QuoVadis Root CA 1G3

QuoVadis Root CA 3/ QuoVadis Root CA 3 G3

Certificate Policy/ Certification Practice Statement

OIDs: 1.3.6.1.4.1.8024.0.1 1.3.6.1.4.1.8024.0.3 Effective Date: September24, 2021 Version: 4.35

Version Control

Approved by	Date	Version	Comment
QuoVadis PMA	28 February 2002	2.05	ETA Revisions
QuoVadis PMA	01 August 2003	2.06	WebTrust Revisions
QuoVadis PMA	01 April 2004	2.07	WebTrust Revisions
QuoVadis PMA	11 November 2005	2.08	WebTrust Revisions
QuoVadis PMA	17 April 2006	4.00	Cumulative ZertES Revisions
QuoVadis PMA	14 September 2006	4.1	EIDI-V Certificate Requirements
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QuoVadis PMA 26 Februaryem0

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QuoVadis PMA	2 August 2016	4.19	Updates for Regulation (EU) N@10/2014 (the eIDAS Regulation)	
QuoVadis PMA	8 May 2017	4.20	Updates for the eIDAS Regulation; includes Legal Person CertificatesUpdates for Code Signing Minimum Requirements	
QuoVadis PMA	6 September 2017	4.21	Updates for CAA. Updates for submission of complaints	
QuoVadis PMA	31 January 2018	4.22	Updates for the Baseline Requirements and Mozilla Root Store Policy	
QuoVadis PMA	25 July 2018	4.23	Updates for Certificate Renewal. Additions in Appendix A relating to Qualified Certificate QSCD, where the device is managed by QuoVadis on beha of the subject (1.3.6.1.4.1.8024.1.410).	f
QuoVadis PMA	30 July 2018	4.24	Updates for domain vetting CA/B Forum Ballot 218)	
QuoVadis PMA	7 December 2018	4.25	Updates to include changes for EU Qualified certs and itsme Sign Issuing CA G1. More explicit reference to the BR Domain Vetting methods	
QuoVadis PMA	6 June2019	4.26	Updates for where QSCD managed on behalf of Subscriberby QuoVadis . Updates to revocation requests.Updates for Baseline Requirements domain and IP address validation methodsChange to CRL update frequency	
QuoVadis PMA	20 June2019	4.27	Included PSD2 QualifiedeSeal(QSeal@according to ETSI TS 119 495	
QuoVadis PMA	23 August 2019	4.28	Adding QuoVadis responsibilitiesmanagingkeys on behalf of theSubscriber. Clarifying revocation procedures	
QuoVadis PMA	27 March 2020	4.29	Changesto comply with Mozilla Root Store Policy v2.7,CA/B Forum Ballot SC25and clarest.76 Tm q 95	5.88.12 re Wt BT

	4.1.1. Who Can Submit A Certificate Application	
	4.1.2. Enrolment Process And Responsibilities	
4.2.	Certificate Application Processing	
	4.2.1. Performing Identification And Authentication Functions	
	4.2.2.6 Two ton 074.=0.0.11.04.1680733067812(8.7.15.(1)Tj./T.F6)73(140(101)8.7.00)0)(0)	

4.9.15.	Procedure For Suspension Request	
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	5.7.4. Business Continuity Capabilities After a Disaster	
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	6.1.1. Key Pair Generation	
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9.10. Term And Termination	
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9.10.2. Termination	
9.10.3. Effect Of Termination And Survival	
9.11. Individ	p3 >>BDCeTf 0 T(()Tj 0.006 Tc -0

Subscribers are required to act in accordance with this CP/CPS a Solubscriber Agreement See also Section 9.6.3.

1.3.4. Relying Parties

Relying Parties are entities that act in Reasonable Reliance on a Certificate and/or Digital Signature issued by QuoVadis. A Relying arty may, or may not, also be a Subscriber of the QuoVadis FRM lying parties must check the appropriate CRL or OCSP people prior to relying on information featured in a Certificate. The location of the Certificate Status service C e a6 ()Tj -0.001 Tc -0.002 Tw 0.217 0 Td [(a)-7.8 (.)-0. d9 ()]TJ (tu)-3

Policy Management Authority (PMA) means the QuoVadis body responsible for overseeing and approving CP/CPS amendments and general management.

Private Key means the keyof a Key Pair that is kept secret by the holder of the Key Pair, and that is used to create digital signatures and/or to1 Td [(c Tf 9.9(r)10.4 yb)3.9 [57.309 710.55 417.9653 79c Tf 9.d d app>o 5.7 (a)-7etira6

Standards / Law	
	WebTrust for Certification Authorities – Extended ValidationSSL
	WebTrust for Certification Authorities – Publicly Trusted Code Signing Certificates
SR 94303 [ZertES]	Bundesgesetz über Zertifizierungsdienste im Bereich der elektronischen

Standards / Law

Microsoft Trusted Root Store (Program Requirements) Mozilla Root Store Policy v.2.7

3.1. NAMING

3.1.1. Types Of Names

All Subscribers require a distinguished name that complies with the ITU X.500 standard for Distinguished Names(DN). The QuoVadisPMA approves naming conventions for the creation of distinguished names for Issuing CA applicants. Different naming conventions may be used by different distinguished names for Issuing CA applicants.

The Subject name of all Certificates issued to Individuals shall be the authenticated common name of the Subscriber. Each User must have a unique and readily identifiable X.501 DAIternatively, DNsmay be based on domain name components, e.gCN=John Smith, DC=QuoVadis, DC=BINE Common Name may contain the applicant's first and last name (surname).

For Certificates issued under the Baseline Requirements, the use of Internal Server Names and Reserved IP Addresses is prohibited, and the FQDN authenticated domain name is placed in the Common Name (CN) attribute of the Subject field and/or the Subject Alternative Name extension.

The Distinguished Names of a Code Signing Certificate must identify the legal entity that intends to have control oveTj -0.06Tj -0.0t ide tnse of 0 9Tj -0.0t iderivatee oK when signing code.

3.1.2. Need For Names To Be Meaningful

QuoVadisusesDistinguished Namest identify boTj -0.0t the entity (i.se .s person, esatigam, idevice, s ors object) Tj -0.0t at is Tj -0.0t idebject of the Certificatidend Tj -0.54 tidentity theat is the issers o.8 (0 9Tj -0.3 (e)-6.9 (C)-4.3 (e)-7 (r)3.

3.1.3. Pseudonymous Subscribers

QuoVadis may issue pseudonymousnd entity Certificatide 0 9Tj -0.0t ide are not proj -0.3 (i)-12.1 (b)3.8 (itide)6yd by policy applicable name spaceniqueness requirements are met. For Internationalised Domain Names (IDN), QuoVatierreay include the P-33.8 (n)9.8 (y)3.9 (c)1.2 (o)6.9 (d)6.8 (e v)4 (er)10.4 (s)2.3 (i)6.9 (o)-5.2 (n)9.8 (o)6.9 (f)-4.3

3.1.4. Rules For Interpreting Various Name Forms

Distinguished Names in Certificates are interpreted using X.500 standards and ASN.1 syntax.

