade may implement longer retention periods in order to comply with applicable laws.

Qualified Certificates

Records associated with a Qualified Certificate are retained for at least a time period of seven (7) years after the date of revocation or expiry of that Qualified Certificate. For legal purposes, the Qualified Certificate itself shall be retained during that period, as well as:



Records demonstrating proper verification of the identity and attributes of the subject named in the Qualified Certificate, and Records enabling reconstruction of the issuance and revocation of the Qualified Certificate.

4.6.3 Protection of Archive

Getronics PinkRoccade protects its archived records compiled under CPS § 4.6.1 so that only authorized Trusted Persons are permitted to access archived data. Electronically archived data is protected against unauthorized viewing, modification, deletion, or other tampering through the implementation of appropriate physical and logical access controls. The media holding the archive data and the applications required to process the archive data are maintained to ensure that the archived data can be accessed for the time period set forth in CPS § 4.6.2.

4.6.4 Archive Backup Procedures

Getronics PinkRoccade incrementally backs up electronic archives of its issued Certificate information on a daily basis and performs full backups on a weekly basis. Copies of paper-based records compiled under CPS § 4.6.1 are maintained in an off-site disaster recovery facility in accordance with CPS § 4.8.

4.6.5 Requirements for Time-Stamping of Records

Certificates, CRLs, and other revocation database entries contain time and date information. It should be noted that, in contrast with the Getronics PinkRoccade's Digital Notarization Service, such time information is not cryptographic-based (see CPS § 1.1.2.2.2).

4.6.6 Procedures to Obtain and Verify Archive Information See CPS § 4.6.3.

4.7 Key Changeover

Getronics PinkRoccade CA key pairs are retired from service at the end of their respective maximum lifetimes as defined in CPS § 6.3.2. Getronics PinkRoccade 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 in accordance with CPS § 6.1.

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 PinkRoccade's 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") where 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.

4.8 Disaster Recovery and Key Compromise

Getronics PinkRoccade 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 PinkRoccade has implemented disaster recovery procedures described in CPS § 4.8.2 and Key Compromise response procedures described in CPS § 4.8.3. Getronics PinkRoccade's Compromise and disaster recovery procedures have been developed to minimize the potential impact of such an occurrence and restore Getronics PinkRoccade's operations within a commercially reasonable period of time.

4.8.1 Corruption of Computing Resources, Software, and/or Data

In the event of the corruption of computing resources, software, and/or data, such an occurrence is reported to Getronics PinkRoccade Security and Getronics PinkRoccade's incident handling procedures are enacted. Such procedures require appropriate escalation, incident investigation, and incident response. If necessary, Getronics PinkRoccade's key compromise or disaster recovery procedures will be enacted.



4.8.2 Disaster Recovery

Getronics PinkRoccade 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 PinkRoccade has implemented detailed change and incident management procedures to allow for controlled and accountable recovery from system and application disasters.

Regarding disaster recovery at site level, Getronics PinkRoccade will work with VeriSign to comply with the VeriSign Disaster Recovery Requirements for the VeriSign Trust Network.

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

4.8.3 Key Compromise

Upon the suspected or known Compromise of a Getronics PinkRoccade CA, Getronics PinkRoccade infrastructure or Customer CA private key, Getronics PinkRoccade's 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 PinkRoccade management representatives, assesses the situation, develops an action plan, and implements the action plan with approval from Getronics PinkRoccade 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 PinkRoccade repository in accordance with CPS § 4.4.9,
- 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 § 4.7, except where the CA is being terminated in accordance with CPS § 4.9.

4.8.4 Secure facility after a natural or other type of disaster

Getronics PinkRoccade will restore certain Processing Center operations as soon as possible following any kind of natural or man-made disaster and all functions within one week. Such operations include:

- Certificate issuance (including publication for purposes of dissemination).
- · Certificate revocation, and
- publication of revocation information.

See CPS § 4.8.2 for more details about Disaster Recovery.

4.9 CA Termination

4.9.1 Termination of a Getronics PinkRoccade Managed PKI Customer CA

In the event that it is necessary for a Getronics PinkRoccade Managed PKI 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 PinkRoccade,
- The preservation of the CAs archives and records for the time periods required in CPS § 4.6 by Getronics PinkRoccade,
- The continuation of Subscriber and customer support services by Getronics PinkRoccade,
- The continuation of revocation services, such as the issuance of CRLs or the maintenance of online status checking services by Getronics PinkRoccade,
- The revocation of unexpired unrevoked certificates of end-user Subscribers and subordinate CAs, if necessary, by Getronics PinkRoccade,



- Disposition of the CAs private key and the hardware tokens containing such prvate key by Getronics PinkRoccade, and
- Provisions needed for the transition of the CAs services to a successor CA, if necessary.

4.9.2 Termination of a Getronics PinkRoccade CA

In the event that it is necessary for Getronics PinkRoccade to cease operation, Getronics PinkRoccade has developed a CA Termination Plan, laid down in the CA Termination Handbook, which is a propriatary Getronics PinkRoccade document with confidential status. As part of the Termination Plan, Getronics PinkRoccade 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 PinkRoccade,
- The preservation of the CAs archives and records for the time periods required in CPS § 4.6,
- The continuation of Subscriber and customer support services by VeriSign,
- The continuation of revocation services, such as the issuance of CRLs or the maintanance of online status checking services by VeriSign,
- The revocation of unexpired unrevoked certificates of end-user Subscribers and subordinate CAs, if necessary,
- 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 such private key, and
- Provisions needed for the transition of the CAs services to a successor CA.

The above items are worked out in detail in the aforementioned "Handbook CA Termination" and in the agreements between Getronics PinkRoccade and VeriSign.



5. Physical, Procedural, and Personnel Security Controls

This CPS supports the security requirements of the Getronics PinkRoccade Security Policy.

The Getronics PinkRoccade security policies include administrative and management procedures that are adequate and correspond to recognized standards. Also, the security infrastructure needed to implement the security policy and manage security is maintained at all times. Any changes to the security policy or infrastructure implementing it that will impact the level of security provided will be approved by a management forum of the CA or RA in charge of security.

CA and RA security personnel are responsible for implementing their respective security policies. Such personnel is organizationally separate from personnel performing normal operations In addition, security personnel is responsible for security oversight over the performance of:

- Operational procedures and responsibilities;
- Secure systems planning and acceptance;
- Protection from malicious software;
- Housekeeping;
- Network management;
- Active monitoring of audit journals, event analysis, and followup;
- Media handling and security; and
- Data and software exchange.

Some of above mentioned functions may be delegated to non-specialist operational personnel under the oversight of security personnel in accordance with the applicable security policy. Ultimately, however, senior management of the CA or RA has the responsibility for ensuring that its practices, including security practices, are properly implemented.

5.1 Physical Controls

5.1.1 Site Location and Construction

Getronics PinkRoccade's CA and RA operations are conducted within Getronics PinkRoccade's facilities in Apeldoorn, Netherlands, which meet the requirements of Security and Audit Requirements. All Getronics PinkRoccade CA and RA operations are conducted within a physically protected environment designed to deter, prevent, and detect covert or overt penetration.

Getronics PinkRoccade's primary facilities have up to six physical security tiers as described in CPS § 5.1.2 with:

- RA validation operations performed within Tier 3
- CA functions performed within Tier 4
- Sensitive servers are located in Tier 4
- Online CA cryptographic modules stored in Tier 5
- Offline CA cryptographic modules stored in Tier 7.

Managed PKI Customers must ensure that their secure facilities meet the requirements in the Enterprise Security Guide.

5.1.2 Physical Access

Getronics PinkRoccade CA systems are protected by four tiers of physical security, with access to the lower tier required before gaining access to the higher tier. In addition, the physical security system includes three additional tiers for key management security. The characteristics and requirements of each tier are described in Table 15 below.

