

## QUALIFIED SIGNATURE CERTIFICATE POLICY

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Global Trusted Sign

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## 1. Introduction

### a) Scope

The purpose of this document is to present the Qualified Signature Certificates Policy of Global Trusted Sign Certification Authority, as a qualified service provider within the framework of Regulation No. 910/2014 (hereinafter referred to as GTS CA).

### b) Target Audience

This document should be read by:

- Human resources assigned to the GTS CA working groups;
- Third parties in charge of auditing the GTS CA;
- All the general public.

### c) Document Structure

This document follows the structure defined in RFC 3647. It is assumed that the reader is familiar with the concepts of cryptography, public-key infrastructures and electronic signature. If this situation does not occur, it is recommended to deepen the concepts and knowledge on the topics previously mentioned before proceeding with the reading of the document. It is not intended to name legal rules or obligations, but rather to inform, so this document is intended to be simple, direct and understood by a wide audience, including people with no technical or legal knowledge.

The first seven chapters describe the most important procedures and practices within the digital certification of the GTS PKI. Chapter eight describes the compliance audits. Chapter nine describes legal matters.

## 1.1. Overview

This document focuses on the definition of the profiles of Qualified Digital Signature Certificates for a Natural or Legal person. These certificates are issued by the GTS CA (Global Trusted Sign Certification Authority), enabling the assurance of reliability of the certificates. The certificates issued by the GTS CA contain a reference to the GTS CA Certification Practice Statement (CPS), being the CPS supplemented by this Certificate Policy.

The respective document is elaborated with reference to the Certification Authority Practice Statement, DP02\_GTS.

## 1.2. Document Name and Identification

This document is referred to as “Qualified Signature Certificate Policy”, and its associated OID is 1.3.6.1.4.1.50302.1.1.1.2.1.2”:

Document information	
<b>Document Name</b>	Qualified Signature Certificate Policy
<b>Document Version</b>	15.0
<b>Document Status</b>	Approved
<b>OID</b>	1.3.6.1.4.1.50302.1.1.1.2.1.2
<b>Date of Issue</b>	July 6 <sup>th</sup> , 2023
<b>Validity</b>	July 6 <sup>th</sup> , 2024
<b>Location</b>	<a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>

### 1.2.1. Revisions

Version Number	Creation	Approval	Reason
	06-07-2023	06-07-2023	
15	<b>Security Administration</b> Débora Sofia Vieira Rodrigues	<b>Management Group</b> Tolentino de Deus Faria Pereira	Update of point 4.9.7 addresses

### 1.2.2. Relevant Dates

History of document versions

Version ID	Version Date	Reason for new version
Version 1	25-01-2018	To present the Qualified Signature Certificate Policy of the Certification Authority of Global Trusted Sign, as a qualified service provider under regulation 910/2014
Version 2	09-02-2018	Update of certificate fields
Version 3	01-03-2018	Serial Number and Organization Identifier format update, to comply with ETSI 319 412-1
Version 4	08-01-2019	Update of new professional certificate profiles
Version 5	15-03-2019	Update of document validity and OCSP
Version 6	12-12-2019	New certificate profile of the Professional type, specific for “Physicians”
Version 7	18-05-2020	New certificate profile for signing e-mails
Version 8	02-06-2020	Addition of SUBCA 03 certificate
Version 9	17-09-2020	Update of GTS Trust Group registers and employees
Version 10	20-01-2020	Addition of new qualified certificate profile with authentication
Version 11	06-05-2021	Update of document structure according to RFC 3647
Version 12	22-07-2022	Annual verification
Version 13	14-02-2023	Update of the PKI hierarchy and structural review of the document

Version 14	04-07-2023	Annual verification of the document and update of values associated with telephone contacts
Version 15	06-07-2023	Update of point 4.9.7 addresses

### 1.3. PKI Participants

#### 1.3.1. Certification Authorities

ACIN-iCloud Solutions, acts as the Certification Authority, with the following corporate data:

Social denomination: ACIN-iCloud Solutions, Lda

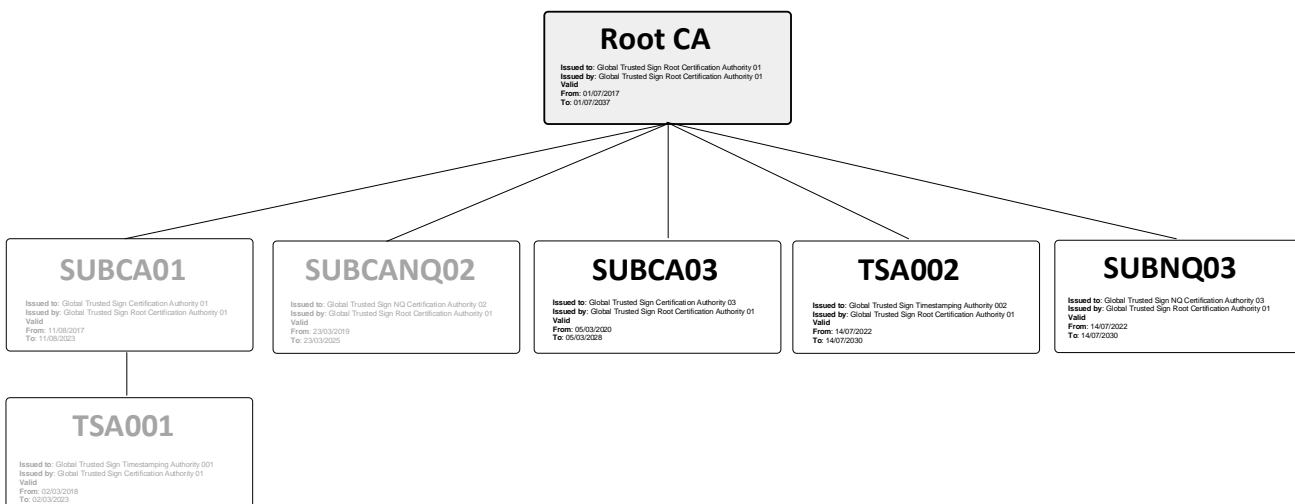
VAT Number: 511 135 610

Address: Estrada Regional 104, N° 42 A, 9350-203 Ribeira Brava

Phone Number: Local: 707 451 451<sup>1</sup> / International +351 291 957 888<sup>2</sup>

Web Page: [www.acin.pt](http://www.acin.pt)

GTS, as a qualified trust service provider, has a trust hierarchy accredited by the National Security Office -*Gabinete Nacional de Segurança*- (<http://www.gns.gov.pt/trusted-lists.aspx>), in accordance with the Portuguese and European legislation. The GTS trust hierarchy has a group of devices, applications, human resources and procedures required to implement diverse available certification services and to ensure the life cycle of certificates described in this document. The GTS trust hierarchy is composed by the GTS Root Certification Authority (GTS ROOT CA), the GTS Certification Authorities (GTS CA 01 – SUBCA01 and GTS CA 03 – SUBCA03), the GTS Non-Qualified Certification Authority (GTS NQ CA – SUBCANQ02 and SUBNQ03) and the GTS Time Stamps Certification Authority (GTS TSA GTS – TSA001 and TSA002).



<sup>1</sup>Maximum amount to be paid per minute: 0.09€ (+VAT) for calls from fixed networks and 0.13€ (+VAT) for calls from mobile networks.

<sup>2</sup> Coast of an international call to a fixed network, according to the current rate.

**Legend:**

- 1 – GTS Root CA – GTS Root Certification Authority
- 2 – SUBCA01 - Certification Authority
- 3 – TSA001 - GTS Timestamping Certification Authority
- 4 – SUBCANQ02 - GTS Non-Qualified Certification Authority
- 5 – SUBCA03– GTS Certification Authority
- 6 – TSA002 – GTS Timestamping Certification Authority
- 7 – SUBNQ03 – GTS Non-Qualified Certification Authority

**a) GTS Root Certification Authority (GTS ROOT CA)**

The GTS ROOT CA is a certification authority accredited by the National Security Office (*Gabinete Nacional de Segurança* -GNS), in accordance with European Regulation No. 910/2014, being legally authorised to issue certificates to Subordinated Certification Authorities.

GTS ROOT CA certificate:

Certificate information	
<b>Distinguished Name</b>	CN = Global Trusted Sign Root Certification Authority 01, OU = Global Trusted Sign, O = ACIN-iCloud Solutions, Lda, C = PT
<b>Signature Algorithm</b>	Sha256RSA
<b>Serie Number</b>	7d 9f 44 7c b2 77 97 a8 59 57 bf 11 dd 8f 99 f5
<b>Validity</b>	01/07/2017 a 01/07/2037
<b>Thumbprint</b>	70 d1 2e f7 f5 90 18 87 47 88 42 c6 4e 05 ef 2c 0a 63 92 9d
<b>Issuer</b>	CN = Global Trusted Sign Root Certification Authority 01, OU = Global Trusted Sign, O = ACIN-iCloud Solutions, Lda, C = PT

**b) GTS Certification Authority (GTS CA)**

The GTS Certification Authority issues:

✓ **Qualified certificates for Website authentication (SSL/TLS)**

Website authentication services provide means that guarantee website visitors that there is a genuine and legitimate entity responsible for the website. These services contribute trust security and building when conducting online business, as users trust websites that have been authenticated, through an authenticity, ownership and confidentiality guarantee of the information transmitted. The GTS CA

practice in issuing qualified certificates for website authentication meets CA/Browser forum requirements available at <http://www.cabforum.org>:

- Organization Validation: Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates;
- Extended Validation: Guidelines for the issuance and management of Extended Validation Certificates.

The validation of the domain of the requested certificates (domain owner, domain wild-card, and CAA Records) as defined in the CA/B Forum:

- Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates v1.8.4 chapter 3.2.2.

In case of inconsistency between this CP and these CA/B Forum Requirements, the latter will prevail.

✓ **Certificates for qualified electronic signature**

Certificates for qualified electronic signature enable the creation of qualified digital signatures in electronic documents with a legal effect equivalent to a handwritten signature, acting as a proof of issuance of an electronic document by a certain natural person and confirms, at least, his/her name or pseudonym, as well as the document integrity.

✓ **Certificates for electronic seals**

Certificates for electronic seals allow the creation of qualified digital signatures in electronic documents with the same legal effect of a handwritten signature, as it works as an electronic document proof of issuance by a certain legal person, certifying the document origin and integrity.