3.1.5. Uniqueness Of Names

The Subject Name ofh Cstificatid]TJ 0 Tc 0 Tw 15.627 0 Td ()Tj 0.006 Tc -0.009 Tw 0.217 0 Td [(i)6.9 (s)2.2 (s)2.3 (u)3.8 (

3.2.1. Method To Prove Possession Of Private Key

Issuing CAs shall establish that each Applicant for a Certificate possession and control of the Private Key corresponding to the Public Key contained in the request for a Certificate he Issuing CA shall do so in accordance with an appropriate secure protocol, such as the IETF PKIX Certificate Management Protocol, including PKCS#10. This requirement does not apply where a Key Pair is generated on behalf of a Subscriber

3.2.2. Authentication Of Organisation Identity

The Identity of an Organisation is equired to be authenticated with respect to each Certificate that asserts (i) the identity of an Organisation; or (ii) an Individual or Device's affiliation with an Organisation. Without limitation to the generality of the foregoing, the Identity of anyOrganisation that seeks to act as a RA its employees and/or employees of its respective Subsidiaries, Holding Companies or Counterparties is required to be authenticated.

In order to authenticate the Identity of an Organisation, at a minimum, confirmation is required that: (i) the Organisation legally exists in the name that will appear in the

ii) By sending an email message containing a Random Value to the email address to be included in the Certificate and receiving a confirming response within a limited period of time that includes the Random Value to indicate that the Applicant controls that same email address.

QuoVadis maintains a list of High Risk Domains and has implemented technical controls to prevent the issuance of Certificates to certain domains. QuoVadis follows documented technical controls to and require additional verification activity for High Risk Certificate Requests prior to the Certificate's approval.

QuoVadisuses a documented internal process to check the accuracy of information sources and databases to ensure the data is acceptable, including reviewing the database provider's terms of use EV, the approved sources are published a file linked at https://github.com/digicert/reports/tree/master/validation -sources

QuoVadis may include the Legal Entity Identifier (LEI) numbers in Certificates after verification through appropriate mechanisms, such as provided by Global Legal Enure Q5.8 (y).8 (.).0.4 (e p)7.8 (u)3916 0.006 Tc -0.006 TH4T

3.4.

For publicly-trusted TLSCertificates, Applicant information is required to includeat least one FQDMr IP address to be included in the Certificate's SubjectAltName extension ovadis implements documented procedures that require additional verifications as reasonably necessary for High Risk Certificate Requests prior to the Certificate's approval.

QuoVadisconsiders a source's availability, purpose, and reputation when determining wheth a third-party data source is reasonably reliable. For TLQuoVadisdoes not consider a database, source, or form of identification reasonably reliable if QuoVadisor the RA is the sole source of the information.

4.2.1.1. *Certificate Authority Authorisation (CAA)*

Prior to issuing TLS Certificates. QuoVadis checks for CAA records for each dNSName in the subjectAltName extension of the Certificate to be issued. If the QuoVadis Certificate is issued, it will be issued within the TTL of the CAA record, or 8 hours, whichever is greater.

When processing CAA records, QuoVadis processes the issue, issuewild, and iodef property tags as specified in RFC 8659. QuoVadis may not act on the contents of the iodef property tag. QuoVadis will not issue a Certificate if an unrecognised property is found with the critical flag.

CAA checking is optional for Certificates issued by a Technically Constrained Issuing CA as set out in Baseline Requirements Section 7.1.5, or where CAA was checked prior to the creation of a corresponding OTe-p certificate that was logged in at least 2 public CT log servers.

DNS access failure can be treated as permission to issue when the failure is proven to be outside QuoVadis infrastructure, was retried at least once, and the domain zone does not have a DNSSEC validation chain to the ICANN root.

QuoVadis documents potential issuances that were prevented by a CAA record, and may not dispatch reports of such issuance requests to the contact stipulated in the CAA iodef record(s), if present. QuoVadis supports mailto: and https: URL schemes in the iodef record.

The identifying CAA domains recognised by QuoVadis: are "digicert.com", "digicert.ne.jp", "cybertrust.ne.jp", "symantec.com", "thawte.com", geotrust.com", "quovadisglobal.com", "rapidssl.com",

"digital certvalidation.com" and any domain containing those identifying domains as suffixes (e.g.

4.3. CERTIFICATE ISSUANCE

4.3.1. CAActions During Certifi cate Issuance

Certificate issuance is governed by the practices described in and any requirements imposed by toB/CPS. QuoVadis does not issue end entityLSCertificates directly from its Root Certificates.

Certificate issuance by a Root CA requires a trusted role authorized by QuoVadis (i.e. the CA system operator, system officer, or PKI administrator) to deliberately issue a direct command in order for the Root CA to perform a Certificate signing operation. Databases and CA processes occurring during Cficate issuance are protected from unauthorised modification. After issuance is complete, the Certificate is stored in a database and sent to the Subscriber.

4.3.2. Notification To Applicant Subscriber By The CA Of Issuance Of Certificate QuoVadissw 2

4.6.5. Conduct Constituting Acceptance Of A Renewal Certificate

Conduct constituting acceptance of a reewed Certificate is in accordance with Section 4.4.1.Issuct.3 (.3A)1.8 d.2p()Tj E3.2 (t

- ii) QuoVadisreceived a lawful and binding order from a government or regulatory body to revoke the Certificate;
- iii) The Subscriber is confmed to be bankrupt, in liquidation, or deceased;
- iv) QuoVadisceased operations and did not arrange for another CtA provide revocation support for the Certificates;
- v) The technical ontent or formaw 0.94 0orpen se/LBody it(f)0.8 (or)c -0.00 (maw 8 (s)-)0.7 (p)-/LBody testenisten -4

QuoVadismay authorise the reissue of Certificate to Holders at no charge, unless the actions of the Holders were in breach of the QuoVadis CP/CPS or other contractual documents.

4.9.2. Who Can Request Revocation

Any appropriately authorised party, such as a recogned representative of a Subscriber or RA may request revocation of a Certificate. QuoVadis may revoke a Certificate/hout receiving a request and without reason. eda a rebirts/parties may/figue/2003/27/37()-[(ed)/te6(-(b)]/3.10 Tic)/3.3 (06)/1(2)/27/30(662-07.7.663-(tr())/27/3)/e)/27/3/(0/25)/27/3/(d)/25)/27/3/(d)/27/3

4.9.4. Revocation Request Grace Period

Subscribers are required to request revocation within one day after detecting the loss or compromise of the Private Key. No grace period is permitted once a revocation request has been verified. Issuing **QAUS** revoke Certificates as soon as reasonably practical following verification of a revocation request.

4.9.5. Time Within Which The CA

4.9.8. Maximum Latency For CRL

CRLs for Certificates issued to end entity ubscribers are posted automatically to the online Repository within a commercially reasonable time after generation, usually within 10 ninutes of generation. Regularly within 20 at a commercially reasonable time after generation, usually within 10 ninutes of generation. Regularly within 20 at a commercial commercical commercial commercical commerceal commerceal commerceal

4.9.15. Procedure For Suspension Request

No suspension of Certificate is permissible within the QuoVadis PKI.

4.9.16. Limits On Suspension Period

No suspension of Certificate is permissible within the QuoVadis PKI.

4.10. CERTIFICATE STATUS SERVICES

4.10.1. Operational Characteristics

Certificate status information is available via CRL and OCSP responder. For publiclysted TLS certificates, revocation entries on a CRL or OCSP Response are not removed until after the expiration of the revoked Certificate. The serial number of a revoked Certificate remains on the CRL until one additional CRL is published after the end of the Certificate's validity periodexcept for revoked Code Signing Certificates, which remain on the CRL for at least 10 years following the Certificate's validity period.

4.10.2. Service Availability

Certificate status services are available 24x7. QuoVadis operates and maintains its CRL and OCSP capability with resources sufficient to provide a response time of ten seconds or less under moval operating conditions.