CAs pregenerating keys on SSCDs generate such keys within Tier 4 space and store them in Tier 5 space, prior to distributing such tokens.



Tier	Description	Access Control Mechanisms
Physical Security Tier 1	Physical security tier one refers to the outermost physical security barrier for the facility.	Access to this tier requires the use of a proximity card employee badge. Physical access to tier one is automatically logged and video recorded.
Physical Security Tier 2	Tier two includes common areas including restrooms and common hallways.	Tier two enforces individual access control for all persons entering the common areas of the CA facility through the use of a proximity card employee badge. Physical access to tier two is automatically logged.
Physical Security Tier 3	Tier three is the first tier at which sensitive CA operational activity takes place. Sensitive CA operational activity is any activity related to the lifecycle of the Certification process such as authentication, verification, and issuance.	Tier three enforces individual access control through the use of two factor authentication including biometrics. Unescorted personnel, including untrusted employees or visitors, are not allowed into a tier-three secured area. Physical access to tier three is automatically logged.
Physical Security Tier 4	Tier four is the tier at which especially sensitive CA operations occur. There are two distinct tier four areas: the online tier 4 data center and the offline tier 4 key ceremony room.	The tier four data center enforces individual access control and the key ceremony room enforces dual control, each through the use of two factor authentication including biometrics. Individuals approved for unescorted tier four access must satisfy the Trusted Employee Policy. Physical access to tier four is automatically logged.
Key Management Tiers 5-7	Key Management tiers five through seven serve to protect both online and offline storage of CSUs and keying material.	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 Getronics PinkRoccade's segregation of duties requirements. The opening and closing of cabinets or containers in these tiers is logged for audit purposes. Progressively restrictive physical access privileges control access to each tier.

Table 15 – Physical Security Tiers

5.1.3 Power and Air Conditioning

Getronics PinkRoccade's secure facilities are equipped with primary and backup:

- power systems to ensure continuous, uninterrupted access to electric power and
- heating/ventilation/air conditioning systems to control temperature and relative humidity.

5.1.4 Water Exposures

Getronics PinkRoccade has taken reasonable precautions to minimize the impact of water exposure to Getronics PinkRoccade systems, including but not limited to, the choice for a geographical location which is above sealevel.

5.1.5 Fire Prevention and Protection

Getronics PinkRoccade has taken reasonable precautions to prevent and extinguish fires or other damaging exposure to flame or smoke. Getronics PinkRoccade's 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 is stored within Getronics PinkRoccade facilities or in a secure off-site storage facility with appropriate physical and logical



access controls designed to limit access to authorized personnel and protect such media from accidental damage (e.g., water, fire, and electromagnetic).

5.1.7 Waste Disposal

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

5.1.8 Off-Site Backup

Getronics PinkRoccade performs routine backups of critical system data, audit log data, and other sensitive information.

5.2 Procedural Controls

5.2.1 Trusted Roles

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

- the validation of information in Certificate Applications;
- the acceptance, rejection, or other processing of Certificate Applications, revocation requests, or renewal requests, or enrollment information;
- the issuance, or revocation of Certificates, including personnel having access to restricted portions of its repository;
- or the handling of Subscriber information or requests.

Trusted Persons include, but are not limited to:

- customer service personnel,
- cryptographic business operations personnel,
- security personnel,
- · system administration personnel,
- designated engineering personnel, and
- executives that are designated to manage infrastructural trustworthiness.

Getronics PinkRoccade 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 of CPS § 5.3.

5.2.2 Number of Persons Required Per Task

Getronics PinkRoccade maintains a policy and rigorous control procedures to ensure segregation of duties based on job responsibilities. The most sensitive tasks, such as access to and management of CA cryptographic hardware (cryptographic signing unit or CSU) and associated key material, require multiple Trusted Persons.

These internal control procedures are designed to ensure that at a minimum, two trusted personnel are required to have either physical or logical access to the device. Access to CA cryptographic hardware is strictly enforced by multiple Trusted Persons throughout its lifecycle, from incoming receipt and inspection to final logical and/or physical destruction. Once a module is activated with operational keys, further access controls are invoked to maintain split control over both physical and logical access to the device. Persons with physical access to modules do not hold "Secret Shares" and vice versa. Requirements for CA private key activation data and Secret Shares are specified in CPS § 6.2.7.

Other operations such as the validation and issuance of Class 3 Certificates require the participation of at least 2 Trusted Persons.

5.2.3 Identification and Authentication for Each Role

For all personnel seeking to become Trusted Persons, verification of identity is performed through the personal (physical) presence of such personnel before Trusted Persons performing Getronics PinkRoccade



HR or security functions and a check of well-recognized forms of identification (e.g., passports and driver's licenses). Identity is further confirmed through the background checking procedures in CPS § 5.3.1.

Getronics PinkRoccade ensures that personnel have achieved Trusted Status and departmental approval has been given before such personnel are:

- issued access devices and granted access to the required facilities;
- issued electronic credentials to access and perform specific functions on Getronics PinkRoccade CA, RA, or other IT systems.

5.3 Personnel Controls

5.3.1 Background, Qualifications, Experience, and Clearance Requirements

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 any government clearances, if any, necessary to perform Certification services under government contracts. Background checks are repeated at least every 5 years for personnel holding Trusted Positions.

5.3.2 Background Check Procedures

Prior to commencement of employment in a Trusted Role, Getronics PinkRoccade conducts background checks which include the following:

- · confirmation of previous employment,
- check of professional reference,
- · confirmation of the highest or most relevant educational degree obtained,
- search of criminal records (local, provincial, and national).

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

The factors revealed in a background check that may be considered grounds for rejecting candidates for Trusted Positions or for taking action against an existing Trusted Person generally include the following:

- Misrepresentations made by the candidate or Trusted Person,
- Highly unfavourable or unreliable personal references,
- Certain criminal convictions.

Reports containing such information are evaluated by human resources and senior management, who determine the appropriate course of action in light of the type, magnitude, and frequency of the behavior uncovered by the background check. Such actions may include measures up to and including the cancellation of offers of employment made to candidates for Trusted Positions.

The use of information revealed in a background check to take such actions is subject to the applicable federal, state, and local laws.

5.3.3 Training Requirements

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

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

- · Basic PKI concepts,
- Job responsibilities,
- Getronics PinkRoccade security and operational policies and procedures,
- Use and operation of deployed hardware and software,
- Incident and Compromise reporting and handling, and
- Disaster recovery and business continuity procedures.



5.3.4 Retraining Frequency and Requirements

Getronics PinkRoccade provides refresher training and updates to its personnel to the extent and frequency required to ensure that such personnel maintain the required level of proficiency to perform their job responsibilities competently and satisfactorily. Periodic security awareness training is provided on an ongoing basis.

5.3.5 Job Rotation Frequency and Sequence

No stipulation.

5.3.6 Sanctions for Unauthorized Actions

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

5.3.7 Contracting Personnel 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 a Getronics PinkRoccade employees in a comparable position.

Independent contractors and consultants who have not completed the background check procedures specified in CPS § 5.3.2 are permitted access to Getronics PinkRoccade's secure facilities only to the extent they are escorted and directly supervised by Trusted Persons.

5.3.8 Documentation Supplied to Personnel

Getronics PinkRoccade personnel involved in the operation of Getronics PinkRoccade's PKI services are required to read this CPS, the VTN CP, and the Getronics PinkRoccade Security Policy. Getronics PinkRoccade provides its employees the requisite training and other documentation needed to perform their job responsibilities competently and satisfactorily.



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 and Issuing Root CAs, the cryptographic modules used for key generation meet the requirements of FIPS 140-1 level 3. For other CAs (including Getronics PinkRoccade CAs and Managed PKI Customer 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 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 PinkRoccade 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.

Managed PKI Customers generate the key pair used by their Automated Administration servers. Getronics PinkRoccade recommends that Automated Administration server key pair generation be performed using a FIPS 140-1 level 2 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. For server Certificates, the Subscriber typically uses the key generation utility provided with the web server software.