GTS CA certificates – SUBCA01:

Certificate Information	
<b>Distinguished Name</b>	CN = Global Trusted Sign Certification Authority 001, OU = Global Trusted Sign, O = ACIN-iCloud Solutions, Lda, C = PT
<b>Signature Algorithm</b>	Sha256RSA
<b>Serie Number</b>	5d f5 55 01 8c 89 45 56 59 8d cf d9 13 3b 87 ab
<b>Validity</b>	11/08/2017 a 11/08/2023
<b>Thumbprint</b>	2b 30 32 d4 9d 12 74 af 30 ab a3 ec 29 a6 a0 25 ae f6 dc bc
<b>Issuer</b>	CN = Global Trusted Sign Root Certification Authority 01, OU = Global Trusted Sign, O = ACIN-iCloud Solutions, Lda, C = PT

GTS CA certificates – SUBCA03:

Certificate Information	
<b>Distinguished Name</b>	CN = Global Trusted Sign Certification Authority 03, OU = Global Trusted Sign, O = ACIN-iCloud Solutions, Lda, C = PT
<b>Signature Algorithm</b>	Sha256RSA
<b>Serie Number</b>	1e 0a 5a 4e b2 45 99 3c 5e b9 2f 31 48 db 0c f6
<b>Validity</b>	11/05/2020 a 11/05/2028
<b>Thumbprint</b>	60 2f 17 18 96 72 78 f5 88 4f 33 16 f2 65 9b c1 f3 cc b2 46
<b>Issuer</b>	CN = Global Trusted Sign Root Certification Authority 01, OU = Global Trusted Sign, O = ACIN-iCloud Solutions, Lda, C = PT

**c) GTS Timestamping Certification Authority (GTS TSA)**

The GTS TSA is a chronological validation certification authority, authorised to issue qualified timestamps. Monitoring the issuance service of timestamps is intended to detect any major diversion larger than the requirements established by standard ETSI EN 319 421. All offsets between devices that support timestamps issuance service will be properly monitored, with the aim of identifying significant alarms that will be used to take corrective measures. The GTS TSA is responsible for operating in one or more TSU (*time-stamping unit*) to create and to sign timestamps on behalf of GTS. Each TSU has a distinct signature key, whose clock, used to issue timestamps is synchronized, is synchronised not only with the GTS's own atomic clock, but also, for redundancy purposes, with two other sources accredited in accordance with ETSI EN 319 421.



GTS TSA - TSA001 certificate:

Certificate Information	
<b>Distinguished Name</b>	CN = Global Trusted Sign Timestamping Authority 001, OU = Global Trusted Sign, O = ACIN-iCloud Solutions, Lda, C = PT
<b>Signature Algorithm</b>	Sha256RSA
<b>Serie Number</b>	04 bd 81 30 e4 ae 61 40 5a 99 43 db 7a 72 4f 47
<b>Validity</b>	02/03/2018 a 02/03/2023
<b>Thumbprint</b>	21 16 db 77 7e 72 fd 57 61 2a 24 27 8f d2 05 c8 bc fd a3 98
<b>Issuer</b>	CN = Global Trusted Sign Certification Authority 01, OU = Global Trusted Sign, O = ACIN iCloud Solutions, Lda, C = PT

GTS TSA - TSA002 certificate:

Certificate Information	
<b>Distinguished Name</b>	CN = Global Trusted Sign Timestamping Authority 002, OU = Global Trusted Sign, O = ACIN iCloud Solutions, Lda, C = PT
<b>Signature Algorithm</b>	sha256RSA
<b>Serie Number</b>	21 ee 9d 30 24 e9 0c 7e 62 cf f9 ac 3f f1 0c 08
<b>Validity</b>	14/07/2022 a 14/07/2030
<b>Thumbprint</b>	bf e9 50 86 06 35 80 b8 91 ea 42 e3 c1 e6 70 43 b5 3f 11 e4
<b>Issuer</b>	CN = Global Trusted Sign Certification Authority 01, OU = Global Trusted Sign, O = ACIN iCloud Solutions, Lda, C = PT

**d) GTS Non-Qualified Certification Authority (GTS NQ CA)**

The GTS NQ CA issues advanced certificates for the non-qualified signature of Global Trusted Sign, as trust service provider, that meet the requirements defined in Regulation (EU) No. 910/2014 (where applicable), ETSI EN 319 401, v2.2.1 and ETSI EN 319 411-1, v1.2.2.

GTS NQ CA - SUBCANQ02 certificate:

Certificate Information	
<b>Distinguished Name</b>	CN = Global Trusted Sign NQ Certification Authority 02, OU = Global Trusted Sign, O = ACIN-iCloud Solutions, Lda, C = PT
<b>Signature Algorithm</b>	Sha256RSA
<b>Serie Number</b>	7e 88 a8 ed 54 02 9f c6 5c 96 00 8e 0a cf bd c1
<b>Validity</b>	23/03/2019 a 23/03/2025
<b>Thumbprint</b>	7e 55 0f f3 8f 70 2e eb 5d 8f f0 e2 02 75 78 3f be 83 57 38
<b>Issuer</b>	CN = Global Trusted Sign Certification Authority 01, OU = Global Trusted Sign, O = ACIN iCloud Solutions, Lda, C = PT

GTS NQ CA - SUBCANQ03 certificate:

Certificate Information	
<b>Distinguished Name</b>	CN = Global Trusted Sign NQ Certification Authority 03, OU = Global Trusted Sign, O = ACIN iCloud Solutions, Lda, C = PT
<b>Signature Algorithm</b>	sha256RSA
<b>Serie Number</b>	5b 12 f7 4a cb ca 73 e0 62 cf f2 13 84 35 c5 64
<b>Validity</b>	14/07/2022 a 14/07/2030
<b>Thumbprint</b>	13 c5 be fc 66 be 0f fe 82 97 97 ec 44 5f a9 e4 96 d2 f1 a8
<b>Issuer</b>	CN = Global Trusted Sign Certification Authority 01, OU = Global Trusted Sign, O = ACIN iCloud Solutions, Lda, C = PT

### 1.3.2. Registration Authorities

The Registration Authority (RA) is the entity responsible for approving the distinguished names (DN) of the holders of certificates and evaluates the veracity of the documents and identity of the holders of the requests. Based on this evaluation, it accepts or rejects the request.

Additionally, the RA has the authority to approve the revocation of certificates.

The Global Trusted Sign Registration Authorities comply with the requirements set out in this document and are subject to independent External Audits, as well as to Internal Audits carried out on a regular basis at Global Trusted Sign.

The issuance of the digital certificates implies the acceptance of the Terms and Conditions in document FO23\_GTS - Terms and Conditions for Qualified Signature Certificates.

#### a) Internal Registration Authority

Within the scope of the Global Trusted Sign Certification Authority, the registration authority is implemented by its internal services, which have the responsibility to validate the required data, in accordance with each specific Policy of the services provided by Global Trusted Sign.

#### b) External Registration Authority

Global Trusted Sign does not have External Registration Authorities, since there is no contract with third parties to carry out domain validation of SSL certificates and of the identity of advanced and qualified certificates.

### 1.3.3. Subscribers

Within the scope of this certification practice statement, subscribers/holders are all final users to whom certificates have been attributed by the GTS PKI. The holders of certificates issued by GTS are considered those whose name is inscribed in the "*Subject*" field of the certificate and use it, as well as the respective private key in accordance with that set forth in the various certificate policies described in this document, with certificates being issued for the following categories of holders:

- Natural or legal person;
- Legal person (organizations);
- Services (computers, firewalls, etc.);
- The members of the working groups, namely the Security Administration, act as subscribers, taking responsibility for the correct use of the certificate, as well as for the protection and safeguard of the respective private key.

### 1.3.4. Relying Parties

The relying parties or recipients are natural persons, entities or equipment that trust in the validity of the mechanisms and procedures used in the association process of the name of the holder with its public key, that is, they trust that the certificate really corresponds to whom it says it belongs to. In this document, a relying party is considered to be that which trusts the content, validity and applicability of the certificate issued by the GTS PKI.

### 1.3.5. Other Participants

#### a) Supervisory Authority

The Supervisory Authority is the competent entity for the accreditation and supervision of certification authorities providing qualified trust services. At the national level, this function is performed by the National Security Office -*Gabinete Nacional de Segurança* (GNS)-. The supervisory authority contributes to the trust on qualified certificates, due to the functions exercised on the issuing Certificate Authority (CA). As part of its duties regarding Certification Authorities, the supervisory authority has the following tasks:

- **Notice of intent:** procedure to approve trust services conducted by qualified service providers, based on an assessment made of several parameters, such as physical security, hardware, software, access and operational procedures;
- **Conformity assessment body:** as a competent body to assess the conformity on trust services by qualified service providers;
- **Monitoring:** inspections are carried out to confirm that qualified and trusted service providers and trusted services comply with the requirements established on the EU Regulation No. 910/2014 of the European Parliament and of the Council.

#### b) External Entities

Activities of service providers that support GTS in its capacity of a qualified trust service provider are based on a contract to ensure the formal assignment of functions and responsibilities of each party, as well as the compliance with policies and practices established by GTS.

#### c) Conformity Assessment Body

The Conformity Assessment Body (CAB) is the entity defined in article 2, No. 13, of EU Regulation No. 765/2008, accredited in the terms of that regulation as being competent to assess the conformity of qualified trust service providers and trust services provided by them.

## 1.4. Certificate Usage

Certificates issued by the GTS PKI are used, by the different holders, systems, applications, mechanisms and protocols, in order to guarantee the following security services, namely:

- Authentication;
- Confidentiality;
- Integrity;
- Data Privacy;
- Non-Repudiation;
- Authenticity.

These services are obtained through public key cryptography, using the trust structure provided by the GTS PKI. Relying Parties can verify the chain of trust of a certificate issued by the GTS CA, thus guaranteeing the authenticity and identity of the holder. Qualified certificates issued by the GTS CA in accordance with this CP are qualified certificates in accordance with the requirements set forth in Regulation (EU) 910/2014.

### 1.4.1. Appropriate Certificate Uses

The requirements and rules defined in this document apply to all certificates issued by the GTS PKI.

#### a) Qualified Certificates for Website Authentication

Qualified certificates for website authentication issued by the GTS CA are used by different holders, systems, applications, mechanisms and protocols, in order to establish Web based data communication through SSL/TLS protocols. Qualified Certificates for Website Authentication are intended to:

- Identify the legal entity that controls a website: it provides reasonable assurance to the user of an Internet browser that the site to which the user will access is controlled by a legal entity identified in the certificate by its name, registered office, registration in the *Instituto de Registos e Notariado* (Institute of Registries and Notaries), or any other derived information;
- Allow encrypted communications with a website: it facilitates the exchange of encryption keys to allow transmission of encrypted information through Internet, between an Internet browser user and a website.
- Prevent phishing attacks and other frauds of the identity used in the certificates;
- Support companies that have been targeted in phishing or identity fraud by making available to users a tool for its identification;

- Support to the security forces in their investigations of phishing and other attacks of identity fraud, contributing, as appropriate, the contact, research, and legal actions against the Holder.

#### **b) Qualified Certificates for Signature and Electronic Seals**

Qualified certificates for electronic signature and electronic seals issued by GTS are used by different holders, systems, applications, mechanisms and protocols, in order to allow the probatory signature on documents by natural and legal persons. Qualified electronic signature certificates should be used for the creation of digital signatures in electronic documents with legal effect equivalent to a handwritten signature. This use serves as a prove of emission of an electronic document by a specific natural person and confirms, at least, his/her name or pseudonym, as well as the integrity of the document. In the case of certificates for electronic seals, the use is similar to qualified signature, however, issuance tests are applied to confirm their issuance by a legal person, certifying the origin and the integrity of the document. The subscriber is responsible for the content of all transactions made through the service.

#### **c) Advanced Certificates for signature and electronic seals**

Advanced digital certificates offer a high level of confidence; nevertheless, they do not guarantee the probative value of qualified certificates.

These certificates can be used to:

- Perform online authentication securely;
- Sign emails;
- Sign documents without legal probative value.