QuoVadisalso maintains a continuous 24x7 ability to respond internally to a highpriority Certificate Problem Report, and where appropriate, forward such a complaint to law enforcement authorities, and/or revoke a Certificate that is the subject of such a complaint.

4.10.3. Optional Features

No stipulation.

4.11. END OF SUBSCRIPTION

A Subscriber's subscription service ends if its Certificate expires or is revoked or if the applicable Subscriber Agreement expires without renewal.

4.12. KEY ESCROW AND RECOVERY

QuoVadis provides optionaPrivate Key Escrow services for certain Certificate Profiub

4.12.1. Key Escrow And Recovery Policy And Practices

RAsare permitted to instruct QuoVadis to escrowthe Subscriber's Encryption Private Key as specified in their RAAgreement. Enduser SubscriberPrivate Keys shall only be recovered under the circumstances permitted within the RA Agreement andQuoVadisPortal administrator guide.

EscrowedPrivate Keys are stored in encrypted form using the QuoVadis Port**a**ubscribes are notified when their Private Keys are escrowedProperly authenticated Subscribes may subsequently retrieve their own Private Keys.

In addition, properly authenticated RA Officers with specific Key Recovery permissions may request retrieval of a Sub**s**riber's Private Keys under the following conditions:

- RAs must protect Subscribe's escrowed Private Keys from unauthorised disclosure.
- RAs may retrieve Subscribes escrowed Private Keys only for properly authenticated and authorised requests for recovery
- RAs shall recover a Subscriber escrowed Private Keys without the Subscriber's authority only for legitimate and lawful purposes, such as to comply with judicial or administrative process or a search warrant, and not for any illegal, fraudulent, or other wrongful purpose.
- RAs must revoke the Subscribes Key Pair prior to recovering the Private Key.
- RAs may not disclose or allow to be disclosed escrow**&d**ys or archive keyrelated information to any third party unless required by the law, government rule, or regulation; by the enterprise's organisation policy; or by order of a court of competent jurisdiction.
- RAs are not required to communicate any information concerning a key recovery to the Subscriberexcept when the Subscriberhas requested recovery.

4.12.2. Session Key Encapsulation And Recovery Policy And Practices

Not applicable.

5. FACILITY, MANAGEMENT, AND OPERATIONAL CONTROLS

The Section of the CP/CPS provides a high level description of the security policy, physical and logical access control mechanisms, service levels, and personnel policies used by QuoVadis to provide trustworthy and reliable CA operations. QuoVadis maintains a security program to:

- i) Protect the confidentiality, integrity, and availability of data and business process;
- ii) Protect against anticipated threats or hazards to the confidentiality, integrity, and availability of data and business process;
- iii) Protect against unauthorised or unlawful access, use, disclosure, alteration, or destruction of data and business process;
- iv) Protect against accidental loss or destruction of, or damage to data and business processes; and
- v) Comply with all other security requirements applicable to the CA by law and industry best practices.

QuoVadis performs an annual risk assessment to identify internal and external threats and assess likelihood and potential impact of these threats to data and business processes.

5.1. PHYSICAL CONTROLS

QuoVadis manages and implements appropriate physical security controls to restrict access to the hardware and software used in connection with CA operations.

5.2.1. Trusted Roles

Personnel acting in trusted roles include CA, TSA, and RA system administration personnel, and personnel involved with identity vetting and the issuance and revocation of Certificates. The functions and duties performed by persons in trusted roles are distributed so that one person alone cannot circumvent security measures or subvert the security and trustworthiness of the PKI or TSA operations. A list of personnel appointed to trusted roles is maintained and reviewed annually.

5.2.1.1. CA Administrators

The CA Administrator installs and configures the CA software, including key generation, key backup, and key management. The CA Administrator performs and securely stores regular system backups of CA system. Administrators do not issue Certificates to Subscribers.

5.2.1.2. Registration Officers – CMS, RA, Validation and Vetting Personnel

The Registration Officer role is responsible for issuing and revoking Certificates.

5.2.1.3. System Administrators/ System Engineers (Operator)

The System Administrator/System Engineer installs and configures system hardware, including servers, routers, firewalls, and network configurations. The System Administrator/System Engineer also keeps critical systems updated with software patches and other maintenance needed for system stability and

• audit, review, oversight, or reconciliation functions; and

•

granted validation privileges. All Registration Officers are required to pass an internal examination on the EV Guidelines and the Baseline Requirements prior to validating and approving the issuance of Certificates.

5.3.4. Retraining Frequency And Requirements

Employees must maintain skill levels that are consistent witQuoVadis'industry-relevant training and performance programs in order to continue acting in trusted roles. QuoVadis akes employees acting in trusted roles aware of any changes to QuoVadis perations as necessary for them to perform their rolelf QuoVadis'operations change, QuoVadis'ill provide documented training, in accordance with an executed training plan, to all employees acting inrelevant trusted roles to those changes

5.3.5. Job Rotation Frequency And Sequence

Not applicable.

5.3.6. Sanctions for Unauthorised Actions

QuoVadis employees and agents failing to comply with this CP/CPS, whether through negligence or malicious intent, are subject to internally maintained processes specifying guidance or administrative or disciplinary actions, up to and including termination of employment or agency and criminal sanctions.

5.3.7. Independent Contractor Requirements

Independent contractors who are assigned to perform trusted roles are subject to the duties and requirements specified for such roles in this Section 5.3 and are subject to sanctions stated ve in Section 5.3.6.

5.3.8. Documentation Supplied To Personnel

Personnel in trusted roles are provided with the documentation necessary to perform their duties, including a copy of the CPCPSapplicable CA/Browser Forum standards and other technical and perational documentation needed to maintain the integrity ofQuoVadis CA operations. Personnel are also given access to information on internal systems and security documentation, identity vetting policies and procedures, discipline-specific books, treatises and periodicals, and other information.

5.4. AUDIT LOGGING PROCEDURES

5.4.1. Types Of Events Recorded

QuoVadis records details of the actions taken to process **artiticate** Request and to issue a Certificate, including all information generated and documentation received in connection with the **actificate** Request (I)-7.1 (in)2.8 (6(d

Issuance of Certificates; and

Generation of CRLs and OCSP entries.

- Security events, including
 - Successful and unsuccessful PKI system access attempts;
 - PKI and security system actions performed;
 - Security profile changes;
 - Installation, update and removal of software on a PKSystem
 - System crashes, hardware failures, and other anomalies;
 - Firewall and router activities; and
 - Entries to and exits from the CA facility.

QuoVadis event logs include:

- Date and time of the record;
- Identity of the entity making the journal record; and
- Details of the ofrecord.

5.4.2. Frequency Of Processing Log

As required, generally within at least once every two months, a QuoVadideministrator reviews the logs generated by QuoVadissystems, makes system and file integrity checks, and conducts a vulnerability assessment. The administrator may perform the checks using automated tools. During these checks, the administrator (i) checks whether anyone has tampered with the logii) scans for anomalies or specific conditions, including any evidence of malicious activity, andi() if necessary, prepares a written summary of the review. Any anomalies or irregularities found in the logs are investigated. The summaries mianclude recommendations to DigiCert's

5.5.2. Retention Period For Archive

Audit logs relating to the Certificatelifecycle are retained as archive records for a period no less than eleven (11) years for Swiss Qualified Certificates and for seven (7) years for all other CertificateDetailed system generated logs are retained for 18 months based on a risk assessment

5.5.3. Protection Of Archive

Archive records are stored at a secure location and are maintained in a manner that prevents unauthorized modification, substitution, or destruction. Archives are not released except as allowed by the PMAs required by law. Quo\adis maintains any software application required to process the archive data until the data is either destroyed or transferred to a newer medium.