6.1.2 Private Key Delivery to Entity

End-user Subscriber key pairs are typically generated by the end-user Subscriber; therefore in such cases, private key delivery to a Subscriber is not applicable.

Where RA or end-user Subscriber key pairs are pre-generated by Getronics PinkRoccade on hardware tokens or smart cards, such devices are distributed to the RA or end-user Subscriber using a commercial delivery service and tamper evident packaging. The required activation data required to activate the device is communicated to the RA or end-user Subscriber using an out of band process. The distribution of such devices is logged by Getronics PinkRoccade.

For Managed PKI 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 PinkRoccade 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 PinkRoccade, this requirement is not applicable.

6.1.4 CA Public Key Delivery to Users

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



Getronics PinkRoccade 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 PinkRoccade CA Certificates may also be downloaded from the Getronics PinkRoccade LDAP Directory at directory.pinkroccade.com.

6.1.5 Key Sizes

Getronics PinkRoccade CA key pairs are at least 1024 bit RSA, except for the legacy RSA Secure Server CA whose key pair is 1000 bit RSA. VeriSign's third generation (G3) PCAs have 2048 bit RSA key pairs. Getronics PinkRoccade recommends that Registration Authorities and end-user Subscribers generate 1024 bit RSA key pairs, but currently permits the use of 512 bit RSA key pairs to support certain legacy applications and web servers.

6.1.6 Public Key Parameters Generation

Not applicable.

6.1.7 Parameter Quality Checking

Not applicable.

6.1.8 Hardware/Software Key Generation

Getronics PinkRoccade generates its CA pairs keys in appropriate hardware cryptographic modules in accordance with CPS § 6.2.1. RA and end-user Subscriber key pairs may be generated in hardware or software.

6.1.8.1 Hardware/Software Key Generation for Qualified Certificates

The generation of keys of Qualified Certificate shall take place on the SSCD hardware device.

6.1.9 Key Usage Purposes

For X.509 Version 3 Certificates, Getronics PinkRoccade generally populates the KeyUsage extension of Certificates in accordance with RFC 2459: Internet X.509 Public Key Infrastructure Certificate and CRL Profile, January 1999. The KeyUsage extension in VeriSign X.509 Version 3 Certificates is populated in accordance with Table 16 below with the following exceptions:

- The Key Usage extension is not used for Global Server IDs and may be used for Class 2 individual Certificates.
- The criticality of the KeyUsage extension is set to TRUE for the Getronics PinkRoccade Class 3 Managed PKI Authentication Services Bureau CA.
- Setting the nonrepudiation bit for dual key pair signature Certificates through Managed PKI Key Manager is permissible.
- The criticality of the KeyUsage extension may be set to TRUE for other Certificates in the future.

		CAs	Class 3 Server End-User Subscribers; Automated Administration tokens	Dual Key Pair Signature (Managed PKI Key Manager)	Dual Key Pair Encipherment (Managed PKI Key Manager)
Cr	iticality	FALSE	FALSE	FALSE	FALSE
0	digitalSignature	Clear	Set	Set	Clear
1	nonRepudiation	Clear	Clear	Clear	Clear
2	keyEncipherment	Clear	Set	Clear	Set
3	dataEnciphermen t	Clear	Clear	Clear	Clear
4	keyAgreement	Clear	Clear	Clear	Clear
5	KeyCertSign	Set	Clear	Clear	Clear
6	CRLSign	Set	Clear	Clear	Clear
7	EncipherOnly	Clear	Clear	Clear	Clear
8	DecipherOnly	Clear	Clear	Clear	Clear

Table 16 – Settings for KeyUsage Extension



Certain CA and end-user Subscriber Certificates are X.509 Version 1 Certificates (see CPS § 7.1.1) and thus do not support the use of the Key Usage extension.

6.2 Private Key Protection

Getronics PinkRoccade has implemented a combination of physical, logical, and procedural controls to ensure the security of Getronics PinkRoccade, Managed PKI Customer, and ASB Customer CA private keys. Logical and procedural controls are described in CPS § 6.2. Physical access controls are described in CPS § 5.1.2. Subscribers are required by contract to take necessary precautions to prevent the loss, disclosure, modification, or unauthorized use of private keys.

6.2.1 Standards for Cryptographic Modules

For PCA and Issuing Root CA key pair generation and CA private key storage, VeriSign and Getronics PinkRoccade uses hardware cryptographic modules that are certified at or materially meet the requirements of FIPS 140-1 Level 3. For other CAs, Getronics PinkRoccade uses hardware cryptographic modules that are certified to at least FIPS 140-1 Level 2.

6.2.1.1 Standards for Cryptographic Modules for Qualified Certificates

Getronics PinkRoccade 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 Policy Document, based on a risk analysis and taking
 into account physical and other non-technical security measures.

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

Getronics PinkRoccade has implemented technical and procedural mechanisms that require the participation of multiple trusted individuals to perform sensitive CA cryptographic operations. Getronics PinkRoccade 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 (n) out of the total number of Secret Shares created and distributed for a particular hardware cryptographic module (m) is required to activate a CA private key stored on the module.

Table 17 below shows the threshold number of shared required and the total number of shares distributed for the different types of Getronics PinkRoccade CAs. It should be noted that the number of shares distributed for disaster recovery tokens is 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 CPS § 6.4.2.

Entity	Required Secret Shares to Enable CA's Private Key to Sign End-User Subscriber Certificates	Required Secret Shares to Sign CA's Certificate	Total Secret Shares Distributed	Disaster Recovery Shares	
				Shares Needed	Total Shares
Class 2 CA and subordinate CAs	3	3	9	3	5
Class 3 CA and subordinate CAs	3	3	9	3	5

Table 17 - Secret Share Distribution And Thresholds

6.2.3 Private Key Escrow



Getronics PinkRoccade does not escrow CA, RA or end-user Subscriber private keys with any third party for purposes of access by law enforcement.

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

- For each end user key pair backed up, the Managed PKI Key Manager randomly generates a
 symmetric key used to encrypt the backed up private key at the Customer site. This encrypted private
 key is then stored in the local database at the Customer site. The symmetric key is also encrypted,
 using a public key belonging to the Getronics PinkRoccade key recovery service, and stored in the
 local database at the Customer site.
- When an end user's backed up private key must be recovered, the Managed PKI administrator identifies the appropriate key using the key history stored by the Key Manager at the Customer site, and sends the corresponding encrypted symmetric key to the Getronics PinkRoccade Recovery Service. The Getronics PinkRoccade Key Recovery Service decrypts and returns the symmetric key, which is then used locally to decrypt the end user's private key from the database. This key and the corresponding certificate can then be redistributed to the end user.

6.2.3.1 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 § 6.2.3, 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.

6.2.4 Private Key Backup

Getronics PinkRoccade 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 CPS § 6.2.1. CA private keys are copied to backup hardware cryptographic modules in accordance with CPS § 6.2.6.

Modules containing onsite backup copies of CA private keys are subject to the requirements of CPS §§ 5.1, 6.2.1. Modules containing disaster recovery copies of CA private keys are subject to the requirements of CPS § 4.8.2.

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

6.2.5 Private Key Archival

When Getronics PinkRoccade 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 CPS § 6.2.1. 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 CPS § 6.2.9.

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

6.2.6 Private Key Entry into Cryptographic Module

Getronics PinkRoccade generates CA key pairs on the hardware cryptographic modules in which the keys will be used. In addition, Getronics PinkRoccade 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.

6.2.7 Method of Activating Private Key

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



6.2.7.1 End-User Subscriber Private Keys

This section applies the VTN Standards for protecting activation data for end-user Subscribers' private keys to Getronics PinkRoccade's Subdomain. In addition, Subscribers have the option of using enhanced private key protection mechanisms available today including the use of smart cards, biometric access devices, and other hardware tokens to store private keys. The use of two factor authentication mechanisms (e.g., token and passphrase, biometric and token, or biometric and passphrase) is encouraged.