#### **1.4.2. Prohibited Certificate Uses**

Certificates issued in the GTS CA hierarchy of trust shall not be used for any purpose outside the scope of the uses described above, with the exception of being able to be used in other contexts when legally foreseen in the applicable legislation. The certification services provided by the GTS CA do not guarantee compliance with high availability and resilience requirements, which qualify them for use in critical services or infrastructures, such as those related to the operation of medical, nuclear, air traffic control, rail traffic control facilities, or any other activity where a failure could lead to death, personal injury or serious damage to the environment.

## 1.5. Policy Administration

### 1.5.1. Organization Administering the Document

The management of the GTS CA Certification Policy is responsibility of its Security Administration Group.

### 1.5.2. Contact Person

GTS Trusted Group	
Managers	Tolentino de Deus Faria Pereira José Luís de Sousa
Address	ACIN iCloud Solutions, Lda. Estrada Regional 104 N°42-A 9350-203 Ribeira Brava Madeira – Portugal
General e-mail	<a href="mailto:info@globaltrustedsign.com">info@globaltrustedsign.com</a>
Report e-mail	<a href="mailto:report@globaltrustedsign.com">report@globaltrustedsign.com</a>
Web Page	<a href="https://www.globaltrustedsign.com">https://www.globaltrustedsign.com</a>
Phone Numbers	National: 707 451 451 <sup>1</sup> International: + 351 291 957 888 <sup>2</sup> (Portuguese - Option 1 / English - Option 2; GTS - Option 6) <sup>1</sup> Maximum amount to be paid per minute: 0.09€ (+VAT) for calls from fixed networks and 0.13€ (+VAT) for calls from mobile networks. <sup>2</sup> Cost of an international call to a fixed network, according to the current rate.

When any of the grounds for revocation set out in point 4.9.1. is identified, it should be communicated to the above-mentioned contacts.

### 1.5.3. Person Determining CPS suitability for the policy

The Certification Policy (CP) should be internally applied, as well as audited by the Audit working group in order to ensure its conformity. This audit should produce a report, which must be submitted to the GTS CA Management Group, for its approval.

### 1.5.4. CPS Approval Procedures

The validation of this CP and all corrections or updates are performed by the GTS Security Administration. All corrections or updates are published as new versions of this CP, replacing any CP previously defined. The GTS Security Administration is responsible for determining when the changes on the CP will result in a change on the object identifiers (OID) of the CP. After validation, the CP is submitted to the GTS Trust Group, which is responsible for the approval and authorisation of the changes in this type of document.

## 1.6. Definitions and Acronyms

### 1.6.1. Definitions

Definitions	
Term	Definition
Electronic signature	Data in electronic form which is attached to or logically associated with other data in electronic form and which is used by the signatory to sign
Advanced electronic signature	An electronic signature which meets the following requirements: a) It is uniquely linked to the signatory; b) It is capable of identifying the signatory; c) It is created using electronic signature creation data that the signatory can, with a high level of confidence, use under his sole control; and d) It is linked to the data signed therewith in such a way that any subsequent change in the data is detectable
Authentication	Electronic process that enables the electronic identification of a natural or legal person, or the origin and integrity of data in electronic form to be confirmed
Certificate	Structure of electronic data signed by a certification service provider, which links the holder to the data of validation of signature that confirms his/her identity.
Certificate for Electronic Signature	Electronic attestation which links electronic signature validation data to a natural person and confirms at least the name or the pseudonym of that person
Certificate for Website Authentication	Attestation that makes possible to authenticate a website and links the website to the natural or legal person to whom the certificate is issued
Certificate for Electronic Seal	Electronic attestation that links e-seal validation data to a legal person and confirms the name of that person
Qualified Certificate for Electronic Signature	Certificate for electronic signatures, that is issued by a qualified trust service provider and meets the requirements laid down in Annex I of the European Regulation 910/2014.
Qualified Certificate for Website Authentication	Certificate for website authentication, which is issued by a qualified trust service provider and meets the requirements laid down in Annex IV of the European Regulation 910/2014.
Qualified Certificate for Electronic Seals	Certificate for electronic seals, that is issued by a qualified trust service provider and meets the requirements laid down in Annex III of the European Regulation 910/2014.
Private Key	Element of the asymmetric key pairs meant to be known only to its holder, on which the digital signature is added on the electronic document, or which deciphers a previously encrypted electronic document, with the corresponding public key.
Public Key	Element of the asymmetric key pairs meant to be released, on which the digital signature affixed on the electronic document is verified, or an electronic document is encrypted to be transmitted to the holder of the key pairs.



Definitions	
Term	Definition
Accreditation	An act whereby a service provider is recognised or requesting that the activity of the certification entity may be exercised in accordance with requirements set by European Regulation 910/2014.
Creator of a Seal	Legal person who creates an electronic seal.
Personal Identification Data	Set of data enabling to determine the identity of a natural or legal person, or that of a natural person representing a legal person.
Validation Data	Data that is used to validate an electronic signature or an e-seal.
Electronic Seal Creation Data	Unique group of data used by the creator of the e-seal to create an e-seal.
Electronic Signature Creation Data	Unique group of data used by the signatory to create an electronic signature.
Electronic Signature Creation Device	Configured <i>software</i> or <i>hardware</i> , used to create an electronic signature
Electronic Seal Creation Device	Configured <i>software</i> or <i>hardware</i> used to create an electronic seal.
Qualified Electronic Signature Creation Device	Electronic signature creation device that meets the requirements laid down in Annex II of the European Regulation 910/2014.
Qualified Electronic Seals Creation Device	Electronic seal creation device that meets <i>mutatis mutandis</i> the requirements laid down in Annex II of the European Regulation 910/2014.
Electronic Document	Any content stored in electronic form, in particular text or sound, visual or audio-visual recording.
Electronic Address	Identification of computer equipment, proper to receive and file electronic documents.
Certification Authority	Natural or legal person, accredited as a qualified service provider by the supervisory authority.
Registration Authority	Entity that approves Distinct Names (DN) of subordinated entities and, by assessing the request, approves or rejects the request.
Supervisory Authority	Appointed entity for the accreditation and inspection of certification authorities.
Hash Function	Operation done by a group of data in any size, so that the result is another fixed size group of data independent from its original size and is uniquely linked to initial data and ensures it is impossible to obtain distinct messages that manage the result when applying that function.
Hash or Fingerprint	Fixed size result obtained after the application of a hash function to a message that complies the requirement of being uniquely linked to initial data.
HSM	Cryptographic security module used to store keys and cryptographic operations in a secure way.
Electronic Identification	The process of using personal identification data in electronic form, representing uniquely either a natural or legal person, or a natural person representing a legal person.

<b>Definitions</b>	
<b>Term</b>	<b>Definition</b>
Public Key Infrastructure	Hardware, software, persons, processes and policies structure that uses digital signature technology to provide trusted third parties a verifiable association between the public component of an asymmetric pair of keys and a specific signatory.
CRL	Revoked certificates list created and signed by the Certification Authority (CA) that issued the certificates. A certificate is introduced on the list when has been revoked (for example, by suspecting the key's compromise). In certain circumstances, the CA can divide a CRL into smaller CRLs.
Electronic Identification Mean	A material and/or immaterial unit containing personal identification data and which is used for authentication for an online service.
OID	Unique alphanumeric/numeric identifier registered according to an ISO norm, to refer to a specific object or to a specific class of objects.
Conformity Assessment Body	A body defined in point 13 of Article 2 of Regulation (EC) No 765/2008, which is accredited in accordance with that Regulation as competent to carry out conformity assessment of a qualified trust service provider and the qualified trust services it provides.
Public Body	National, regional or local government body, a body subject to public law or an association formed by one or more of those entities or by a body subject to public law, or a private entity authorised by, at least, one of those authorities, bodies or associations as being of public interest, under the current mandate.
Relying Party	Relying parties or final recipients are natural or legal people that trust in the validity of mechanisms and procedures used in the linking process of a time stamp to a datum. In other words, they rely on the time stamp's accuracy.
Certificate Policy	Group of rules that indicate the certificate's applicability to a specific community and/or application class with common security requirements.
Trust Service Provider	Natural or a legal person who provides one or more trust services either as a qualified or as a non-qualified trust service provider.
Qualified Trust Service Provider	A trust service provider who provides one or more qualified trust services and is granted the qualified status by the supervisory body.
Product	Hardware or software, or relevant components of hardware or software, which are intended to be used for the provision of trust services.
Electronic Seal	Data in electronic form, which is attached to or logically associated with other data in electronic form to ensure the latter's origin and integrity.

<b>Definitions</b>	
<b>Term</b>	<b>Definition</b>
Advanced Electronic Seal	Electronic seal which meets the following requirements: a) it is uniquely linked to the creator of the seal b) it is capable of identifying the creator of the seal c) it is created using e-seal creation data that the creator of the seal can, with a high level of confidence under its control, use for e-seal creation; and d) it is linked to the data to which it relates in such a way that any subsequent change in the data is detectable.
Qualified Electronic Seal	Advanced electronic seal, which is created by a qualified electronic seal creation device, and that is based on a qualified certificate for electronic seal.
Qualified Timestamp	An electronic timestamp which meets following requirements: a) it binds the date and time to data in such a manner as to reasonably preclude the possibility of the data being changed undetectably b) it is based on an accurate time source linked to Coordinated Universal Time; and c) it is signed using an advanced electronic signature or sealed with an advanced electronic seal of the qualified trust service provider, or by some equivalent method.
Timestamps	Data in electronic form which binds other data in electronic form to a particular time establishing evidence that the latter data existed at that time.
Trust Service	Electronic service normally provided for remuneration which consists of: a) the creation, verification, and validation of electronic signatures, e-seals or electronic time stamps, electronic registered delivery services and certificates related to those services, or b) the creation, verification and validation of certificates for website authentication; or c) the preservation of electronic signatures, seals or certificates related to those services.
Qualified Trust Service	Trust service that meets the applicable requirements laid down in the European Regulation 910/2014.
Electronic Registered Delivery Service	Service that makes it possible to transmit data between third parties by electronic means and provides evidence relating to the handling of the transmitted data, including proof of sending and receiving the data, and that protects transmitted data against the risk of loss, theft, damage or any unauthorised alterations.

<b>Definitions</b>	
<b>Term</b>	<b>Definition</b>
Qualified Electronic Registered Delivery Service	Electronic registered delivery service which meets the following requirements: a) they are provided by one or more qualified trust service provider(s); b) they ensure with a high level of confidence the identification of the sender; c) they ensure the identification of the addressee before the delivery of the data; d) the sending and receiving of data is secured by an advanced electronic signature or an advanced e-seal of a qualified trust service provider in such a manner as to preclude the possibility of the data being changed undetectably; e) any change of the data needed for the purpose of sending or receiving the data is clearly indicated to the sender and addressee of the data; f) the date and time of sending, receiving and any change of data are indicated by a qualified electronic time stamp.
Signatory	Natural person that creates an electronic signature.
Electronic Identification System	Electronic identification system under which electronic identification means are produced for natural or legal people or for natural people in representation of legal people.
Holder	See Signatory.
User	Natural or legal person that uses electronic identification or a trust service.
Validation	Process of verifying and confirming that an electronic signature or a seal is valid.
Chronological Validation	Declaration of a TSA that certifies the date and hour of creation, expedition or reception of an electronic document.
High Security Zone	Access controlled area in which an entry point is limited to authorised staff duly accredited and visitors properly accompanied. High security zones must be closed around its perimeter and watched 24 hours a day, 7 days a week, by security personnel, other personnel or by electronic means.