If QuoVadisneeds to transfer any media to a different archive site or equipment, QuoVadisil maintain both archived locations and/or pieces of equipment until the transfer are complete. All transfers to new archives will occur in a secure manner.

5.5.4. Archive Backup Procedures

QuoVadis maintains and implements backup procedures so that in the event of the loss or destruction of the primary archives a complete set of backup copies is readily available.

5.5.5. Requirements For Time -Stamping Of Records

QuoVadis supports time stamping of its records. All events that are recorded within the QuoVadies vice include the date an

event of a disaster, security compromise, or busiess failure.QuoVadisreviews, tests, and updates its incident response plans and procedures on a periodizasis.

5.7.2. Computing Resources, Software, and/or Data Are Corrupted

QuoVadis makes regular system backups weekly basis and maintains backup copiessoCiA Private Keys,

- iii) destroy all Private Keys; and
- iv) make other necessary arrangements that are in accordance with this CP/CPS.

For Qualified Certificates a notice of termination of the Issuing CA must be communicated in accordance with preestablished procedues to SAS, the body responsible for accrediting the

6.1.6. Public Key Parameters Generation And Quality Checking

QuoVadisusescryptographic modules that conform to FIPS 1862 and provide random valuegeneration and on-board generation of Public Keys and a wide range of ECC curves.

6.1.7. Key Usage Purposes (As Per X.509 V3 Key Usage Field)

Private Keys corresponding to QuoVadis Root Certificates are not used to sign Certificates except in the following cases:

- i) Self-signed Certificates to represent the QuoVadis Root &A
- ii) Certificates for subordinate Issuing CAs and Cross Certificates;
- iii) Certificates for infrastructure purposes (administrative role certificates, internal CA operational device certificates); and
- iv) Certificates for OCSP Response verification

Subscriber Certificates assert key usages based on the intended applicatiededOCedesoledefbii)± (Deda 0 Tdsesertifi2i97

6.2.2. Private Key (N of-M) Multi -Person Control

QuoVadis' authentication mechanisms are protected securely when not in use and may only be accessed by actions of multiple trusted persons. Backups of CA Private Keys are securely stored and require to a backedup CA Private Key (unwrapping) requires the same security and multiple person control as when performing other sensitive CA Private Key operations.

6.2.3. Private Key Escrow

QuoVadis does not escrow its CA signature keyQuoVadismay provide escrow services forend entity SubscriberCertificates in order to provide key recovery as described in Section 12.1.

6.2.4. Private Key Backup

QuoVadisPrivate Keys are generated and operated insideryptographic modules whichhavebeen evaluated to at least FIPS 14@ Level 3. When keys are transferred to other media for backup and disaster recovery purposes, the keys are transferred and stored in an encrypted forrQuoVadis'CA Key Pairs are backed up by multiple trusted individuals using a cryptographic hardware device as part of scripted key backup process.

6.2.5. Private Key Archive

See Section 4.12. QuoVadis does not archive CA Certificate Private Keys.

6.2.6. Private Key Transfer Into Or From A Cryptographic Module

All CA keys must be generated by and in a cryptographic module. Private Keys are exported from the cryptographic module into backup tokens only for HSM transfer, offline storage, and backup purposes. The Private Keys are encrypted when transferred out of the module and never exist in plaintext form. When transported between cryptographic modules, QuoVadis encrypts the Private Key and protects the keys used for encryption from disclosure. Private Keys used to encrypt backs are securely stored and require two person access. If QuoVadis becomes aware that an Issuing CA's Private Key has been communicated to an unauthorised person or an organization not affiliated with the Issuing CA, then QuoVadis will revoke all certificates that include the Public Key corresponding to the communicated Private Key.

If QuoVadis pregenerates Private Keys and transfers them into a hardware token, for example transferring generated endentity Subscriber Private Keys into a smart card, it wilsecurely transfer such Private Keys into the token to the extent necessary to prevent loss, theft, modification, unauthorized disclosure, or unauthorized use of such Private Keys

6.2.7. Private Key Storage On Cryptographic Module

CAPrivate Keys are generated and stored in a physically secure environment within cryptographic modules that are validated to FIPS 14@ Level-3. Root CAPrivate Keys are stored offline in cryptographic modules or backup tokens as described above in Sections 6.2.2, 6.2.4, and 6.2.6.

6.2.8. Method Of Activating Private Key

QuoVadis' Private Keys are activated according to the specifications of the HSM manufacturer. Activation data entry is protected from disclosure.

Subscribers are solely responsible for protecting their Private Keys in a manner commensurate with the Certificate Profile. Subscribers should use a strong password or equivalent authentication method to prevent unauthorized access or use of the Subscriber's Private Key. Subscriber he deactivated, Private Keys shall be kept in encrypted form only and secured. At a minimum, Subscribers are required to authenticate themselves to the cryptographic module before activating their Private Keys.

6.2.9. Method Of Deactivating Private Key TT1

QuoVadis documents and controls the configuration of its systems, including any upgrades or modifications made. Root Keys are kept

These different encodings of the same name are treated as equal values for the purposes of Common Name to Subject Alternative Name duplication requirements.

QuoVadisTechnically Constrained Subordinate CA Certificates include an Extended Key Usage (EKU) extension specifying all extended key usages for which the Subordinate CA Certificate is authorized to issue certificates. The anyExtendedKeyUsage KeyrPoseId does not appear in the EKU extension of publicly trusted certificates.

7.1.3. Algorithm Object Identifiers

QuoVadis Certificates are signed using one of the following algorithms others as approved in accordance with Section 1.1:

sha384WithRSAEncryption	[iso(1) member-body(2) us(840) rsadsi(113549) pkcs(1) pkcs1(1) 12]	
sha512WithRSAEncryption	[iso(1) member-body(2) us(840) rsadsi(113549) pkcs(1) pkcs1(1)	
	sha512WithRSAEncryption(13]	
sha256WithRSAEncryption	[iso(1) member-body(2) us(840) rsadsi(113549) pkcs(1) pkcs1(1) 11]	

7.2. CRL PROFILE

If present, this extension cannot be marked critical. Files extension must be present for Root CA or Issuing CA Certificate including Cross Certificates This extension may be presentor Certificates not technically capable of causing issuance, subject to the requirementate the CRLReason cannot be presented (0) or certificate Hold (6).

If a reasonCode CRL entry extension is present, the CRLReason must indicate the most appropriate reason for revocation of the certificate. QuoVadis uses the following reasonCode values from RFC 5280

- keyCompromise(1)
- cACompromise (2)
- affiliationChanged (3)
- superseded(4)
- cessationOfOperation (5)

7.2.1. Version Number

QuoVadis issue X.509 version 2 CRL that contain the following fields:

Field	Value
Issuer Signature Algorithm	sha-256WithRSAEncryption [1 2 840 113549 1 1 11] OR
	sha-384WithRSAEncryption [1 2 840 113549 1 1]DR
	sha-512WithRSAEncryption [1 2 840 113549 1 1 13 DR
	ecdsawith -sha256 [1 2 840 10045 4 3 2 DR
	ecdsawith-sha384 [1 2 840 10045 4 3 3]
Issuer Distinguished Name	QuoVadisIssuing CA name
thisUpdate	CRL issue date in UTC format
nextUpdate	Date when the next CRL will issue in UTC format.
Revoked Certificates List	List of revoked Certificates, including the serial number and revocation date
Issuer's Signature	[Signature]

7.2.2. CRLAnd CRLEntry Extensions

QuoVadis CRLs have the following extensions:

Extension	Value
CRL Number	Never repeated monotonically increasing integer
Authority Key Identifier	Subject Key Identifier of the CRL issucertificate
Invalidity Date	Optional date in UTC format

7.3. OCSP PROFILE

7.3.1. OCSPVersion Numbers

The QuoVadis OCSRespondersconform to version 1, as defined by RF6960. If an OCSP response is forher osu3.8 (e)-pg

7.5. CERTIFICATE FIELDS AND ROOT CA CERTIFICATE HASHES

7.5.1. Certificate Fields



7.5.2. QuoVadis Root Certificate Hashes

Note that all QuoVadis CA Certificates and CRLs are available for download from the QuoVadis Repository at <u>https://www.quovadisglobal.com/repository</u>.