6.2.7.1.1 Class 2 Certificates

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

- Use a password in accordance with CPS § 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, or a password in conjunction with the Getronics PinkRoccade Roaming Service; 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.

6.2.7.1.2 Class 3 Certificates Other Than Administrator Certificates

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

- Use a smart card, other cryptographic hardware device, biometric access device, password (in conjunction with the Getronics PinkRoccade Roaming Service), 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 or server and its associated private key without the Subscriber's
 authorization.

Use of a password along with a smart card, other cryptographic hardware device, or biometric access device in accordance with CPS § 6.4.1 is recommended. When deactivated, private keys shall be kept in encrypted form only.

6.2.7.1.3 Qualified Certificates

The EDP Private Key protection is for Subscribers with:

 Qualified Certificates - In addition to the requirements of CPS § 6.2.7.1, Subscribers of Qualified Certificates 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).

6.2.7.1.4 Administrators

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

- Use a smart card, biometric access device, or password in accordance with CPS § 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.

Use of a password along with a smart card, biometric access device, in accordance with CPS § 6.4.1 is recommended to authenticate the Administrator before the activation of the private key.

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

6.2.7.1.5 Managed PKI Administrators using a Cryptographic Module (with Automated Administration or with Managed PKI Key Manager Service)

The VTN 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 CPS § 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.

6.2.7.2 Private Keys Held by Getronics PinkRoccade

Getronics PinkRoccade CA private keys are activated by a threshold number of Shareholders supplying their activation data (tokens or passphrases) in accordance with CPS § 6.2.2. For Getronics PinkRoccade's offline CAs, the CA private key is activated for one session (e.g., for the Certification of a Subordinate CA or an instance where a PCA signs a CRL) after which it is deactivated and the module is returned to secure storage. For Getronics PinkRoccade's online CAs, the CA private key is activated for an indefinite period and the module remains online in the production data center until the CA is taken offline (e.g., for system maintenance). Getronics PinkRoccade Shareholders are required to safeguard their Secret Shares and sign an agreement acknowledging their Shareholder responsibilities.

6.2.8 Method of Deactivating Private Key

Getronics PinkRoccade CA private keys are deactivated upon removal from the token reader. Getronics PinkRoccade RA private keys (used for authentication to the RA application) are deactivated upon system log off. Getronics PinkRoccade 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 smart card from the smart card 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 CPS §§ 2.1.3, 6.4.1.

6.2.9 Method of Destroying Private Key

At the conclusion of a Getronics PinkRoccade's CA's operational lifetime, one or more copies of the CA private key are archived in accordance with CPS § 6.2.5. Remaining copies of the CA private key are securely destroyed. In addition, archived CA private keys are securely destroyed at the conclusion of their archive periods. CA key destruction activities require the participation of multiple trusted individuals.

Where required, Getronics PinkRoccade destroys CA private keys in a manner that reasonably ensures that there are no residuals remains of the key that could lead to the reconstruction of the key. Getronics PinkRoccade utilizes 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.

6.3 Other Aspects of Key Pair Management

6.3.1 Public Key Archival

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

6.3.2 Usage Periods for the Public and Private Keys

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 private keys may continue to be used for decryption and public keys may continue to be used for signature verification. The maximum Operational Periods for Getronics PinkRoccade Certificates for Certificates issued on or after the effective date of this CPS are set forth in Table 18 below.

In addition, Getronics PinkRoccade 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
Self-signed Root CA (1024 bits)	Up to 30 years



Certificate Issued By:	Validity Period	
Self-signed Root CA (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	
Offline intermediate CA to online CA	Generally 5 years but up to 10 years after renewal ⁷	
CA to end-user Subscriber	Normally up to 2 years, but up to 5 years under the conditions described below	

Table 18 – Certificate Operational Periods

In terms of Section 6.3.2 of the VTN CP, the Getronics PinkRoccade PMA has approved an exception to extend a limited number CAs beyond the specified limits, in order to ensure uninterrupted PKI services during CA key pair migration. Affected CAs shall not be extended beyond December 31, 2010 in terms of this exception. Except as noted in this section, Getronics PinkRoccade 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 smart card,
- Subscribers are annually required to undergo reauthentication procedures under CPS § 3.1.9,
- Subscribers shall annually prove possession of the private key corresponding to the public key within the Certificate,
- If a Subscriber is unable to complete reauthentication procedures under CPS § 3.1.9 successfully or
 is unable to prove possession of such private key when required by the foregoing, the CA shall
 automatically revoke the Subscriber's Certificate.

Getronics PinkRoccade also operates several legacy self-signed issuing root CAs which are part of the VeriSign Trust Network. End-user Subscriber Certificates issued by these CAs meet the requirements for CA to end-user Subscriber Certificates specified in Table 18 above. The requirements for these CAs are described in Table 19 below.

CA Certificate Issued By:	CA Certificate Operational Period	Class of End-User Subscriber Certificates Issued
RSA Secure Server CA (self-signed)	Up to 15 years	Equivalent to VTN Class 3
Commercial Software Publishers CA (self-signed)	Up to 10 years	Equivalent to VTN Class 3
VeriSign Timestamping Root CA (self-signed)	Up to 10 years	Equivalent to VTN Class 3

Table 19 - Requirements for Legacy Issuing Root Cas

6.4 Activation Data

6.4.1 Activation Data Generation and Installation

Activation data (Secret Shares) used to protect tokens containing Getronics PinkRoccade 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 PinkRoccade RAs are required to select strong passwords to protect their private keys. Getronics PinkRoccade's 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;

⁷ 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.



- not be the same as the operator's profile name; and
- not contain a long substring of the user's profile name.

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

6.4.2 Activation Data Protection

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

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

Getronics PinkRoccade 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

See CPS § 6.4.1 and 6.4.2.

6.5 Computer Security Controls

Getronics PinkRoccade performs all CA and RA functions using Trustworthy Systems that meet the requirements of Getronics PinkRoccade's Security and Audit Requirements Guide. Managed PKI Customers must use Trustworthy Systems that meet the requirements of the Enterprise Security Guide.

6.5.1 Specific Computer Security Technical Requirements

Getronics PinkRoccade ensures that the systems maintaining CA software and data files are Trustworthy Systems secure from unauthorized access. In addition, Getronics PinkRoccade 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 PinkRoccade's production network is logically separated from other components. This separation prevents network access except through defined application processes. Getronics PinkRoccade use 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 PinkRoccade require the use of passwords that have a minimum character length and a combination of alphanumeric and special characters. Getronics PinkRoccade requires that passwords be changed on a periodic basis.

Direct access to Getronics PinkRoccade databases supporting the Getronics PinkRoccade repository is limited to Trusted Persons in Getronics PinkRoccade's operations group having a valid business reason for such access.

6.5.2 Computer Security Rating

No stipulation.

6.6 Life Cycle Technical Controls

6.6.1 System Development Controls

Applications are developed and implemented by the Getronics PinkRoccade in accordance with Getronics PinkRoccade systems development and change management standards. Getronics PinkRoccade also provides software to its Managed PKI Customers for performing RA and certain CA functions. Such software is developed in accordance with Getronics PinkRoccade system development standards.



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

6.6.2 Security Management Controls

Getronics PinkRoccade has mechanisms and/or policies in place to control and monitor the configuration of its CA systems. Getronics PinkRoccade creates a hash of all software packages and Getronics PinkRoccade software updates. This hash is to used to verify the integrity of such software manually. Upon installation and periodically thereafter, Getronics PinkRoccade validates the integrity of its CA systems.

6.6.3 Life Cycle Security Ratings

No stipulation.

6.7 Network Security Controls

Getronics PinkRoccade 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 PinkRoccade protects its communications of sensitive information through the use of encryption and digital signatures.