### 1.6.2. Acronyms

Acronyms	
C	Country
CN	Common Name
DN	Distinguished Name
CPS	Certification Practice Statement
RD	Regulatory Decree
CA	Certification Authority
RA	Registry Authority
GNS	National Security Office -Gabinete Nacional de Segurança-
GTS	Global Trusted Sign
HSM	Hardware Secure Module
CRL	Certificate Revocation List
O	Organization
OU	Organization Unit
OID	Object Identifier
CP	Certificate Policy
PKCS	Public-Key Cryptography Standards
PKI	Public Key Infrastructure
SSL/TLS	Secure Sockets Layer / Transport Layer Security

### 1.6.3. References

- ✓ DP02\_GTS\_ GTS EC Certification Practice Statement;
- ✓ PC01\_GTS - Process of Issuance of Qualified Signature Certificates;
- ✓ Regulation (EU) No 910/2014 of the European Parliament and of the Council of 23 July 2014 on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC;
- ✓ ETSI EN 319 411-1 v.1.2.2: Policy and security requirements for Trust Service Providers issuing certificates; Part 1: General Requirements;
- ✓ ETSI EN 319 411-2 v.2.2.2: Policy and security requirements for Trust Service Providers issuing certificates; Part 2: Requirements for trust service providers issuing EU qualified certificates;
- ✓ ETSI 319 412 v1.4.2: Electronic Signatures and Infrastructures (ESI); Certificate Profiles;
- ✓ ETSI EN 319 401 v2.2.1: General policy requirements for Trust Service Providers;
- ✓ RFC 5280: Internet X.509 Public key Infrastructure Certificate and Certificate and CRL Profile, 2008;
- ✓ RFC 3647 - Internet X.509 Public Key Infrastructure – Certificate Policy and Certification Practices Framework, 2003;
- ✓ CA/Browser Forum: Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates, v.1.8.4.

### 1.6.4. Conventions

No stipulation.

## 2. Publication and Repository Responsibilities

### 2.1. Repositories

The GTS CA provides a repository, in web environment, with information regarding practices adopted and the status of certificates issued, namely:

**a) GTS Root Certification Authority (GTS ROOT CA)**

- GTS ROOT CA Certificate;
- GTS ROOT CA Certificate Revocation List (CRL);
- GTS ROOT CA Certification Practice Statement (CPS);
- GTS ROOT CA Certificate Policies (CP);
- Other relevant information.

**b) GTS Certification Authority (GTS CA)**

- GTS CA Certificate;
- GTS CA Certificate Revocation List (CRL);
- GTS CA Certification Practice Statement (CPS);
- GTS CA Certificate Policies;
- Other relevant information.

**c) GTS Timestamping Certification Authority (GTS TSA)**

- GTS TSA Certificate;
- GTS TSA Certification Practice Statement (CPS);
- GTS TSA Certificates Policies;
- Other relevant information.

**d) GTS Non-Qualified Certification Authority (GTS NQ CA)**

- GTS NQ CA Certificate;
- GTS NQ CA Certificate Revocation List (CRL);
- GTS NQ CA Certification Practice Statement (CPS);
- GTS NQ CA Certificates Policies;
- Other relevant information.

### 2.2. Publication of information

The repository of the different certification authorities can be accessed 24x7 at:

- <https://pki.globaltrustedesign.com/index.html>
- <https://pki02.globaltrustedesign.com/index.html>.

The repository will be updated when an amendment is made to any published documents.

### **2.3. Time or Frequency of Publication**

The GTS CA conducts the following publications, with the following frequency of publication:

- GTS CA certificate is published after its issuance;
- The CRL is published quarterly;
- New versions or amendments of CPS and/or respective Certificate Policies (CP), are published after approval by the Management Group.

### **2.4. Access Controls on Repositories**

The following security access control mechanisms have been implemented:

- Any amendments to the information published in the repository is done through formal procedures of document management;
- The technological infrastructure that supports the repository and its publications is in conformity with the good practices of information security, including physical requirements, as well as the management by a team with skills required to perform those activities;
- It is guaranteed that the access to the information contained in the repository is carried out, only and exclusively, in read mode. To that end, security mechanisms have been implemented to ensure that only authorised persons may write or modify the information contained in the repositories.

## **3. Identification and Authentication**

### **3.1. Naming**

The GTS CA ensures the issuance of certificates with a Distinguished Name (DN) X.509 to all holders who submit documentation containing a verifiable name according to what is set in RFC 5280. The allocation of names follows the conventions below:

- Certificates for website authentication assign a qualified name of the domain and/or trust service, according to ETSI EN 319 412-4 v1.1.1;
- Certificates for qualified signature of natural persons assign the real name of the holder, according to ETSI EN 319 412-2 v2.2.1;



- Certificates for qualified signature of natural persons in association with legal persons assign the name of the holder and the relationship with the legal person, according to ETSI EN 319 412-2 v2.2.1;
- Certificates for electronic seals assign the name of the legal person, according to ETSI EN 319 412-3 v1.2.1.

Name allocation complies with the requirements specified in the certificate policies, being identified in document DP02, section 3.1:

### 3.1.1. Types of Names

The GTS CA guarantees that the allocation of names complies with the requisites specified in the certificate policies for each type of profile presented. The various types of certificates may contain the following fields in the DN:

#### a) Natural Person

Attribute	Code	Value
Country	C	<Holder's country>
Organization	O	<Legal name of the natural person> OR <Pseudonym>
Organization Unit	OU	RemoteQSCDManagement
Common Name	CN	<Name of the certificate's holder>
Surname	SN	<Holder's surname>
Given Name	G	<Part of the holder's name that is not his/her surname nor any middle names>
Serial Number	serialNumber	Unique identifier of the natural person. IDC format<country's code>-<Civil identification of the natural person>

#### b) Legal Person

Attribute	Code	Value
Country	C	<Holder's country>
Organization	O	<Name of the organization>
Organization Unit	OU	RemoteQSCDManagement
Common Name	CN	<Name of the certificate's holder>

Surname	SN	<Holder's surname>
Given Name	G	<Part of the holder's name that is not his/her surname nor any middle names>
Organization Identifier	OrganizationIdentifier	Unique identifier of the legal person, other than the name of the organization. (2.5.4.97) VAT format<country's code>-<TIN of the legal person> (According to 5.1.4 of the ETSI 319 412-1)
Serial Number	serialNumber	Unique identifier of the natural person. IDC format<country's code>-<Civil identification of the legal person>

**c) Natural Person – Professional**

Attribute	Code	Value
Country	C	<Holder's country>
Organization	O	<Legal name of the natural person> OR <Pseudonym>
Organization Unit	OU	RemoteQSCDManagement
Organization Unit	OU	<Description of the professional association>
Organization Unit	OU	<Professional association code>-<Professional license number>
Organization Unit	OU	Job description
Organization Unit	OU	Name of the organization where he/she works
Common Name	CN	<Name of the certificate's holder>
Surname	SN	<Holder's surname>
Given Name	G	<Part of the holder's name that is not his/her surname nor any middle names>
Serial Number	serialNumber	Unique identifier of the natural person. IDC format<country's code>-<Civil identification of the natural person>

**d) Legal Person – Professional**

Attribute	Code	Value
Country	C	<Holder's country>
Organization	O	<Legal name of the Organization>
Organization Unit	OU	RemoteQSCDManagement

Organization Unit	OU	<Description of the professional association>
Organization Unit	OU	<Professional association code>-<Professional license number>
Organization Unit	OU	Position description
Organization Unit	OU	<Area/Department description>
Common Name	CN	<Name of the certificate's holder>
Surname	SN	<Holder's surname>
Given Name	G	<Part of the holder's name that is not his/her surname nor any middle names>
Organization Identifier	OrganizationIdentifier	Unique identifier of the legal person, other than the name of the Organization. (2.5.4.97) VAT format<country's code>-<TIN of the legal person> (According to 5.1.4 of ETSI 319 412-1)
Serial Number	serialNumber	Unique identifier of the natural person. IDC format<country's code>-< Civil identification of the natural person representing the legal person>

**e) Natural Person – Professional “Physician”**

Attribute	Code	Value
Common Name	CN	<Name of the certificate's holder>
Organization Unit	OU	RemoteQSCDManagement
Organization Unit	OU	<Description of the professional association>
Organization Unit	OU	Unique identifier of the natural person. IDC format<country's code>-<Civil identification of the natural person>>
Organization Unit	OU	Job description
Organization Unit	OU	Name of the organization where he/she works
Given Name	G	<Part of the holder's name that is not his/her surname nor any middle names>
Surname	SN	<Holder's surname>
Serial Number	serialNumber	<Professional association code>-<Professional license number>
Organization	O	<Legal name of the Organization>
Country	C	<Holder's country>

### 3.1.2. Need for Names to be Meaningful

The GTS CA ensures that the names used in the certificates it issues identify in a significant and clear manner their holders, ensuring that the DN used is appropriate for a certain holder and that the *Common Name* component of the DN represents it in a manner that can be easily identified by the interested parties.

### 3.1.3. Anonymity or Pseudonymity of Subscribers

The GTS CA does not allow the anonymity of holders in the certificate issuance process.

### 3.1.4. Rules for Interpreting Various Names Forms

The rules used by the GTS CA to interpret the name format follow that established in *RFC5280 Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile*, thus guaranteeing that all *DirectoryString* attributes of the issuer and subject fields of the certificate are encoded in a UTF8String, with the exception of the country and serialnumber attributes which are encoded in a *PrintableString*.

### 3.1.5. Uniqueness of Names

In the GTS CA, there are controls that ensure that the DN and the *KeyUsage* extension content are unique, unambiguous and related only to one entity, thus guaranteeing the rejection of certificates issued by it that, having the same unique name, identify distinct entities.

### 3.1.6. Recognition, Authentication and Role of Trademarks

DNs issued by the GTS CA are unique for each holder and take into account the registered trademarks, not allowing the deliberate use of registered names whose entity cannot prove it has the right to the trademark, and may refuse to issue the certificate with registered trademark names if it concludes that another identification is more convenient. Before issuing the certificate, during the authentication procedure, the entity/holder shall present documents that demonstrate the right to use the requested DN.

## 3.2. Initial Identity Validation

In order for the qualified certificates of the Certification Authorities to be issued in the GTS trust hierarchy, it is mandatory that the GTS CA verifies the request and the parameters associated to it.

### **3.2.1. Method to Prove Possession of Private Key**

In cases in which the GTS CA is not the entity responsible for generating the cryptographic pair of keys to attribute to the user, the latter, before issuing it, shall assure that the user possesses the private key corresponding to the public key included in the certificate request. The method of proof shall necessarily be more complex and precise according to the importance of the type of certificate requested, being documented in the Certificate Policy of the certificate in question.