7.5.2.1. QuoVadis Root CA 1 G3 Certificate Hashes

Field

9.2.4. Fiduciary Relationships

QuoVadis is not the agent, fiduciary or other representative of any Subscribænd/or Relying Party and must not be represented by the Subscribeand/or Relying Party to be soSubscribeas and/or Relying Parties have no authority to bind QuoVadis by contract or otherwise, to any obligation.

9.4. PRIVACY OF PERSONAL INFORMATION

9.4.1. Privacy Plan

QuoVadis follows the Privacy Noticeposted on its website when handling personal information. See <u>https://www.quovadisglobal.com/privacy -policy</u>. Personal information is only disclosed when the disclosure is required by law or when requested by the subject of the personal information. Such privacy judies shall conform to applicable local privacy lawsand regulations including the Council Directive 95/46/EC of the European Parliament and of the Council of 24 October 1996561 the Swiss Federal Act on Data Protection of June 19, 1992 (SR 235.1)

9.4.2. Informa tion Treated As Private

QuoVadistreats all personal information about an individual that is not publicly available in the contents of a Certificate or CRL as private informationQuoVadisprotects private information using appropriate safeguards and a reasonable degree of care.

9.4.3. Information Deemed Not Private

Subject to local laws, private information does not include CP/CPS and other Repository documents, Certificates, CRLs, or their contents.

9.4.4. Responsibility To Protect Private Information

QuoVadisemployees and contractors are expected to handle personal information in strict confidence and meet the requirements of US and European law concerning the protection of personal data. QuoVadis will not divulge any private Subscribeinformation to any third party for any reason, unless compelled to do so by law or competent regulatory authority. All sensitive information is securely stored and protected against accidental disclosure.

9.4.5. Notice And Consent To Use Private Information

In the course of accepting Certificate, individuals have agreed to allow their personal data submitted in the

QuoVadis hereby warrants (i) it has taken reasonable steps to verify that the **inf**mation contained in any Certificate is accurate at the time of issue (ii) Certificates shall be revoked if QuoVadis believes or is notified that the contents of the Certificate are no longer accurate, or that the Private Kassociated with a Certificate has been compromised in any way.

v) Promptly (a) request revocation of a Certificate, cease using it and its associated Private Key, and notify QuoVadis if there is any actual or suspected misuse or compromise of the Private Key

NEGLIGENCE), STRICT LIABILITY OR OTHERWISE, AND REGARDLESS OF WHETHER QUOVADIS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGE. NO CLAIM, REGARDLESS OF FORM, WHICH IN ANY WAY ARISES OUT OF THIS COPS, MAY BE MADE OR BROUGHT BY SUBSCRIBER OR SUBSCRIBER'S REPRESENTATIVES MORE THAN ONE (1) YEAR AFTER THE BASIS FOR THE CLAMESENDOWN TO SUBSCRIBER.

9.10.3. Effect Of Termination And Survival

The conditions and effect resulting from termination of **h**is CP/CPS will be communicated via the QuoVadis website upon termination. That communication will outline the provisions that may survive termination of this CP/CPS and remain in force. The responsibilities for protecting business confidential and private personal information shall survive termination, and the terms and conditions for all existing Certificates shall remain valid for the remainder of the validity periods of such Certificates.

9.11. INDIVIDUAL NOTICES AND COMMUNICATIONS WITH PARTICIPANTS

QuoVadisaccepts notices related to this CP/CPS at the locations specified in Section 2.2. Notices are deemed effective after the sender receives a valid and digitally signed acknowledgment of receipt from QuoVadis. If an acknowledgement of receipt is not received within five days, the sender must resend the notice in paper form

remedy, a judicial confirmation or challenge to an arbitration award or its enforcement, or unless otherwise required by law or judicial decision.

ii) Class Action and Jury Trial Waiver: THE PARTIES EXPRESSLWE/AHEIR RESPECTIVE RIGHTS TO

Customer is Domiciled in:	Governing Law is laws of:	Court or arbitration body with exclusive jurisdiction:
Europe, Switzerland, the United Kingdom, Russia, the Middle East or Africa	England	International Chamber of Commerce, International Court of Arbitration, with seat of arbitration in the below city corresponding to the QuoVadis contracting entity listed in the Order Form.
		For QV CH: Zurich For QV NL: Amsterdam For QV DE: Munich For QVBE/DigiCert Europe Brussels For QV UK: London
Japan	Japan	International Chamber of Commerce, International Court of Arbitration, with seat of arbitration in Tokyo
Australia or New Zealand	Australia	International Chamber of Commerce, International Court of Arbitration, with seat of arbitration in Melbourne
A Country in Asia or the Pacific region, other than Japan, Australia or New Zealand	Singapore	International Chamber of Commerce, International Court of Arbitration, with seat of arbitration in Singapore

9.15. COMPLIANCE WITH APPLICABLE LAW

This CP/CPS is subject to all applicable laws and regulations, including United States restrictions on the

9.16.3. Severability

If any provision of this CP/CPS is held invalid or unenforceable by a competent court or tribunal, the remainder of the CP/CPS will remainvalid and enforceable. Each provision of this CP/PS that provides for a limitation of liability, disclaimer of a warranty, or an exclusion of damages is severable and independent of any other provision.

9.16.4. Enforcement (Attorneys' Fees And Waiver Of Rights)

QuoVadismay seek indemnification and attorneys' fees from a party for damages, losses, and expenses related to that party's conduct. QuoVadisfailure to enforce a provision of this CPCPS does not waive QuoVadis' right to enforce the same provision later or right to enforce any other provision of this CPCPS. To be effective, waivers must be in writing and signed bQuoVadis

9.16.5. Force Majeure

QuoVadis is not liable for any delay or failure to perform an obligation under this CP/CPS to the extent that the delay or failure is caused by an occurrence beyond QuoVadis' reasonable control. The operation of the Internet is beyond QuoVadis' reasonable control.

To the extent permitted by applicable law, Subscriber Agreements drRelying Party Agreements shall include a force majeure clause protecting QuoVadiSee also Section 9.8.3 (Excluded Liability) above.

9.17. OTHER PROVISIONS

No stipulation.