6.8 Cryptographic Module Engineering Controls

Cryptographic modules used by Getronics PinkRoccade and VeriSign meet the requirements specified in CPS § 6.2.1.

6.8.1 Cryptographic Module Engineering Controls for Qualified Certificates

In addition to CPS § 6.8, Getronics PinkRoccade and CAs shall distribute SSCDs to end-user Subscribers that meet the following requirements. First, SSCDs must, by appropriate technical and procedural means, ensure that at least:

- The private key within the SSCD can practically occur only once, and that its secrecy is reasonably assured.
- Such private key cannot, with reasonable assurance, be derived and the signature is protected against forgery using currently-available technology, and
- Such private key can be reliably be protected by the Subscriber against use by others.
- Second, SSCDs must not alter the data to be signed or prevent such data from being presented to
 the signatory prior to the signature process. Third, CAs shall ensure that the SSCDs have been
 determined to meet the requirements of Annex III of the Directive or Dutch law by the applicable
 national body designated pursuant to Article 3(4) the Directive (if any).



7. Certificate and CRL Profile

7.1 Certificate Profile

CPS § 7.1 defines Getronics PinkRoccade's Certificate Profile and Certificate content requirements for VTN Certificates issued under this CPS.

Getronics PinkRoccade Certificates generally conform to (a) ITU-T Recommendation X.509 (1997): Information Technology - Open Systems Interconnection - The Directory: Authentication Framework, June 1997 and (b) RFC 2459: Internet X.509 Public Key Infrastructure Certificate and CRL Profile, January 1999 ("RFC 2459").

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, Getronics PinkRoccade X.509 Certificates contain the basic X.509 Version 1 fields and indicated prescribed values or value constraints in Table 20 below:

Field	Value or Value constraint
Version	See CPS §7.1.1.
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 U.S. Naval Observatory. Encoded in accordance with RFC 2459.
Valid To	Universal Coordinate Time base. Synchronized to Master Clock of U.S. Naval Observatory. Encoded in accordance with RFC 2459. The validity period will be set in accordance with the constraints specified in CPS § 6.3.2.
Subject DN	See CPS § 7.1.4
Subject Public Key	Encoded in accordance with RFC 2459 using algorithms specified in CPS § 7.1.3 and key lengths specified in CPS § 6.1.5.
Signature	Generated and encoded in accordance with RFC 2459

Table 20 - Certificate Profile Basic Fields

7.1.1 Version Number(s)

Getronics PinkRoccade CA and end-user Subscriber Certificates are X.509 Version 3 Certificates.

The following VeriSign CAs use X.509 version 1:

- VeriSign root CA Certificates, including the VeriSign PCAs and other VeriSign root CAs, are X.509
 Version 1 Certificates.
- Certain legacy VeriSign Issuing CA Certificates are X.509 Version 1 Certificates, including.
- Certain Secure Server Certificates are X.509 Version 1 Certificates where the specific web server does not support the use of X.509 Version 3 Certificates.

7.1.2 Certificate Extensions

Where X.509 Version 3 Certificates are used, Getronics PinkRoccade populates Certificates with the extensions required by CPS §§ 7.1.2.1-7.1.2.8. Private extensions are permissible as long as their use is consistent with the VTN CP and this CPS.

7.1.2.1 Key Usage

Where X.509 Version 3 Certificates are used, Getronics PinkRoccade populates the KeyUsage extension in accordance with CPS § 6.1.9. The criticality field of this extension is generally set to TRUE for CA certificates and may be set to either TRUE, or FALSE for end entity Subscriber certificates.



7.1.2.2 Certificate Policies Extension

Getronics PinkRoccade X.509 Version 3 end-user Subscribers Certificates use the Certificate Policies extension. The CertificatePolicies extension is populated with the applicable 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 is set to FALSE.

7.1.2.3 Subject Alternative Names No stipulation.

7.1.2.4 Basic Constraints

Getronics PinkRoccade populates X.509 Version 3 CA Certificates with a BasicConstraints extension with the Subject Type set to CA. End-user Subscriber Certificates are also populated with a BasicConstraints extension with the Subject Type equal to End Entity. The criticality of the Basic Constraints extension is generally set to FALSE, except for the Getronics PinkRoccade Class 3 Managed PKI Authentication Services Bureau CA. The criticality of this extension may be set to TRUE for other Certificates in the future.

Getronics PinkRoccade X.509 Version 3 CA Certificates issued to 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 the online CAs of Managed PKI Customers and Gateway Customers and Getronics PinkRoccade CAs, issuing end-user Subscriber Certificates 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 PinkRoccade makes use of the ExtendedKeyUsage extension for the specific types of Getronics PinkRoccade X.509 Version 3 Certificates listed in Table 21 below. For other types of Certificates, Getronics PinkRoccade does not use the Extended Key Usage extension.

Certificate 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	Secure Server IDs Global Server IDs

Table 21 - Certificates Using the Extended Key Usage Extension

Getronics PinkRoccade populates Certificates with ExtendedKeyUsage extensions in accordance with Table 22 below.

		Class 3 International Server CA	OCSP Responders	Secure Server IDs	Global Server IDs
Cr	iticality	FALSE	FALSE	FALSE	FALSE
0	ServerAuth	Clear	Clear	Set	Clear
1	ClientAuth	Clear	Set	Set	Clear
2	CodeSigning	Clear	Clear	Clear	Clear
3	EmailProtection	Clear	Set	Clear	Clear
4	IpsecEndSystem	Clear	Clear	Clear	Clear
5	IpsecTunnel	Clear	Clear	Clear	Clear
6	IpsecUser	Clear	Clear	Clear	Clear
7	TimeStamping	Clear	Clear	Clear	Clear
8	OCSP Signing	Clear	Set	Clear	Clear
-	Microsoft Server Gated Crypto (SGC) OID: 1.3.6.1.4.1.311.10.3.3	Clear	Clear	Clear	Set
-	Netscape SGC - OID:	Set	Clear	Clear	Set



		Class 3 International Server CA	OCSP Responders	Secure Server IDs	Global Server IDs
	2.16.840.1.113730.4.1				
-	TBD – OID: 2.16.840.1.113733.1.8. 1	Set	Clear	Clear	Clear

Table 22 – Settings for ExtendedKeyUsage Extension

7.1.2.6 CRL Distribution Points

Getronics PinkRoccade X.509 Version 3 Secure Server and Class 2 Individual end-user Subscriber Certificates use 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. The use of CRL Distribution Points will be supported for other Getronics PinkRoccade CAs in the future.

7.1.2.7 Authority Key Identifier

VeriSign populates the Authority Key Identifier extension of X.509 Version 3 end user Subscriber Certificates issued by the VeriSign Commercial Software Publishers CA. The Authority Key Identifier is composed of the 160-bit SHA-1 hash of the public key of the CA issuing the Certificate. The criticality field of this extension is set to FALSE. The use of Authority Key Identifier extension may be supported for other VeriSign CAs in the future.

7.1.2.8 Subject Key Identifier

Where Getronics PinkRoccade populates X.509 Version 3 VTN Certificates with a subjectKeyIdentifier extension, the keyIdentifier based on the public key of the Subject of the Certificate is generated. Where this extension is used, the criticality field of this extension is set to FALSE.

7.1.2.9 Additional Certificate Extension for Qualified Certificates

Qualified Certificates contain a private extension containing an OID identifying the statement stating that the Certificate is issued in accordance with Dutch Law. Such extension conforms to the definition in section 4.2.1(2) of the Qualified Certificate Profile. This extension may be marked as critical or not critical at the option of Getronics PinkRoccade or the CA. At the option of the Getronics PinkRoccade or the CA, the following additional private extensions may be used:

- An extension containing a statement expressing the limit on the value of transactions for which the Certificate can be used in accordance with section 4.2.2 of the Qualified Certificate Profile, and
- An extension containing a statement indicating the record retention period applicable to the Certificate under CPS § 4.6.1 and EDP 4.6.1, in accordance with section 4.2.3 of the Qualified Certificate Profile.