### **3.2.2. Authentication of Organization and Domain Identity**

DNs issued by the GTS CA take into account the trademarks, not allowing the deliberate use of registered names whose entity cannot prove it has the right to the trademark, and may refuse to issue the certificate with registered trademarks if it concludes that another identification is more convenient.

In document DP02 more details are identified regarding the authentication of the organization.

#### **3.2.2.1. Identity**

Before issuing and making available a certificate issued for a legal or natural person with the attribute of association with an entity, it is necessary to authenticate the data regarding the creation and legal person of the entity.

For these certificates, the identification of the entity is required in all cases, for which the RA shall require the relevant documentation depending on the type of entity.

The relevant documentation may be found on the Globaltrustedsign website, in the corresponding certificate information section.

In the case of entities located outside the Portuguese territory, the documentation to be submitted will be that of the Official Registry of the respective country, duly apostilled and officially translated into Portuguese or English, whenever there are doubts regarding the documentation or the entity.

This verification is done through an analysis of the legal regime applicable to the applicant entity and through consultation of the records of the business activity of the market or through the physical delivery of the notarial deeds that prove all the information.

In addition, it is also verified:

- That the data or documents provided are within the validity period.
- That the legal existence of the organization is at least 1 year.

- That they are not eradicated companies in countries where there is a government ban on doing business or on a BCFT risk related list.

#### **3.2.2.2. DBA/Tradename**

See section 3.1.6.

#### **3.2.2.3. Verification of Country**

See section 3.2.2.

#### **3.2.2.4. Validation of Domain Authorization or Control**

For each **domain**, it is confirmed that the applicant has control over that domain by means of a verification at the registry at <https://www.whois.net> and/or <https://www.dns.pt>

#### **3.2.2.5. Authentication for an IP address**

For each IP address, it is confirmed that the applicant has control over that address by a verification in the registry at <https://www.ripe.net> or <https://whois.arin.net/>

#### **3.2.2.6. Wildcard Domain**

GTS does not issue Wildcard certificates

#### **3.2.2.7. Data Source Accuracy**

GTS has a list of reliable sources to analyse the data prior to issuing the certificates.

#### **3.2.2.8. CAA Records**

The verification of CAA Records is done through the tool <https://www.entrustdatacard.com/products/categories/ssl-certificates/caa-tool>

For further information please see section 4.2.1.

### 3.2.3. Authentication of Individual Identity

The verification of the identity of the subscribers and/or holders will be carried out by the working group of Administrators, after confirmation of payment and document validation, and can be done in the following ways:

- In person, in Portuguese or in English, (at the headquarter of the company in Madeira Island, at the premises of the company in: Lisbon, Oporto and Ponta Delgada), by appointment, accompanied by the original identification document, with two registry administrators present in this act (paragraph a, No. 1, article 24 of Reg.910 / 2014), or
- Remote, using electronic identification means, through videoconference, in Portuguese or English, (through software certified for this purpose), by appointment, ensuring the physical presence of the natural person or of an authorised representative of the legal person, with the presence of the original identification document, before issuing the qualified certificate, complying with the requirements set forth in article 8 of Regulation 910/2014 in relation to the “substantial” or “high” guarantee levels and Resolution 154/2017 of the GNS, (paragraph b, No. 1, of article 24 of Reg. 910/2014), or
- Using the authentication certificate of the Portuguese identity card and/or *chave móvel digital*, through the [autenticacao.gov.pt](http://autenticacao.gov.pt) portal (only available to Portuguese citizens, with documents/compatible digital certificate), or
- Through a qualified electronic signature certificate or a qualified electronic seal issued under the terms of the previous paragraph (paragraphs c, d, No. 1, of article 24 of Reg.910/2014), applicable for renewals.

Document DP02 shows how identity authentication is carried out according to the type of person.

#### a) Natural Person Identification

If the holder is a natural person, the identity may be verified through:

- Names and surnames (in accordance with national practices for the identification of persons);
- Date and place of birth;
- Nationally recognized identification document that allows to distinguish the holder from others with the same name;
- Documents with probative value equivalent to physical presence.

If the holder is a natural person in associated with a legal person:

- Names and surnames (in accordance with national practices for the identification of persons);
- Date and place of birth;
- Nationally recognized identification document that allows to distinguish the holder from others with the same name;
- Documents with probative value equivalent to physical presence;
- Full name and data of the legal person;
- Evidence of the association of the physical person with the legal person that will appear in the attributes of the certificate.

If the holder is a natural person of the Professional Type:

- Names and surnames (in accordance with national practices for the identification of persons);
- Date and place of birth;
- Nationally recognized identification document that allows to distinguish the holder from others with the same name;
- Documents with probative value equivalent to physical presence;
- Indication with evidence of the Profession exercised;
- License number of the professional association and submission of proofs;
- Organization / Entity where the profession is practiced, with evidence to be submitted.

#### **b) Legal Person Identification**

If the holder is the representative of a legal person, the identity may be verified through:

- Names and surnames of the applicant (in accordance with national practices for the identification of persons);
- Date and place of birth;
- Nationally recognized identification document that allows to distinguish the holder from others with the same name;
- Documents with probative value equivalent to physical presence;
- Data of the legal person:
  - Full name of the legal person;
  - Address;
  - Tax identification number (TIN);



- Access code of the Electronic Commercial Registry (where applicable) or minutes of taking office, accompanied by the statutes.
- In case the applicant is not the legal representative of the legal person, a power of attorney for issuing the electronic seal is requested.

If the holder is a natural person of the professional type in association with a legal person:

- Names and surnames (in accordance with national practices for the identification of persons);
- Date and place of birth;
- Nationally recognized identification document that allows to distinguish the holder from others with the same name;
- Documents with probative value equivalent to physical presence;
- Full name and data of the legal person;
- Evidence of the association of the natural person with the legal person that shall appear in the attributes of the certificate;
- License number of the professional association and submission of proofs;
- Exercised Responsibilities/Position;
- Area/Department to which belongs.

**c) Device or System Identification**

Registration and authentication process will be guaranteed by the Registry Administration Working Group to properly register final users of the certificate, through all necessary means for an adequate and legal identification of the applicant. Among the actions to be taken to meet this goal, are the following:

- Verification of documents officially recognized by the State in which the Subscriber (natural or legal person) is registered;
- Full name;
- Contact information, including contact address;
- Unique and legal identification.

Identification must be authenticated through tests of identity in accordance with the following provisions:

- To be officially recognized in the jurisdiction in which the subscriber is registered;
- To indicate the complete Subscriber name and address official;
- To have at least a proof of identity that contains a photograph of the subscriber;
- To indicate a unique registry number within the jurisdiction that had been issued.

GTS will verify if each candidate has the right or privilege to obtain the certificate in question. In order for qualified certificates for website authentication with *extended validation* to be issued in the GTS trust hierarchy, it is mandatory that the GTS CA verifies the identity and address of the requesting legal person, and that the indicated address is the one in the articles of association, or where its activity is carried out.

#### **3.2.4. Non-Verified Subscriber Information**

All information in the certificate is verified.

#### **3.2.5. Validation of Authority**

See Organization and Domain Identity Authentication, section 3.2.2 and Individual Identity Authentication, section 3.2.3.

#### **3.2.6. Criteria for Interoperation or Certification**

Certificates issued on the GTS PKI are issued under a single trust hierarchy.

In order to ensure total interoperability between applications that use digital certificates, it is recommended to use only alphanumeric characters with no graphic accentuation, space, underline, minus symbol and full stop ([a-z], [A-Z], [0-9], ' ', '\_', '-', '.') on X.500 directory inputs.

### **3.3. Identification and Authentication for Re-Key Requests**

#### **3.3.1. Identification and Authentication for Routine Re-Key**

Many public key infrastructures allow automatic updating of certificates for a subscriber before the expiration of the validity date of the current certificate. This action is known as routine renewal and is possible at the moment when there is already a trust relationship with the underwriter. The renewal is treated as a new issuance request by the GTS CA.

#### **3.3.2. Identification and Authentication for Re-Key after Revocation**

The renewal is treated like a new issuance request by the GTS CA. GTS requires the subscriber to use the same authentication details used in the original certificate request.

### **3.4. Identification and Authentication for Revocation Request**

The revocation request must comply with the conditions described in detail in section 4.10.

## **4. Certificate Life-Cycle Operational Requirements**

### **4.1. Certificate Application**

A request to the GTS CA for the issuance of certificates begins with the completion of a form, designed for each type of certificate supported and with the acceptance of the terms and conditions established by the GTS CA, duly signed by the holder in handwritten form and which in this case implies that original documents are sent by post to GTS or in digital form, with recourse to a qualified signature.

#### **4.1.1. Who Can Submit a Certificate Application**

Certificate subscription requests may be submitted by:

- The certificate holder;
- A representative of the certificate holder, duly authorized by a power of attorney to that aim;
- A legal person who is the holder of the certificate;
- A GTS representative.

#### **4.1.2. Enrollment Process and Responsibilities**

After receiving the documentation, a process of validation of the information and identity of the holder and, when applicable, requesting entity is initiated. This process is always carried out by 2 Registry Administrators, with the purpose of verifying the authenticity of the data provided, depending on the type of certificate requested. GTS does not use external registration entities to provide the registration service. In the case of Web/SSL certificates, the form shall be accompanied during its submission, by a CSR (Certificate Signing Request) that shall contain information for the certificate fields, which shall coincide with the fields entered in the form.

Note: A certificate request does not imply its obtainment in case the applicant does not meet the requirements established in this CP. Accepted or rejected submitted requests shall be stored and preserved by a minimum period of 7 years, in accordance with CAB Forum section 5.5.2.

### **4.2. Certificate Application Processing**

#### **4.2.1. Performing Identification and Authentication Functions**

As soon as GTS receives the certificate issuance request form, as well as the necessary information for issuing the request, it shall proceed to validate all information provided in order to verify the

authenticity of the data. The documents must be submitted in Portuguese or in a comprehensible foreign language, such as, for example, English.

#### **4.2.2. Approval or Rejection of Certificate Applications**

Certificate requests shall only be accepted if all request data is authentic. In case of information contained in the evaluation process, the application shall be rejected, and the party responsible for the same shall be informed.

#### **4.2.3. Time to Process Certificate Applications**

The time limit for issuing the certificate is indicated in the specific terms and conditions for this type of certificate in document FO23.

### **4.3. Certificate Issuance**

The certificate issuance process is carried out by the GTS CA Registration Administrators through a specific procedure for that purpose. The certificates are issued through the interaction of the GTS CA with a cryptographic module in hardware (Hardware Secure Module - HSM). The issued certificate begins its validity at the moment it is issued. In the case of certificates for website authentication, the issued certificate begins its validity at the moment it is issued.

#### **4.3.1. CA Actions during Certificate Issuance**

The certificate issuance process is carried out by two Registry Administrators, resorting to double authentication with the purpose of verifying the authenticity of the data supplied, depending on the type of certificate requested. The certificates are issued through the interaction of the Certification Authority with a cryptographic module in hardware (Hardware Secure Module - HSM), based on the type of applicable certificate policy.

The public key certificate is stored in the HSM. In the case of certificates for website authentication, the issued certificate begins its validity at the moment it is issued and the subscriber of the certificate is notified via electronic mail, and the public key certificate is sent through this channel.