Certificate Class	Description	Policy OID	Assurance Level	Requires token?
	Relevant to the Policy in ETSI EN 319 4112 for:			Adobe AATL Approved
	EUQualified Certificates issued to a natural person (QCPn-qscd), with the OID 0.4.0.194112.1.2	ETSI policy identifier OIDs: 0.4.0.194112.1.2 (QCPn-qscd)		
	EUQualified Certificates issued to a legal person (QGP I-qscd), with the OID 0.4.0.194112.1.3	0.4.0.194112.13 (QCPI-qscd)		
1	QuoVadis Qualified Certificate not on aQSCD	QuoVadis Certificate Class OID:		· · ·
	Relevant to the Policy in ETSI EN 319 4112 for:	1.3.6.1.4.970uE		
	EUQualified Certificates issued to a natural person (QCPn), with the OID 0.4.0.194112.1.0			
	EUQualified Certificates issued to a legal person (QGP I), with the OID 0.4.0.194112.1.1			

10.1.2. Key UsageAnd Escrow

Different QuoVadis Certificate Profiles may be issued with different key usages, and be eligibled ptional Key Escrow, according to the following table:

Certificate	Key Usage/	Applicability to QuoVadis Certificate Classe s			
Туре	Extended Key UsageOptions	QV Standard	QV Advanced	QV Advanced +	QV Qualified
Signing and Encryption	Key Usage digitalSignature nonRepudiation keyEncipherment Extended Key Usage smartcardlogon clientAuth emailProtection documentSigning enrolmentAgent	Allowed (Escrowonly permitted for certain Issuing CAs. Not permitted for any CAs on EUTL)	Allowed (Escrowonly permitted for certain Issuing CAs. Not permitted for any CAs on EUTL)	Allowed (Escrownot permitted)	Not Allowed
Signing	Key Usage digitalSignature	1	1	1	I I

10.2. QV STANDARD

Purpose

Standard Certificates provide flexibility for a range of uses appropriate to their reliance value including S/MIME electronic signatures, authentication, and encryption.

Registration Process

Validation procedures forQuoVadis Standard Certificates collect either direct evidence or an attestation from a appropriate and authorised source, of the identity (such as name and organisational affiliation) and other specific attributes of the Certificate Holder.

Attribute	Values	Comment
Subject	/CN (mandatory) (GN+SN or Pseudonym) /GN (mandatory if CNwithout Pseudonym) /SN (mandatory if CNwithout Pseudonym) Pseudonym (optional)	See definitions in Section7.1.1. Variable
	/O (optional) /OU (optional) / serialNumber (optional) /E (optional) /L (optional) /ST (optional) /C (mandatory)	
SAN	/E	I

Key Usage(Critical)

• Reference to a nationally recognized registration or other attributes which may be used to, as far a possible, distinguish the legal person from others with the same name.

If the Subscriberis a device or system operated by or on behalf of a legal person, evidence shall be provided df:

- identifier of the device by which it may be referenced (e.g. Internet domain name);
- full name of the organisational entity;
- a nationally recognized identity number, or other attributes which may be used to take far as possible, distinguish the organisational entity from others with the same name.

QuoVadis Advanced+ Certificates must be issued on a Secure Cryptographic Device either held by the Subscriber or managed by QuoVadis and adhere to the following reigements:

- SecureCryptographic Device storage, preparation, and distribution is securely controlled by CA or RA;
- User activation datais securely prepared and distributed separately from the Secure Cryptographic Device;
- If keys are generated under the Sulosiber's control, they are generated within the Secure Cryptographic Device used for signing or decrypting;
- The Subscriber's Private Key can be maintained under the subject's sole control; and
- Only use the Subscriber's Private Key for signing or decryptingith the Secure Cryptographic Device.

Attribute	Values	Comment
Subject	/CN (mandatory) = Natural Person (/GN+/SN or Pseudonym) = Legal Person (/O)	See definitions in Section7.1.1 Variable
	/GN (mandatory if CNwithout Pseudonym) /SN (mandatory if CNwithout Pseudonym)	Valiable
	Pseudonym (optional)	
	/O (optional) /OU (optional) /serialNumber (optional) /E (optional) /L (optional) /ST (optional) /C (mandatory)	
SAN	/E 1.3.6.1.4.1.311.20.2.3 UPN	Variable
Certificate Policies	1.3.6.1.4.1.8024.1.300 QV Advanced+ Certificat 0.4.0.2042.1.2ETSI NCP+ OI[0ptional]	Fixed
Adobe Acrobat Trust List	1.2.840.113583.1.1.9.1 Adobe Timetamp (link to TSA)	Optional
	1.2.840.113583.1.1.9.2 Adobe Archive RevInfo (long term validation)	
Key Usag∉(Critical)	digitalSignature (optional) nonRepudiation keyEncipherment (optional)	Variable
Extended Key Usage	clientAuth emailProtection documentSigning smartcardLogon	Variable (at least one is present)

10.4.1. Swiss Regulated Certificate issued to a Natural Person

Purpose

Swiss Regulated Certificate(non qualified) issued under the Swiss Federal signature law (ZertES) are included in the QuoVadis Advanced Certificate Class They are issued out of Swiss Regulated CAs and have the notice text "regulated certificate" in the CertificatePolicies user noticeSwiss Regulated Certificates can be issued to natural and legal persons

SwissQualified Certificates are described in the separate Section

Registration Process

SwissRegulatedCertificates are issued in accordance with the ertESrequirements using the QuoVadis Signing Service. The guidelines in TAVZERTES apply to the specification of SwißegulatedCertificates.

For the issuance and life cycle management of Sw**Rs**gulated Certificats, QuoVadis adheres to the same organisational and operational procedures and uses the same technical infrastructure as for a ZertEBMDied Certificate.

Evidence of theSubscriber'sidentity shall be checked against a physical person either directly, or shall have been checked indirectly using means which provide equivalent assurance to physical preseace ording to ZertES Only a valid passport or national ID is accepted as evidence of personal data is in accordance with ZertES.

Evidence shall be provided of:

• Full name A009 Tw -5.241 -1..7 ()3 d [(E)- olecto2.2 (f)7..9 (d) Tw -5.2]TJ 024141 -1..7 arecse eqo

- /T (optional) /O (optional) /OU (optional) /E (optional) /L (optional) /ST (optional) /C (mandatory)

10.5. QV QUALIFIED - EIDAS

10.5.1. eIDAS Qualified Certificate issued to a Natural Person on a QSCD

Purpose

The purpose of these EU Qualified ertificates are to identify the Subscriber with a high level of assurance, for the purpose of creating Qualified

Attribute	Values	Comment
Subject	/CN (mandatory) = Natural Person (/GN+/SN or Pseudon	iym)
	/GN (mandatory if CNwithout Pseudony /SN (mandatory if CNwithout Pseudony	,
	Pseudonym (optional)	
	/T (optional) /O (optional) /OU (optional) /serialNumber (optional) /E (optional) /L (optional) /ST (optional) /C (mandate	ory)
	If serialNumber is present then it must b structured per Section 5.1.3 of ETSI EN 1:	
	 3 character identity type reference (oBIDEC), ShIS 60.8 (2)]TJ 0 Tc 060 Tc 	-

id-etsi-qcs-QcSSCD (0.4.0.1862.1.4 id-etsi-qcs-4	esi4-qcStatement4: The private key related to the certified public key resides on a QSCD.	Fixed
id-etsi-qcs-QcType (0.4.0.1862.1.6) id-etsi-qcs-6	esi4-qcStatement6: Type of certificate id-etsi-qcs-QcType 1 = Certificate for electronic Signatures as defined in Regulation EU No 910/2014 eBid	Fixed

id-

• Evidence that theSubscriberis associated with the organisational entity.

The Subscriber's obligations (or respectively the obligations on the TSP managing the key on the bread of the require that the Private Key is maintained (or respectively is used) under the Brivate Sole control.