7.1.3 Algorithm Object Identifiers

Getronics PinkRoccade X.509 Certificates are signed with sha1RSA (OID: 1.2.840.113549.1.1.5) or md5RSA (OID: 1.2.840.113549.1.1.4) in accordance with RFC 2459. VeriSign signed certain legacy CA and end user Subscriber Certificates with md2RSA (OID: 1.2.840.113549.1.1.2).

Getronics PinkRoccade Qualified Certificates are signed with sha1RSA (OID: 1.2.840.113549.1.1.5) or ecdsa-with-SHA1 (OID: 1.2.840.10045.1).

7.1.4 Name Forms

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

In addition, Getronics PinkRoccade include within end-user Subscriber Certificates either an additional Organizational Unit field or an 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 CPS § 1.2 and may contain other relevant object identifiers. For legacy Certificates issued prior to the publication of the VTN CP which include the Certificate Policies extension, Certificates refer to the VeriSign CPS.

7.1.7 Usage of Policy Constraints Extension

No stipulation.

7.1.8 Policy Qualifiers Syntax and Semantics

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

7.1.9 Processing Semantics for the Critical Certificate Policy Extension

No stipulation.

7.2 CRL Profile

Getronics PinkRoccade issues CRLs that conform to RFC 2459. At a minimum, Getronics PinkRoccade CRLs contain the basic fields and contents specified in Table 23 below:

Field	Value or Value constraint
Version	See CPS §7.2.1.
Signature Algorithm	Algorithm used to sign the CRL. VeriSign CRLs are signed using md5RSA (OID: 1.2.840.113549.1.1.4) or md2RSA (OID: 1.2.840.113549.1.1.2) in accordance with RFC 2459.
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. Getronics PinkRoccade CRLs are effective upon issuance.
Next Update	Date by which the next CRL will be issued. The Next Update date for Getronics PinkRoccade CRLs is set as follows: 3 months from the Effective Date for VeriSign PCAs and 10 days from the Effective Date for other Getronics PinkRoccade CAs. CRL issuance frequency is in accordance with the requirements of CPS § 4.4.9.
Revoked Certificates	Listing of revoked Certificates, including the Serial Number of the revoked Certificate and the Revocation Date.

Table 23 - CRL Profile Basic Fields

7.2.1 Version Number(s)

Getronics PinkRoccade currently issues X.509 Version 1 CRLs by default and may issue X.509 Version 2 CRLs on Customer request.

7.2.2 CRL and CRL Entry Extensions

No stipulation.



8. Specification Administration

8.1 Specification Change Procedures

Amendments to this CPS shall be made by the Getronics PinkRoccade Policy Management Authority (PMA). Amendments shall either be in the form of a document containing an amended form of the CPS or an update. Amended versions or updates shall be linked to the Practices Updates and Notices section of the Getronics PinkRoccade Repository located at: https://www.pki.getronicspinkroccade.nl/repository/updates. Updates supersede any designated or conflicting provisions of the referenced version of the CPS.

8.1.1 Items that Can Change Without Notification

Getronics PinkRoccade reserves 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. Getronics PinkRoccade's decision to designate amendments as material or non-material shall be within Getronics PinkRoccade's sole discretion.

8.1.2 Items that Can Change with Notification

Getronics PinkRoccade shall make material amendments to the CPS in accordance with this CPS § 8.1.2.

8.1.2.1 List of Items

Material amendments are those changes that Getronics PinkRoccade, under CPS § 8.1.1, considers to be material.

8.1.2.2 Notification Mechanism

Getronics PinkRoccade's Practices Development group will post proposed amendments to the CPS in the Practices Updates and Notices section of the Getronics PinkRoccade Repository, which is located at: https://www.pki.getronicspinkroccade.nl/repository/updates. Getronics PinkRoccade solicits proposed amendments to the CPS from other Getronics PinkRoccade Subdomain Participants. If Getronics PinkRoccade considers such an amendment desirable and proposes to implement the amendment, Getronics PinkRoccade shall provide notice of such amendment in accordance with this section.

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

8.1.2.3 Comment Period

Except as noted under CPS § 8.1.2.2, 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 PinkRoccade Repository. Any Getronics PinkRoccade Subdomain Participant shall be entitled to file comments with Getronics PinkRoccade's Practices Development group up until the end of the comment period.

8.1.2.4 Mechanism to Handle Comments

Getronics PinkRoccade's Practices Development group will consider any comments on the proposed amendments. Getronics PinkRoccade will either (a) allow the proposed amendments to become effective without amendment, (b) amend the proposed amendments and republish them as a new amendment under CPS § 8.1.2.2, or (c) withdraw the proposed amendments. Getronics PinkRoccade is entitled to withdraw proposed amendments by providing notice in the Practices Updates and Notices section of the Getronics PinkRoccade Repository. Unless proposed amendments are amended or withdrawn, they shall become effective upon the expiration of the comment period under CPS § 8.1.2.3.

8.1.3 Changes Requiring Changes in the Certificate Policy OID or CPS Pointer

If the Getronics PinkRoccade PMA determines that a change is necessary in the object identifier corresponding to a Certificate policy, a new object identifiers for the new Certificate policy, or an amendment to an existing Certificate Policy, will be created. See also CP § 8.1.3.



8.2 Publication and Notification Policies

8.2.1 Items Not Published in the CPS

Security documents considered confidential by Getronics PinkRoccade and VeriSign not disclosed to the public. Confidential security documents include the documents identified in CPS § 1.1(a) Table 1 as documents that are not available to the public.

8.2.2 Distribution of the CPS

This CPS is published in electronic form within the Getronics PinkRoccade Repository at https://www.pki.getronicspinkroccade.nl/repository. The CPS is available in the Getronics PinkRoccade Repository in Adobe Acrobat pdf format The CPS is available in paper form from Getronics PinkRoccade's PMA upon request. .



9. Acronyms and Definitions

9.1 Table of Acronyms

Acronym	Term
ANSI	The American National Standards Institute.
ASB	Authentication Service Bureau.
B2B	Business-to-business.
BXA	The United States Bureau of Export Administration of the United States Department of
	Commerce.
CA	Certification Authority.
CP	Certificate Policy.
CPS	Certification Practice Statement.
CRL	Certificate Revocation List.
EAL	Evaluation assurance level (pursuant to the Common Criteria).
EDI	Electronic Data Interchange.
FIPS	United State Federal Information Processing Standards.
ICC	International Chamber of Commerce.
KRB	Key Recovery Block.
LSVA	Logical security vulnerability assessment.
OCSP	Online Certificate Status Protocol.
OFX	Open Financial Exchange.
PCA	Primary Certification Authority.
PIN	Personal identification number.
PKCS	Public-Key Cryptography Standard.
PKI	Public Key Infrastructure.
PMA	Policy Management Authority.
RA	Registration Authority.
RFC	Request for comment.
SAS	Statement on Auditing Standards (promulgated by the American Institute of Certified Public
	Accountants).
S/MIME	Secure multipurpose Internet mail extensions.
SSL	Secure Sockets Layer.
VTN	VeriSign Trust Network.