The qualified signature certificates are issued through the interaction of the Certification Authority with a cryptographic module in hardware (Hardware Secure Module - HSM), based on the type of applicable certificate policy. The public key certificate is stored in the HSM. The sending of the certificate requires an acceptance which is carried out in accordance with section 4.4.

In the case of qualified signature certificates, the issuance of the certificate is carried out by the holder after verification of the identity of the holder at the time of issuance through:

- Access credentials to the GTS Portal
- Reception of the OTP code to the email configured in the holder registration

The subscribers have 180 days to issue any type of certificate, otherwise they will have to repeat the videoconference.

#### **4.3.2. Notification to Subscriber by the CA of Issuance of Certificate**

The subscriber of the certificate is notified via electronic mail, and the public key certificate is sent through this channel.

### **4.4. Certificate Acceptance**

#### **4.4.1. Conduct Constituting Certificate Acceptance**

Before the delivery of the public key certificate, the subscriber and holder must agree the certificate use conditions, only after that, the certificate will be considered as accepted. Regarding the issued certificate, the subscriber must be aware of the following issues:

- Knowledge of the features and content of the certificate;
- Knowledge of rights and responsibilities.

#### **4.4.2. Publication of the Certificate by the CA**

The GTS CA does not publish the list of issued certificates.

#### **4.4.3. Notification of Certificate Issuance by the CA to other Entities**

The GTS CA does not notify other entities about their issuance.

## **4.5. Key Pair and Certificate Usage**

### **4.5.1. Subscriber Private Key and Certificate Usage**

Certificate holders use their private key, only and exclusively, for the intended purpose (in accordance with the provisions in the field of the certificate "*keyUsage*") and always for legal purposes. The holder always is responsible for the use of the certificate.

The use of the certificate is only allowed, and applicable to the type of certificate:

- To whoever is designated in the *Subject* field of the certificate;
- After accepting the terms and conditions associated with the type of certificate;
- Whilst the certificate is valid and is not included in the CRL of GTS CA.

### **4.5.2. Relying Party Public Key and Certificate Usage**

Relying parties shall use software that complies with the X.509 standards and shall only trust the certificate if it is not expired or revoked. The GTS CA supplies in this CP information about the appropriate services available to verify the validity status of the certificate, such as OCSP and CRL.

## **4.6. Certificate Renewal**

To renew the certificate, and if the functions and information for which the initial certificate was issued are maintained, it is only required to request the renewal of that certificate with the same data and make a renewal payment following the instructions that will be sent by GTS. This process requires a new generation of a key pair and of the respective certificate.

### **4.6.1. Circumstance for Certificate Renewal**

If a holder intends to renew a certificate, a procedure is triggered for each one of the following cases:

Renewal Reason	Renewal Procedure
<b>The certificate was revoked</b>	(i) A new pair of keys is generated, and consequently a new certificate is issued with the same fields, except the public key.
<b>The holder intends to extend the validity of the certificate</b>	(i) The old certificate is revoked. (ii) A new pair of keys is generated, and consequently a new certificate is issued with the same fields, except the public key.
<b>The Certificate original information has been modified</b>	(i) The old certificate is revoked. (ii) A new pair of keys is generated, and consequently a new certificate is issued with the amendments, including the new public key.

The renewal of certificates follows the procedures of initial identification and authentication, resulting in the generation of new pairs of keys.

#### 4.6.2. Who may Request Renewal

The Subscribers/ Holders may request the renewal of certificates.

#### 4.6.3. Processing Certificate Renewal Request

The processing of the certificate renewal request is carried out as described in point 4.6.1.

#### 4.6.4. Notification of New Certificate Issuance to Subscriber

The subscriber of the certificate is notified via e-mail within a reasonable time after the certificate is issued, and may use any reliable mechanism to deliver the certificate to the Subscriber.

#### 4.6.5. Conduct Constituting Acceptance of a Renewal Certificate

Renewed certificates are deemed accepted seven (7) days after their issuance or notification of the issuance of the certificate to the Subscriber, or when there is evidence that the Subscriber has used the certificate.

#### 4.6.6. Publication of the Renewal Certificate by the CA

No stipulation.

#### **4.6.7. Notification of Certificate Issuance by the CA to Other Entities**

See section 4.4.3.

### **4.7. Certificate Re-Key**

#### **4.7.1. Circumstance for Certificate Re-Key**

The Certificate Re-Key process is not supported by the GTS CA.

#### **4.7.2. Who may Request Certification of a New Public Key**

No stipulation.

#### **4.7.3. Processing Certificate Re-Key Requests**

No stipulation.

#### **4.7.4. Notification of New Certificate Issuance to Subscriber**

No stipulation.

#### **4.7.5. Conduct Constituting Acceptance of a Re-Keyed Certificate**

No stipulation.

#### **4.7.6. Publication of the Re-Keyed Certificate by the CA**

No stipulation.

#### **4.7.7. Notification of Certificate Issuance by the CA to Other Entities**

No stipulation.

### **4.8. Certificate Modification**

Certificate modification is a process through which the certificate is issued to a Subscriber or Sponsor maintaining the same keys, with changes only in the certificate information. The modification of certificates is not supported by the GTS CA.



#### **4.8.1. Circumstances for Certificate Modification**

No stipulation.

#### **4.8.2. Who May Request a Certificate Modification**

No stipulation.

#### **4.8.3. Processing Certificate Modification Requests**

No stipulation.

#### **4.8.4. Notification of New Certificate Issuance to Subscriber**

No stipulation.

#### **4.8.5. Conduct Constituting Acceptance of Modified Certificate**

No stipulation.

#### **4.8.6. Publication of the Modified Certificate by the CA**

No stipulation.

#### **4.8.7. Notification of Certificate Issuance by the CA to Other Entities**

No stipulation.

### **4.9. Certificate Revocation and Suspension**

The revocation of certificates is a mechanism used when, for any reason, certificates are not reliable, before the originally intended end period. In practice, certificates revocation is an action through which the certificate ceases its validity before the expiration period, losing, in this way, its functionality. The suspension of certificates is not supported by the GTS CA.

#### 4.9.1. Circumstances for Revocation

##### 4.9.1.1. Reasons for Revoking a Subscriber Certificate

**a) A certificate shall be revoked within 24 hours for one of the following reasons:**

- The Subscriber requests in writing that the CA revoke the Certificate;
- The Subscriber notifies the CA that the initial certificate request was not authorised and does not grant authorisation retroactively;
- Risk or suspicion of risk of the holder private key;
- Risk or suspicion of risk of the certificate access password;
- The CA is informed of a demonstrated or proven method that can easily calculate the Private Key of the Subscriber based on the Public Key in the Certificate;
- The CA has evidence that the validation of the domain authorisation or control for any fully qualified domain name or IP address in the certificate should not be considered;
- Risk or suspicion of risk of the GTS ROOT CA private keys;
- Use of the certificate for abusive activities.

In addition, a certificate may be revoked for one of the following reasons:

- Cease of functions;
- Theft, loss, destruction or deterioration of the supporting device of the certificates;
- Inaccuracies in data supplied;
- Risk or suspicion of risk of the holder private key;
- Risk or suspicion of risk of the certificate access password;
- Risk or suspicion of risk of the GTS CA private keys;
- Breach of responsibilities under the CPS by the GTS CA or by the holder;
- Whenever there are credible reasons to suppose that certification services are under risk, so there are doubts about the certificate reliability;
- By legal or administrative resolution;

**b) The CA may revoke a certificate within 24 hours, but shall revoke it within 5 days for one or more of the following reasons:**

- The Certificate no longer meets the requirements set out in Section 6.1.5 and Section 6.1.6;
- The CA has evidence that the Certificate has been misused;
- Cease of activities;
- Inaccuracies or changes to the data supplied;

- The CA is informed that the Subscriber has violated one or more of his/her material obligations under the Terms and Conditions of Use;
- The CA is informed of any circumstance indicating that the use of a fully qualified Domain Name or IP address in the Certificate is no longer legally permitted (e.g., a court or arbitrator has revoked the right of a Domain Name Registrar to use the Domain Name, or a relevant licence or service agreement between the Domain Name Registrar and the applicant has terminated, or the Domain Name Registrar has not renewed the Domain Name);
- Breach of responsibilities under the CPS by the GTS ROOT CA or by the holder;
- The CA is informed that the Certificate was not issued in conformity with these Requirements or with the Certificate Policy or Certification Practices Statement of the CA;
- The CA determines or is informed that any of the information contained in the Certificate is inaccurate;
- Whenever there are credible reasons that induce that the certification services may have been compromised in such a way that they place in question the reliability of the certificates;
- The right of the CA to issue certificates under the scope of these Requisites has expired or was revoked or terminated, unless the CA has taken measures to maintain the CRL/OCSP Repository;
- The CA is aware that a Subscriber has breached one or more of his/her material obligations under the Subscriber Agreement or Terms of Use;
- Revocation is required in accordance with the Certification Policy and/or Certification Practices Statement of the CA;
- Whenever it is determined that, for some reason, certificates were not issued in accordance with the GTS Certificate Policy or Certification Practices Statement;
- The CA is informed of a demonstrated or proven method that puts the Private Key of the Subscriber at risk or if there is clear evidence that the specific method used to generate the Private Key was defective;
- By legal or administrative resolution;
- Whenever the GTS CA receives notification or has implied knowledge of any circumstance that indicates that the certificate's email address is no longer legally authorised.

#### **4.9.1.2. Reasons for Revoking a Subordinate CA Certificate.**

**The Issuing CA SHALL revoke a Subordinated CA Certificate within seven (7) days for one or more of the following reasons:**

- The Subordinate CA requests the revocation in writing;
- The Subordinate CA notifies the Issuing CA that the original certificate request was not authorised and does not grant authorisation retroactively;
- The Issuing CA has evidence that the Private Key of the Subordinate CA corresponding to the Public Key in the Certificate has suffered a Key Compromise or no longer meets the requirements set out in Section 6.1.5 and Section 6.1.6;
- The Issuing CA has evidence that the Certificate has been misused;
- The Issuing CA is informed that the Certificate was not issued in conformity with or that the Subordinate CA did not comply with this document or with the applicable Certificate Policy or Certification Practices Statement;
- The Issuing CA determines that any information in the certificate is inaccurate or misleading.

#### **4.9.2. Who can Request Revocation**

Revocation can be legitimately requested by any of the following parties:

- The Certificate holder;
- The Certification Authority or Requesting Entity of the certificate of the subordinate entity;
- GTS, when aware that:
  - Data contained in the certificate does not correspond to reality;
  - The certificate is not in the possession of its holder;
- The Supervisory Authority;
- A relying party, when proves that the certificate has been used for purposes other than those intended to be used.

#### **4.9.3. Procedure for Revocation Request**

Any Revocation Request must be submitted through the service available for that purpose at <https://www.globaltrustedsign.com>. The GTS CA will process the revocation request in the next 24 hours after the revocation request has been received. During that period of time, the identity and authenticity of the applicant will be verified.

#### **4.9.4. Revocation Request Grace Period**

The revocation request grace period is the time available for the Subscriber to take the necessary actions to request the revocation of a certificate over which there is suspicion of compromising the key, discovery of inaccurate information contained in the certificate, or outdated information. In this case, the Subscriber shall request the revocation within 24 hours after its detection.