Attribute	Values	Comment
Subject	/CN (mandatory) = Natural Person (/GN+/SN or Pseudonym)	See definitions n Section7.1.1
	/GN (mandatory if CNwithout Pseudonym) /SN (mandatory if CNwithout Pseudonym)	Variable
	Pseudonym (optional)	
	/T (optional) /O (optional) /OU (optional) /serialNumber (optional) /E (optional) /L (optional) /ST (optional) /C (mandatory)	
	If serialNumber is present then it must be structured per Section5.1.3 of ETSI EN 319 412 1:	
	 3 character identity type reference (e.g. PAS or IDC); 	
	• 2 character ISO 3166 country code;	
	 hyphen-minus "-" (0x2D (ASCII), U+002D (UTF-8)); and 	
	• identifier.	
SAN	/E	Optional
Certificate Policies	1.3.6.1.4.1.8024.1.60 QV Qualifiedho QSCDor 1.3.6.1.4.1.8024.1.60 QV Qualified no QSCD on behalf of	Fixed
	0.4.0.194112.1.0 (QCPh)	
	URL: https://www.quovadisglobal.com/repository	
Key Usag∉Critical)	digitalSignature (optional) Nonrepudiation	Variable
	keyEncipherment (optional)	
Extended Key Usage	emailProtection clientAuth	Variable

qcStatements

id-etsi-qcs-QcCompliance (0.4.0.1862.1.1) idetsi-qcs-1 esi4-qcStatement1: Claim that the certificate is an EU Qualified Certificate in accordance with

id-etsi-qcs-QcType (0.4.0.1862.1.6) idetsi-qcs-6	esi4-qcStatement6: Type of certificate id-etsi-qcs-QcType 1 = Certificate for electronic Signatures as defined in Regulation EU No 910/2014	Fixed
id-etsi-qcs-QcPDS (0.4.0.1862.1.5) idetsi-qcs-5	URL= https://www.quovadisglobal.com/repository Language = EN	Fixed
id-qcs-pkixQCSyntaxv2 (1.3.6.1.5.5.7.11.2)	0.4.0.194121.1.1 (idetsi-qcs-semanticsId- Natural) (optional semantics identifier OID that is included in QuoVadis Certificates)	Fixed
id-etsi-qcs-QcCompliance (0.4.0.1862.1.1) idetsi-qcs-1	esi4-qcStaement-1: Claim that the certificate is an EU Qualified Certificate in accordance with Regulation EU No 910/2014	Fixed

10.5.3. eIDAS Qualified Certificate issued to a Legal Person on a QSCD

Purpose

The purpose of these EU Qualified ertificates are to identify the Subscriber with a high level of assurance, for the purpose of creating Qualified Electronic Seals meeting the qualification requirements defined by the eIDAS Regulation This type of QuoVadis Qualified Certificate uses a QSCD for the protection of the private key.

TheseCertificates meet the relevant ETSI "Flicy for EU qualified certificate issued to a legal person where the private key and the related certificate resideon a QSCD(QCPI-qscd). QuoVadis recommends that QQPqscd certificates are used only for electronic seals.

The content of these Certificate meet the relevant requirements of:

- ETSI EN 319 4121: Certificate Profiles; Part 1: Overview and common data structures
- ETSI EN 319 4122: Certificate Profiles; Part 3: Certificate profile for certificates issued to legal persons
- ETSI EN 319 4125: Certificate Profiles; Part 5: QCStatements
- ETSI TS 119 495: Qualified Certificate Profiles and TSP Policy Reepuents under the payment services Directive (EU) 2015/2366

Registration Process

Identity validation procedures for these Certificates meet the relevant requirements of ETSI EN 319 411

	 2 character ISO 3166 [7] country code representing the NCA country; 	
	 hyphen-minus "-" (0x2D (ASCII), U+002D (UTF-8)); and 	
	 2-8 character NCA identifier (AZ uppercase only, no separator) 	
	 hyphen-minus "-" (0x2D (ASCII), U+002D (UTF-8)); and 	
	 PSP identifier (authorisation number as specified by the NCA). 	
SAN	/E	Optional
Certificate Policies	1.3.6.1.4.1.8024.1.400 QV QualifiedQSCDor 1.3.6.1.4.1.8024.1.410 QV Qualified QSGDn behalf of 0.4.0.194112.1.3 (QCIP-qscd)	Fixed
	URL: https://www.quovadisglobal.com/repository	
Adobe Acrobat Trust List	1.2.840.113583.1.19.1 Adobe Timestamp (link to TSA)	Optional
	1.2.840.113583.1.1.9.2 Adobe Archive RevInfo (long term validation)	
Key Usage(Critical)	Nonrepudiation digitalSignature (optional)	Variable
Extended Key Usage	clientAuth (optional) emailProtection (optional) documentSigning(optional)	Variable (at least one is present)
qcStatements		
id-etsi-qcs-QcCompliance (0.4.0.1862.1.1) id-etsi-qcs-1	esi4-qcStatement1: Claim that the certificate is an EU Qualified Certificate in accordance with Regulation EU No 910/2014	Fixed
id-etsi-qcs-QcSSCD (0.4.0.1862.1.4 id-etsi-qcs-4	esi4-qcStatement4: The private key related to the certified public key resides on a QSCD.	Fixed
id-etsi-qcs-QcType (0.4.0.1862.1.6) id-etsi-qcs-6	esi4-qcStatement-6 : Type of cegJ ET QJ ET Q q	

10.5.4. eIDAS Qualified Certificate issued to a L egal Person

Purpose

The purpose of these EU Qualifie@ertificates are to identify the Subscriberwith a high level of assurance, for the purpose of creating Advanced Electronic Seals meeting the qualification requirements defined by the eIDAS Regulation.

TheseCertificates meet the relevant ETSIPolicy for EUqualified certificate issued to a legal person(QCPI). QuoVadis recommends that QGPcertificates are used only for electronic seals the content of theseCertificates meet the relevant requirements of:

- ETSI EN 319 42-1: Certificate Profiles; Part 1: Overview and common data structures
- ETSI EN 319 4122: Certificate Profiles; Part 3: Certificate profile for certificates issued to legal persons
- ETSI EN 319 4125: Certificate Profiles; Part 5: QCStatements
- ETSI TS 119 495: Qualified Certificate Profiles and TSP Policy Requirements under the payment services Directive (EU) 2015/2366

Registration Process

Identity validation procedures for these Certificates meet the relevant requirements of ETSI EN 319 421 for "Policy for EU qualified certificate issued to a legal person" (QGP. The identity of the legal person and, if applicable, any specific attributes of the person, shall be verified:

- I. by the physical presence by an authorised representative of the legal psen; or
- II. using methods which provide equivalent assurance in terms of reliability to the physical presence of an authorised representative of the legal person and for which QuoVadis can prove the equivalence. The proof of equivalence can be done according the Regulation (EU) N° 910/2014 [i.1].

Evidence shall be provided of:

- Full name of the organisational entity consistent with the national or other applicable identification practices); and
- When applicable, the association between the legal person and **tote** organisational entity identified in association with this legal person that would appear in the organisation attribute of the Certificate, consistent with the national or other applicable identification practices.

For the authorised representative of the legal person, evidence shall be provided of:

- Full name (including surname and given names consistent with applicable law and national identification practices); and
- Date and place of birth, reference to a nationally recognised identity document, other attributes which may be used to, aftar as possible, distinguish the person from others with the same name.