9.2 Definitions

Term	Definition
	A type of Getronics PinkRoccade CA that issues Certificates to Getronics
Authority (Administrative CA)	PinkRoccade RAs, Managed PKI Customer personnel (Managed PKI Administrators), Affiliate Administrators, and Automated Administration servers.
Administrator	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.
Administrator Certificate	A Certificate issued to an Administrator that may only be used to perform CA or RA functions.
Affiliate	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.
Affiliated Individual	A natural person that is related to a given entity (i) as an officer, director, employee, partner, contractor, intern, or other person within the entity, (ii) as a



Term	Definition
	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.
ASB Customer	An entity that contracts with VeriSign or an Affiliate to obtain Authentication
	Service Bureau services. An ASB Customer is a CA, and is named as such
	within the Certificates issued by its CA, but it outsources all CA functions to an ASB Provider.
ASB Provider	An entity (either VeriSign or an Affiliate) that offers Authentication Service
A3B Flovidei	Bureau services to ASB Customers. An ASB Provider acts as an outsourcing
	provider of back-end functions for an ASB Customer and as an RA for the ASB
	Customer.
Authentication Service	A service within the VTN by which VeriSign or an Affiliate performs most front-
Bureau	end RA and all back-end CA functions on behalf of an organization.
Automated Administration	A procedure whereby Certificate Applications are approved automatically if
	enrollment information matches information contained in a database.
Automated Administration	Software provided by VeriSign that performs Automated Administration.
Software Module	
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
or amound approams	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 Chain	An ordered list of Certificates containing an end-user Subscriber Certificate and
	CA Certificates, which terminates in a root Certificate.
Certificate Management	Criteria that an entity must meet in order to satisfy a Compliance Audit.
Control Objectives	The decree of a City I (0 / a 'O') and The at Next and O at City I (1 a / a / a / a / a / a / a / a / a / a
Certificate Policies (CP)	The document entitled "VeriSign Trust Network Certificate Policies" and is the
Certificate Revocation List	principal statement of policy governing the VTN. A periodically (or exigently) issued list, digitally signed by a CA, of identified
(CRL)	Certificates that have been revoked prior to their expiration dates. The list
(6/12)	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	A statement of the practices that VeriSign or an Affiliate employs in approving or
Statement (CPS)	rejecting Certificate Applications and issuing, managing, and revoking Certificates, and requires its Managed PKI Customers and Gateway Customers
	to employ. In the context of this CPS, "CPS" refers to this document.
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. The
01 01-11-11-11-11	distinctions are summarized in CPS § 1.1.1.
Class 2 Individual ASB	A Class 2 individual Certificate issued by an ASB Provider on behalf of an ASB
Class 3 Organizational ASB	Customer CA. A Class 3 organizational Cortificate issued by an ASR Provider on hehalf of an
Class 3 Organizational ASB Certificate	A Class 3 organizational Certificate issued by an ASB Provider on behalf of an ASB Customer CA.
Managed PKI Customer	An organization that has obtained Managed PKI services from Getronics
manageu F N Gustoniel	par organization that has obtained managed FTM services from Genotics



Term	Definition
	PinkRoccade, whereby the organization becomes a CA within the VTN to issue client Certificates. Managed PKI Customers outsource back-end functions of
	issuance, management, and revocation to Getronics PinkRoccade, but retain
	for themselves the RA functions of approving or rejecting Certificate
Managed PKI Lite	Applications and initiating revocations and renewals of Certificates. An organization that has obtained Managed PKI Lite services from VeriSign or
Customer	an Affiliate, whereby the organization becomes a Registration Authority within
	the VTN to assist a VeriSign or Affiliate CA to issue client Certificates. This CA
	delegates to Managed PKI Lite Customers the RA functions of approving or
	rejecting Certificate Applications and initiating revocations and renewals of
Commission of Audit	Certificates. A periodic audit that a Processing Center, Service Center, or Managed PKI
Compliance Audit	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
Confidential/Private	private key. Information required to be kept confidential and private pursuant to CPS
Information	§ 2.8.1.
Customer	An organization that is either an Managed PKI Customer, or ASB Customer.
Digital Receipt	A data object created in connection with the VeriSign Digital Notarization
	Service offered by Getronics PinkRoccade and digitally signed by the Time-
	Stamping Authority that includes the hash of a document or set of data and a
Electronic Data	time-stamp showing that the document or data existed at a certain time. The computer-to-computer exchange of business transactions, such as
Interchange (EDI)	purchase orders, invoices, and payment advices in accordance with applicable
(== 1)	standards.
Electronic Data	A Class 3 organizational Certificate that allows for digital signatures on
· ·	Electronic Data Interchange messages and for the encryption of EDI
Certificate)	messages.
Service Center	A line of business that an Affiliate enters to provide Managed PKI services to Managed PKI Customers.
	A server residing at the site of a Managed PKI Customer used in conjunction
Linerprise Roaming Gerver	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.
Enterprise Security Guide	A document setting forth security requirements and practices for Managed PKI Customers and Gateway Customers.
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.
Global Server ID	A Class 3 organizational Certificate used to support SSL sessions between web
	browsers and web servers that are encrypted using strong cryptographic protection consistent with applicable export laws.
Managed PKI for SSL	A type of Managed PKI service that permits an organization to become an RA
(Premium Edition)	within the VTN to assist a VeriSign or Affiliate CA to issue Global Server IDs
,	within designated domains. This CA delegates to Managed PKI for SSL
	(Premium Edition) Customers the RA functions of approving or rejecting
	Certificate Applications and initiating revocations and renewals of Global Server
Managed PKI for SSL	IDs. An organization that has obtained Managed PKI for SSL (Premium Edition)
(Premium Edition)	services from VeriSign or an Affiliate.
Customer	3



Term	Definition
Go Secure!	A suite of plug-and-play services building on Managed PKI services and
	designed to accelerate e-commerce applications.
Infrastructure Certification	A type of Getronics PinkRoccade CA that issues Certificates to components of
Authority (Infrastructure	the Getronics PinkRoccade infrastructure supporting certain Getronics
CA)	PinkRoccade services. Infrastructure CAs do not issue CA, RA, or end-user
	Subscriber Certificates.
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	A Certification Authority whose Certificate is located within a Certificate Chain
Authority (Intermediate CA)	between the Certificate of the root CA and the Certificate of the Certification
Koy Coromony Boforonco	Authority that issued the end-user Subscriber's Certificate.
Key Ceremony Reference Guide	A document describing Key Generation Ceremony requirements and practices.
	A procedure whereby a CA's or RA's key pair is generated, its private key is
ney deneration determiny	transferred into a cryptographic module, its private key is backed up, and/or its
	public key is certified.
Kev 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 provided by Getronics PinkRoccadethat 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.
Manual Authentication	A procedure whereby Certificate Applications are reviewed and approved
Ontropina Bird-Danas da	manually one-by-one by an Administrator using a web-based interface.
Getronics PinkRoccade	An extended warranty program, which is described in CP § 1.1.2.2.3 and CPS
PKI Warranty Program Protection Plan	§ 1.1.2.2.3.
Non-repudiation	An attribute of a communication that provides protection against a party to a
Non-repudiation	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.
Online Certificate Status	A protocol for providing Relying Parties with real-time Certificate status
Protocol (OCSP)	information.
Managed PKI	VeriSign's fully integrated Managed PKI service offered by Getronics PinkRoccade that allows enterprise Customers of Getronics PinkRoccade 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	A Getronics PinkRoccade document setting forth the operational requirements
_	and practices for Managed PKI Customers.
Managed PKI Agreement	An agreement under which an organization becomes an Managed PKI
	Customer and agrees to be bound by this CPS.
Managed PKI Certificate	A Certificate whose Certificate Application was approved by an Managed PKI
	Customer.