#### **4.9.5. Time within which CA must Process the Revocation Request**

After confirmation of the identity and authenticity of the applicant, GTS TSP will proceed, within 60 minutes, to change the certificate status to revoked.

#### **4.9.6. Revocation Checking Requirement for Relying Parties**

Before relying on the information contained in a certificate, the Relying Party shall validate the appropriateness of the certificate for the intended purpose and ensure that the certificate is valid. To verify the status of the certificate, the Relying Parties need to consult the OCSP or CRL responses identified in each certificate.

#### **4.9.7. CRL Issuance Frequency (if applicable)**

The status of certificates issued by the GTS CA can be checked by consulting the CRL. The CRL is updated every 6 hours, which is issued every 24 hours or whenever there is a revocation of the certificates issued, in which case a new CRL is issued immediately. The availability in the repositories is done in a period no longer than 30 minutes, and it is downloaded in less than 10 seconds. In order to guarantee its availability, the CRL is released in the following repositories:

- [https://pki.globaltrustedsign.com/download/crl/subca/gts\\_subca\\_crl.crl](https://pki.globaltrustedsign.com/download/crl/subca/gts_subca_crl.crl)
- [https://pk2.globaltrustedsign.com/download/crl/subca/gts\\_subca\\_crl.crl](https://pk2.globaltrustedsign.com/download/crl/subca/gts_subca_crl.crl)
- [https://pki.globaltrustedsign.com/download/crl/subca/gts\\_subca\\_03\\_crl.crl](https://pki.globaltrustedsign.com/download/crl/subca/gts_subca_03_crl.crl)
- [https://pki02.globaltrustedsign.com/download/crl/subca/gts\\_subca\\_03\\_crl.crl](https://pki02.globaltrustedsign.com/download/crl/subca/gts_subca_03_crl.crl)

#### **4.9.8. Maximum Latency for CRLs (if applicable)**

GTS has sufficient resources to guarantee normal operating conditions, namely a response time, for CRL and OCSP, less or equal to 10 seconds.

#### **4.9.9. Online Revocation/Status Checking Availability**

The Global Trusted Sign Root CA has an OCSP validation service for the status of the certificates online. This service can be accessed at <http://ocsp.globaltrustedsign.com>

#### **4.9.10. Online Revocation Checking Requirements**

Before using a certificate, the relying parties have the responsibility of verifying the status of all the certificates, through the CRL or a verification server of the online status (via OCSP).

The CRL can be accessed at <https://pki.globaltrustedsign.com/index.html>, guaranteeing its availability 24 hours per day, 7 days per week, except in the occurrence of a scheduled maintenance stoppage and duly communicated to the parties involved.

The end of the subscription of a certificate occurs when the validity period is expired or the certificate is revoked, according to RFC 3647. The service updates OCSP responses with a periodicity of 10m as defined in the *nextupdate* field.

#### **4.9.11. Other Forms of Revocation Advertisements Available**

No stipulation.

#### **4.9.12. Special Requirements Re-Key Compromise**

In addition to the reasons mentioned in section 4.9.1 of this Certification Policy, the parties may use the email [report@globaltrustedsign.com](mailto:report@globaltrustedsign.com) to demonstrate the compromising of the private key of the subscribed certificates.

#### **4.9.13. Circumstances for Suspension**

No stipulation.

#### **4.9.14. Who can Request Suspension?**

No stipulation.

#### **4.9.15. Procedure for Suspension Request**

No stipulation.

#### **4.9.16. Limits on Suspension Period**

No stipulation.

### **4.10. Certificate Status Services**

#### **4.10.1. Operational Characteristics**

The status of issued certificates is publicly available using CRL and the OCSP service.

#### **4.10.2. Service Availability**

The certificate status service is available 24 hours per day, 7 days per week. If a certificate is revoked, it does not remain in the CRL after the expiration date.

#### **4.10.3. Optional Features**

No stipulation.

### **4.11. End of Subscription**

The end of a certificate subscription occurs when the validity period is expired or the certificate is revoked, according to RFC 3647.

### **4.12. Key Escrow and Recovery**

#### **4.12.1. Key Escrow and Recovery Policy and Practices**

The GTS CA retains its private key and the private keys of all its customers through an HSM stored in a secure environment.

- They are archived internally in secure environments and for long periods of time;
- They are generated and stored in HSM and their transfer to other media or devices is not possible;
- The private keys of the GTS CA have at least one backup copy, with the same security level as the original key and are subject to backup copies;
- They are stored in encrypted form in HSM.

#### **4.12.2. Session Key Encapsulation and Recovery Policy and Practices**

See section 4.12.1.

## 5. Management, Operational and Physical Controls

### 5.1. Physical Security Controls

#### 5.1.1. Site Location and Construction

The GTS CA was designed to provide a safe environment capable of protecting the systems that support the activities of the Certification Authority. GTS activities are conducted in a room located in a high security zone, within a building which guarantees the existence of various levels of security, accessible only to the people required for the performance of its trust activities. GTS also guarantees that its high security zones possess all the features, as well as the necessary mechanisms to guarantee security conditions related to:

- Physical location and type of construction, with masonry, concrete or brick walls;
- Ceiling and floor with similar construction to the walls;
- No windows;
- Security door, with steel plate, with fixed hinges and shoulder also in steel, with security lock electronically operated, fire-resistant features and functionality anti-panic;
- Physical access to the premises;
- Power and air conditioning;
- Exposure to water / flooding;
- Prevention and protection against incidents/disasters such as fire, flood and similar;
- Waste disposal;
- Safeguard of database backups.

#### 5.1.2. Physical Access

In order to offer confidentiality, integrity and availability of information to the technological infrastructure, GTS is organised into six security levels:

- Level 1;
- Level 2;
- Level 3;
- Level 4;
- Level 5;
- Level 6.

Security Level 1 is identified by a large part of the infrastructure area. The first security perimeter found is the reception area of the building, where the staff of the organization is subject to a biometric system and visitors are subject to appropriate registration by the reception staff. This area is also



equipped with CCTV cameras capable of monitoring all access points to the building. The next security area is called Level 2. This level is located in a floor of the building for this purpose and represents the corridor between level 01, the systems room (Level 3) and the TSP's room (Level 4), being that, to access this area, a positive authentication in the passage of an access control by the TSP's trust groups is required. In the case of visitors (auditors and maintenance) will be provided an access card for authentication in access controls. These cards only validate access with the prior authentication of members that perform organic functions within the TSP structure. The area represented by security level 3 comprises the antechamber area and the systems room. The main function of the antechamber zone is to prevent direct passage from Security Level 2 to Level 4. Access to these areas is intended only for authorised personnel, while visitors (auditors and maintenance) can only access when accompanied by the TSP Trusted Groups. Entry or exit made at this level is only allowed after a positive identification in the access controls, and these identifications are based on the biometric factor. The access control system is managed through software that controls all access points to the infrastructure. Access to Security Level 4 is performed from an access controls device. Access is only allowed after the positive identification of two employees from different trust groups. Two identification mechanisms are used simultaneously, biometrics and PIN code. Level 5 of security is materialised by the Security Vault located within Level 4, where the smartcards of the TSP Administrators/Operators are located for access to the certificate lifecycle management systems. Access to them is only authorised to the members of the trust group with functions established in the TSP's organization and with access to the services provided by the TSP. It should also be noted that the Security Vault is approved according to the EN 1143-1 standard. The last security level, Level 6, is defined by the individual compartments within the Security Vault (Level 5), where the devices to access the functionalities of the TSP system are located. Each compartment identifies an authorized individual and with functions established in the TSP's organization, to which only the individual can have access.

### 5.1.3. Power and Air Conditioning

The GTS safe environment has redundant equipment, which guarantees operating conditions 24 hours a day / 7 days a week, of:

- Uninterruptible continuous power supply with sufficient power to autonomously maintain the power grid during periods of power failure and to protect the equipment from electrical fluctuations that could damage it (the redundant equipment consists of uninterruptible power supply batteries, and diesel electricity generators);
- Refrigeration/ventilation/air conditioning which control the temperature and humidity levels, ensuring suitable conditions for the correct operation of all the electronic and mechanical equipment present within the environment. A temperature sensor activates a GSM alert

whenever the temperature reaches abnormal values. This GSM alert consists of phone calls with a pre-recorded message to the maintenance team members.

#### **5.1.4. Water Exposures**

The high security zones have the appropriate mechanisms installed (flood detectors) to minimise the impact of floods on the GTS systems.

#### **5.1.5. Fire Prevention and Protection**

The GTS safe environment has installed the necessary mechanisms to prevent and extinguish fires or other incidents derived from flames or fumes. These mechanisms comply with existing regulations:

- Fire detection and alarm systems are installed on the various physical levels of security;
- Fixed and mobile fire extinguishing equipment is available, placed in strategic and easily accessible locations so that it can be quickly used at the beginning of a fire and successfully extinguished;
- There are well defined emergency procedures in case of fire.

#### **5.1.6. Media Storage**

Media with sensitive information are stored securely, in vaults and in accordance with the type of media and classification of the information. Access to these areas is restricted to duly authorised persons.

#### **5.1.7. Waste Disposal**

At the end of their life cycle, documents and paper materials containing critical information should be disposed of by effective methods that do not allow for their reconstruction.

Other storage equipment (hard disks and the like) shall be properly cleaned, so that it is not possible to recover any information through secure formatting, or physical destruction of the equipment. In the case of cryptographic peripherals, these shall be destroyed in accordance with the instructions and recommendations of the respective manufacturers.

#### **5.1.8. Off-Site Backup**

All backup copies are kept in a secure environment in external facilities.

## 5.2. Procedural Controls

The GTS digital certificate issuing activity, as a qualified certification authority, requires compliance with a set of European standards. These same standards define a set of working groups, with distinct competences, activities and rules, which shall be guaranteed by GTS. In the trust functions are included all personnel with access to the CA certification systems and that in practice may materially affect:

- Manipulation of subscriber information and validation of Certificate issuance information;
- Functions of the life cycle of the certificates;
- Configuration and maintenance of the certification systems;

Within the scope of its organizational structure, the following are considered to be trust functions, and are divided and differentiated by the nature of their activity, whether they are software for digital certification. Each of them is entrusted with the following responsibilities depending on their scope.

### 5.2.1. Trusted Roles

#### a) System Administration Working Group (AdmSist)

Responsible for the installation, configuration and maintenance of the systems, but with controlled access to security-related settings. This group has the following responsibilities:

- Production environment management;
- Installation, configuration, maintenance of systems and network with controlled access to application components settings;
- Management of the performance of systems that support GTS activities, to ensure that the infrastructure is always available and operational, and forecasting future needs that may arise from GTS activities and their costs;
- Management of hardware and software incidents and failures;
- Restitution of the system through backup copies, when necessary;
- Execution and maintenance of documents (procedures) related to the execution of its functions;
- Safeguard of artefacts under its custody.