Additional steps to verify PSD2 specific attributes including name of the National Competent Authority (NCA), the PSD2 Authorisation Number oother recognized identifier, and PSD2 roles hese details are provided by the Certificate Applicant and confirmed by QuoVadis using authentic information from the NCA (e.g., using a national public register, EBA PSD2 Register, EBA Credit Institution Registor authenticated letter). QuoVadis also confirms the PSD2 role(s) of the Certificate Applicant (RolesOfPSP) in accordance with the rules for validation provided by the NCA, if applicable:

- i) account servicing (PSP_AS)
 OID: id-psd2-role-psp-as { 0.4.0.9495.1.1 }
- ii) payment initiation (PSP_PI)
 OID: id-psd2-role-psp-pi { 0.4.0.19495.1.2 }

- iii) account information (PSP_AI) OID: id-psd2-role-psp-ai { 0.4.0.19495.1.3 }
- iv) issuing of card-based paymiv 9.005a4.129dP 168 (ar1.94(imh)2.863)4.85(iv 0.005)TC/TT1 1 8 (5s(P)-903 (S)-6

- Any relevant existing registration information (e.g. company registration) of the organisational entity;
 - Authorisation from an authorised Organisation representative; and
- Evidence that the Subscriberis associated with the organisational entity.

Private Keys for Q\SwissQualified Certificates are generated and stored onraHSMor USB Tokerthat meets the ZertES requirementsFIPSPUB 1402, level 3 or EAL 4 standards. HSM for QuoVadis Signing Services are located in QuoVadis datacentre Access by the Subscribeto the keys is protected using multifactor authentication aimed to achieve the same level of assurance of sole control as achieved by a stated SSCD.

QVSwissQualified Certificates have a maximum validity of three years special usecases they are issued with a validity of only one hour.

Attribute	Values	Comment
Subject	/CN (mandatory) = Natural Person (/GN+/SN or Pseudonym)	See definitions in Section7.1.1
	/GN (mandatory if CNwithout Pseudonym) /SN (mandatory if CNwithout Pseudonym)	Variable
	Pseudonym (optional)	
	/T (optional) /O (optional) /OU (optional) /serialNumber (optional) /E (optional) /L (optional) /ST (optional) /C (mandatory)	
	If serialNumber is present then it must be structured per Section5.1.3 of ETSI EN 319 4 1:	412
	 3 character identity type reference (e.g. F or IDC); 	PAS
	• 2 character ISO 3166 country code;	
	 hyphen-minus "-" (0x2D (ASCII), U+002D (UTF-8)); and 	
	• identifier.	
SAN	/E	Variable
Certificate Policies	1.3.6.1.4.1.8024.1. 9	1

revocation if they can sufficiently prove compromise of the associated Private Key. Subscribers must request revocation as soon as possible. This should be within one working day after detection of loss or compromise of the Private Key pertaining to the Certificateor if the data in the Certificateis no longer valid. Proxy Certificates will be supported in relation to Grid Certificate A Grid Certificate number valid. Proxy Certificate is compromised in any way. The maximum Certificate Revocation List lifetime for Grid Certificates is 30 days.

Grid Certificate ReKeying can only take place if the Subscribes already in possession of a valid Grid Certificate and uses this Certificate to submit the ReKey request. Certificates can only be Refeyed for up to a maximum of 3 years, after which period the Subscribes required to apply for a new Certificate. If the Subscriberhas lost their Private Key, or if the existing Certificate has expired, they will need to apply for new Certificate.

10.7.1.1. Grid End User Certificate

Purpose

Grid technology provides the software infrastructure for sharing of computing resources across various domains. The purpose of a Grid Endster Certificate is to help the Subscribetto access the Grid services that require Certificate-based authentication.

Registration Process

The identity vetting of all Applicants must be performed by an approved RA. Face to face registrationequired at the RA or alternatively the Applicants can have their identity vetted at a post office providing an approved identity vetting service. The Applicant must present a valid photo ID and/or valid official documents in accordance with formally documented RA procedures. The RA is responsible for recording, at the time of validation, sufficient information regarding the Applicant to identify the Applicant. The RA is responsible for maintaining documented evidence on retaining the same identity over time. The Certificate request submitted for certification must be bound to the act of identity vetting.

Digital Certific ate Delivery

All successful Grid End User Certificate requests will be processed by the QuoVadis Grid Issuing CA. QuoVac will not generate the Private Keys for Grid End User Certificates software tokens are used, the Private Key must be protected with a strong pass phrase that follows current best practices for choosing high-12.1 (f)0.8 (i11on)26Te

Extended Key Usage	clientAuth	Fixed
	serverAuth	

10.8. QUOVADIS DEVICE

QuoVadis Device Certificates are intended for variety of uses including for Time-stamp Authority (TSA) applications. QuoVadis Device Certificates that have the serverAuth EKodmply with the CA/Browser Forum Baseline Requirements.

Registration Process

11. APPENDIXB

11.1. BUSINESS SSL

Field	Value	
Validity Period	1 or 2 years expressed in UTC format Effective September ,2020: maximum 397 days.	
Subject Distinguished Name		
Organisation Name	subject:organisationName (2.5.4.10)	
Organisation Unit	subject:organisationUnit (2.5.6.5)	
	Discontinued effectiveAugust 31, 2020	
Common Name	subject:commonName (2.5.4.3)	
	cn = Common name	
State or province (if any)	subject:stateOrProvinceName (2.5.4.8)	
Country	subject:countryName (2.5.4.6)	
Subject Public Key Information	2048-bit RSA key modulus, rsaEncryption (1.2.840.1135941.1.1)	
Signature Algorithm	sha256RSA (1.2.840.113549.1.1.11)	
Extension	Value	
Authority Key Identifier	c=no; Octet String-Same as Issuer's Subject Key Identifier	
Subject Key Identifier	c=no; Octet String-Same as calculated by CA fro RKCS#10	
Key Usage		

QuoVadis Certificates focus only on the identity of the Subject named in the Certificate, and not on the behaviour of the Subject. As such, Certificates are not intended to provide any assurances, or otherwise represent or warrant:

- That the Subject named in the Certificate is actively engaged in doing business;
- That the Subject named in the Certificate complies with applicable laws;
- That the Subject named in the Certificate is trustworthy, honest, or reputable in its business

Signature Algorithm	sha256RSA(1.2.840.113549.1.1.11)	
Extension	Value	
Authority Key Identifier	c=no; Octet String	
Subject Key Identifier	c=no; Octet String	
Key Usage	c=yes;	
	digitalSignature (80)	
Extended Key Usage	c=no;	
	1.3.6.1.5.5.7.33 (codeSigning)	
Field	Value	Comments

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Application Process

During the Certificate approval process, QuoVadis Validation Specialists employ controls to validate the identity of the Applicant and other information featured in the Certificate Application to ensure compliance with this CP/CPS.

Step 1: The Applicant provides a signed Certificate Application to QuoVadis, which includes identifying information to assist QuoVadis in processing the requ**ea**nd issuing the Certificate, along with a PKCS#10 CSR and billing details.

Step 2: QuoVadis independently verifies information using a variety of sources in accordance with the "Verification Requirements" Sectionabove.

Step 3: The Applicant accepts the Subscriber Agreementd approves Certificate issuance.

Step 4: All signatures are verified through followup procedures or telephone calls.

Step 5: QuoVadis obtains and documents further explanation or clarification as necessary to resolve discrepancies or details requiring further explanation. If satisfactory explanation and/or additional documentation are not received within a reasonable time, QuoVadis will decline the Certificate Request and notify the Applicant accordingly. Two QuoVadis Validation Spiedists must approve issuance of the Certificate.

Step 6: QuoVadis creates the Code Signing Certificate. Step 7: The Certificate is delivered to the Applicant.