Term	Definition
Managed PKI Control	A web-based interface that permits Managed PKI Administrators to perform
Center	Manual Authentication of Certificate Applications.
Managed PKI Customer	An organization that is one or more of the following: a Managed PKI Customer,
	a Managed PKI Lite Customer, a Managed PKI for SSL Customer, or a
	Managed PKI for SSL (Premium Edition) Customer.
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	A document setting forth the operational requirements and practices for
Management Service	Managed PKI Customers using Managed PKI Key Manager.
Administrator's Guide	
Managed PKI Lite	A type of Managed PKI service that permits an organization to become a
	Registration Authority within the VTN to assist a Getronics PinkRoccadeCA to
	issue client Certificates.
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	The organization within VeriSign responsible for promulgating this policy
Authority (PMA)	throughout the VTN.
Primary Certification	A CA that acts as a root CA for a specific Class of Certificates, and issues
Authority (PCA)	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 subordinate to them.
Public Key Infrastructure	The architecture, organization, techniques, practices, and procedures that
(PKI)	collectively support the implementation and operation of a Certificate-based
	public key cryptographic system. The VTN PKI consists of systems that
Ovalified Contificate	collaborate to provide and implement the VTN.
Qualified Certificate	A certificate which meets the requirements laid down in Annex I of the Directive and is provided by a certification authority who fulfils the requirements laid
	down in Annex II of the Directive.
Posistration Authority (PA)	An entity approved by a CA to assist Certificate Applicants in applying for
Registration Authority (RA)	Certificates, and to approve or reject Certificate Applications, revoke
	Certificates, or renew Certificates.
Relying Party	An individual or organization that acts in reliance on a certificate and/or a digital
Relying Farty	signature.
Relying Party Agreement	An agreement used by a CA setting forth the terms and conditions under which
Relying Farty Agreement	an individual or organization acts as a Relying Party.
Retail Certificate	A Certificate issued by Getronics PinkRoccade, acting as CA, to individuals or
rtotan Gortmouto	organizations applying one by one to Getronics PinkRoccade 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	The Certification Authority that issues Secure Server IDs.
Certification Authority	The Committee of the Control of the
(RSA Secure Server CA)	
RSA Secure Server	The PKI hierarchy comprised of the RSA Secure Server Certification Authority.
NOA Occure Gerver	The Fit including complication the Non-Secure Server Serum authority.



Term	Definition
Hierarchy	
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
Secret Sharing	private key in order to enforce multi-person control over CA private key
	operations under CPS § 6.2.2.
Cooura Comicon ID	·
Secure Server ID	A Class 3 organizational Certificate used to support SSL sessions between web
	browsers and web servers.
Secure Sockets Layer	The industry-standard method for protecting Web communications developed
(SSL)	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	A VeriSign document that sets forth the security and audit requirements and
Requirements Guide	practices for Processing Centers and Service Centers.
Security and Practices	A review of an Affiliate performed by VeriSign before an Affiliate is permitted to
Review	become operational.
Server Gated Cryptography	A technology that permits web servers that have been issued a Global Server
corror cutou oryprograpmy	ID to create an SSL session with a browser that is encrypted using strong
	cryptographic protection.
Sarvar Managad BKI	A type of Managed PKI service that permits an organization to become an RA
Server Managed PKI	
	within the VTN to assist a VeriSign or Affiliate CA to issue Secure Server IDs
	within designated domains. This CA delegates to Managed PKI Customers the
	RA functions of approving or rejecting Certificate Applications and initiating
	revocations and renewals of Secure Server IDs.
Managed PKI for SSL	An organization that has obtained Server Managed PKI services from VeriSign
Customer	or an Affiliate.
Secure-Signature-Creation	A signature-creation device which meets the requirements laid down in Annex
Device	III of the Directive.
Server Service Center	A Service Center that is an Affiliate providing Secure Server IDs and Global
	Server IDs either in the Web Site or Enterprise line of business.
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 VTN under control of an entity and all entities subordinate to
Subdomain	it within the VTN hierarchy.
Cubicat	The holder of a private key corresponding to a public key. The term "Subject"
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 2, or 3
	hierarchy).
Supplemental Risk	A review of an entity by VeriSign following incomplete or exceptional findings in
Management Review	a Compliance Audit of the entity or as part of the overall risk management
management Neview	process in the ordinary course of business.
Reseller	An entity marketing services on behalf of VeriSign or an Affiliate to specific
Neschei	
	markets.



Term	Definition
Time-Stamping Authority	The VeriSign entity that signs Digital Receipts as part of the VeriSign Digital
	Notarization Service.
Time-Stamping Authority	The VeriSign CA that issued a special Class 3 organizational Certificate to the
CA	Time-Stamping Authority used to verify the digital signatures on Digital
	Receipts.
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 CPS § 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 Digital	A service offered to Managed PKI Customers that provides a digitally signed
Notarization Service	assertion (a Digital Receipt) that a particular document or set of data existed at
offered by Getronics	a particular point in time.
PinkRoccade	
Getronics PinkRoccade	Getronics PinkRoccade's database of Certificates and other relevant VeriSign
Repository	Trust Network information accessible on-line.
VeriSign Roaming Server	A server residing at Getronics PinkRoccade's Processing Center used in
offered by Getronics	conjunction with the VeriSign Roaming Service offered by Getronics
PinkRoccade	PinkRoccade to hold portions of symmetric keys used to encrypt and decrypt
	Roaming Subscribers' private keys.
VeriSign Roaming Service	The service offered by Getronics PinkRoccade that enables a Subscriber to
offered by Getronics	download his or her private key and perform private key operations on different
PinkRoccade	client terminals.
Getronics PinkRoccade	The highest-level document describing Getronics PinkRoccade's security
Security Policy	policies.
Getronics PinkRoccade	An individual or organization that is one or more of the following within the
Subdomain Participants	Getronics PinkRoccade's Subdomain of the VTN: Getronics PinkRoccade, a
	Customer, a Reseller, a Subscriber, or a Relying Party.
VeriSign Trust Network	The Certificate-based Public Key Infrastructure governed by the VeriSign Trust
(VTN)	Network Certificate Policies, which enables the worldwide deployment and use
	of Certificates by VeriSign and its Affiliates, and their respective Customers,
Cotronico	Subscribers, and Relying Parties.
Getronics	An individual or organization that is one or more of the following within the VTN:
PinkRoccadeVTN	VeriSign, an Affiliate, a Customer, a Reseller, a Subscriber, or a Relying Party.
Participant VTN Cton double	The horizon level and technical association as to incide a second of
VTN Standards	The business, legal, and technical requirements for issuing, managing,
Wah Haat	revoking, renewing, and using Certificates within the VTN.
Web Host	An entity hosting the web site of another, such as an Internet service provider, a
	systems integrator, a Reseller, a technical consultant, and application service
Web Heat Dresses	provider, or similar entity. A program that allows Web Hosts to enroll for Secure Server IDs and Global
Web Host Program	Server IDs on behalf of end-user Subscribers who are customers of the Web
	Hosts.
Wah Site as in Wah Site	
Web Site, as in Web Site	A line of business that an Affiliate enters to provide Secure Server ID and
Service Center	Global Server ID Retail Certificates one by one to Certificate Applicants.

ANNEX A.





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/RFNB).

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.

3.1.9.2 Authentication of Individual Identity Qualified Certificates

The identity of Certificate Applicants is checked in direct personal (physical, face to face) presence before Credoc Services CV and 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 Qualified Certificates

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

- Using the automatic REALSTOP-procedure. This REALSTOP-procedure can be entered via the enotary login page using a username and password. An authorized revocation request via REALSTOP will be processed immediately. If a revocation of a certain certificate needs to be performed urgently, one has to use the REAL STOP-procedure. This procedure is available 24 hours per day, 7 days a week.
- During business hours, telephone with the REAL-Helpdesk, tel. +32 02/500.14.66.

4.1.1.1 Certificate Applications for Qualified Certificates

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

4.2.1.1 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;
- Physical identity check of the Certificate Applicant;
- Signing of the user agreement;
- Check of the Certificate Applicant's signature on the user agreement.

Transfer of the activation data of the SSCD (PIN code) is done by an out of bound send PIN-mail.

The PUK code is not transferred to the Certificate Applicant, but saved by Credoc Services CV. In case of a not working PIN code, the Certificate Applicant have to contact the REAL-Helpdesk, tel. +32 02/500.14.66. 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.

4.6.1.1 Additional recording of Events for Qualified Certificates

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

4.6.2 Retention Period for Archive



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

5.1 Physical Controls

Credocs 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.