#### b) Security Administration Working Group (AdmSeg)

Global responsible for security systems, in particular, for the management and implementation of rules and safety practices within the scope of services provided by GTS. This group has the following responsibilities:

- Definition of documentation related to GTS information security practices;

- Definition of procedures related to cryptographic keys management;
- To ensure that all GTS documentation is updated, adapted to the reality and stored in a secure manner, depending on their classification;
- Management of the implementation of security practices and policies, including logical and physical access control;
- Management of risks associated with services provided by GTS;
- Security events monitoring and related alarm management;
- Participation and response to security incidents;
- Safeguard of artefacts under its custody.

**c) Systems Operation Working Group (OpSist)**

Responsible for routine functioning of the trust system, being authorized to make security backups and its recovery. This group has the following responsibilities:

- Systems daily operation;
- Routine operations;
- Security backups;
- Safeguard of artefacts under its custody.

**d) Registry Administration Working Group (AdmReg)**

Responsible for the approval of the issuance, suspension and revocation of digital certificates (qualified signature, electronic seals, website authentication and timestamps certificates). This group has the following responsibilities:

- Certificate issuance and revocation;
- Submission of *Certificate Signing Request* (CSR) for the implementation of registration processes;
- Videoconferencing to validate the identity of the holders;
- Creation or update of entities requesting certification services;
- Validation of the documentation to be submitted by the holder for certificates issuance / revocation;
- Validation of the identity of the holders by videoconference;
- Notification to holders, when necessary;
- Safeguard of artefacts under its custody.

**e) Audit Working Group (Auditor)**

Responsible for the internal analysis, in accordance with national and European rules applicable to the activities of GTS, in its capacity of a qualified trust service provider, being authorized to check and monitor activities archives of trust systems. This group has the following responsibilities:

- Registration and monitoring of all sensitive system operations;
- Registration of all procedures subject of being audited;
- Periodic verification of the conformity with processes, policies and procedures in force within the context of the activity of a qualified service provider;
- Safeguard of artefacts under its custody;
- Submission of proposals for improvement.

**f) Management Working Group (Management)**

Responsible for assuring technical, financial and personnel means, for the adequate functioning of GTS, in its capacity of a qualified trust service provider. This group has the following responsibilities:

- Appointment of members of the other Working Groups;
- Review and approval of GTS Policies and Practice Statements;
- Safeguard of artefacts under its custody.

**5.2.2. Number of Individuals Required per Task**

Each group have 2 members to ensure the redundancy of resources.

**5.2.3. Identification and Authentication for each Role**

See section 5.2.1.

**5.2.4. Roles Requiring Separation of Duties**

The composition of the working groups must respect the principles of minimum privilege and segregation of functions. The following table shows the incompatibilities between the different groups existing in GTS, in order to avoid any conflicts of interest.

Working Group	Incompatible with				
	(a)	(b)	(c)	(d)	(e)
(a) Security Administration		X	X	X	X
(b) System Administration	X				X
(c) Registry Administration	X				X

(d) Systems Operation	X				X
(e) Audit	X	X	X	X	

### 5.3. Personnel Controls

#### 5.3.1. Qualifications, Experience and Clearance Requirements

All members included in any GTS working groups should meet the following requirements:

- Proof of qualification and experience for the performance of the respective duty;
- Ensure confidentiality related to GTS sensitive information or identification data of holders;
- Guarantee that they do not perform functions that may arise a conflict with their responsibilities concerning GTS activities;
- Ensure knowledge of the terms and conditions for the performance of the respective function;
- Have the necessary documentation for the performance of the respective function;
- Have been formally appointed for the function to be exercised.

#### 5.3.2. Background Check Procedures

Background check is derived from the process of accreditation of persons appointed to pursue activities in any of the Working Groups and that includes the verification of identity and criminal record, as well as references mentioned in the curriculum vitae.

#### 5.3.3. Training Requirements and Procedures

The members of the Working Groups must be subject to a specific training and education plan, which covers the following topics:

- Legal aspects related to certification services;
- Digital certificate and public key infrastructure;
- General concepts on information security;
- Specific training for the related Working Group;
- GTS software and/or hardware operation;
- Certification Policies and Certification Practice Statements;
- Awareness on evaluation criteria for SSL certificates according to the CA/Forum Browser EV Guidelines;
- Procedures for continuity of the activity;
- Recovery in case of disasters.

#### **5.3.4. Retraining Frequency and Requirements**

The occurrence of any technological change, or the introduction of new tools, or the modification of existing procedures, should trigger an adequate training process in all Working Groups. In addition, training sessions should be addressed to members of Certification Authorities when GTS Certification Policies or Certification Practice Statement are amended. Such facts must be taken into account in order to guarantee the intended level of knowledge for the successful implementation of responsibilities incumbent to the different Working Groups.

#### **5.3.5. Job Rotation Frequency and Sequence**

No stipulation.

#### **5.3.6. Sanctions for Unauthorized Actions**

All unauthorized actions and those actions violating GTS Certification Practice Statement and Certification Policies shall be subject to disciplinary measures, either that they have been deliberate or caused by negligence. In addition, and depending on the seriousness of the infringement, legal sanctions may be applied.

#### **5.3.7. Independent Contractor Controls**

The access to the High Security Zone by consultants or providers of independent services, requires the continuous supervision from members of the Working Groups, being their identity confirmed through the verification of documentation issued by reliable sources. In addition, they must register in the book of attendance existing for this purpose.

#### **5.3.8. Documentation Supplied to Personnel**

Information and documentation related to GTS Certification Policies, GTS Certification Practice Statement, documentation with description of responsibilities, duties and tasks depending on the function, as well as additional technical documentation about the software and hardware used by the GTS Certification Authority, must be available to Working Groups members.

### **5.4. Audit Logging Procedures**

#### **5.4.1. Types of Events Recorded**

All significant events, able to be auditable, should be recorded, in particular the following:

- Security backups, restoration or data file;
- Physical security of input/output of the different levels of security devices;
- System maintenance;
- Software and hardware modifications and updates;
- Change of personnel;
- Connect and disconnect applications or systems involved in the certification activity;
- Operations conducted by members of the Working Groups;
- Attempts, successful or not, to access sensitive resources of GTS Certification Authority;
- Attempts, successful or not, to modify security parameters;
- Attempts, successful or not, to create, modify, or delete system accounts;
- Attempts, successful or not, to start and end of session;
- Attempts, successful or not, of transactions related to the request, issuance, renewal, modification, suspension and revocation of certificates and keys;
- Attempts, successful or not, to generate, issue or update the CRL;
- Attempts, successful or not, to create, modify or delete information of certificates holders;
- Attempts, successful or not, to access GTS CA High Security Zones.

The record of events, by automatic or manual means, must contain, at least, information such as event date and time, category, description and serial number, as well as the identification of the agent that caused them.

#### **5.4.2. Frequency of Processing Audit Log**

The audit of records shall be conducted on a regular basis, in particular on the occurrence of events which may be considered suspicious or which may compromise in any way the activity in question. All such events should be recorded in an analysable summary report, as well as the decisions and actions taken in response.

#### **5.4.3. Retention Period for Audit Log**

Audit records must be kept in the system for at least 1 month after being processed. After that time, they must be filed according to as is defined in section 5.5 of this document.

#### **5.4.4. Protection of Audit Log**

Audit records are protected against unauthorized access, amendments, manipulation or destruction attempts. As a rule, electronic records must be protected using cryptographic techniques so nobody,



except the own records visualization applications, with appropriate access control, can access them. Manual records are stored in premises which meet the requirements defined for that purpose, within the GTS CA safe facilities. This type of audit records is considered as sensitive information.

#### **5.4.5. Audit Log Backup Procedures**

Backups of audit logs are made on a regular basis.

#### **5.4.6. Audit Log Accumulation System (Internal vs. External)**

Logs are centrally collected and processed.

#### **5.4.7. Notification to Event-Causing Subject**

Events likely to be audit are recorded in GTS internal systems, being stored in a secure manner. It is not envisaged any notification to the event-causing subject.

#### **5.4.8. Vulnerability Assessment**

Although significant changes in the GTS Certification Authority global environment are not yet produced, vulnerability assessments must be conducted, with the aim to minimize or eliminate potential attempts of security breaches in the system. The outcome of these evaluations should be informed to the responsible managers so they can review and approve, when required, an implementation plan and the correction of detected vulnerabilities.

### **5.5. Records Archival**

#### **5.5.1. Types of Records Archived**

The GTS CA shall archive, at minimum, the following types of data:

- Audit records specified in this document;
- Security copies of systems that are part of the CA infrastructure;
- Documentation related to certificates life cycle.
- Keys for confidentiality purposes (where applicable);
- Contracts celebrated between the CA and other entities.

### **5.5.2. Retention Period for Archive**

The retention time of data subject to archiving is defined in accordance with the provisions of national legislation, for a period of no less than 7 years.

### **5.5.3. Protection of Archive**

The archive is protected according to what is also foreseen for the protection of audit records. Furthermore, the archive is protected so that only authorised members of the Working Groups may consult and access it.

### **5.5.4. Archive Backup Procedures**

See section 5.4.5.

### **5.5.5. Requirements for Time-Stamping of Records**

Information systems used by the GTS CA must ensure the record of the date and time of the moment, based on a secure time source.

### **5.5.6. Archive Collection System (Internal or External)**

See section 5.4.6.

### **5.5.7. Procedures to Obtain and Verify Archive Information**

Only duly authorised members of the Working Groups have access to the archives for the purpose of checking the integrity of the information to ensure that it is in good condition and can be recovered.

## **5.6. Key Changeover**

No stipulation.

## **5.7. Compromise and Disaster Recovery**

This section describes the requirements related to notification and recovery procedures in the event of a disaster or compromise.

### **5.7.1. Incident and Compromise Handling Procedures**

In case of a serious security incident or compromise of the GTS CA, the following procedures shall be performed:

- Notification without undue delay, but always within a period of 24 hours after detecting the event, to the supervisory authority and, if necessary, to other entities, such as the competent national body on information security or the authority responsible for data protection, of all the breaches of security or loss of integrity that have a significant impact on the trust service provided or on stored personal data.
- If the security breach or loss of integrity is likely to harm the natural or legal person to whom the trust service is provided, that person will be notified, without undue delay, about the above-mentioned security breach or loss of integrity.
- In addition, and depending on the type of incident, the affected CA may be disconnected.

If necessary, if the security breach or integrity loss affect two or more Member States, the notified supervisory authority shall inform about this fact to supervisory authorities of the other Member States concerned and to ENISA.

The notified supervisory authority shall inform to the public, or will demand the trust service provider to do so, if considers that the disclosure of the security breach or loss of integrity is of public interest.

### **5.7.2. Recovery Procedures if Computing resources, software, and/or data are corrupted**

When hardware, software, and/or data resources have been altered or there is suspicion that these have been corrupted, an event management procedure will be activated to restore secure conditions adding new credible efficiency components. GTS will suspend its services and will notify all entities involved in case it is verified that this situation has affected issued certificates, including notification to the holders thereof.

### **5.7.3. Recovery Procedures after Key Compromise**

If any of the algorithms, or associated parameters, used by the GTS CA or its owners become insufficient for their intended purpose, the GTS CA shall:

- Inform all holders and other entities with which the GTS CA has agreements or other form of established relationships. Additionally, this information shall be made available for other dependent entities;
- Inform the Mozilla Root Repository and other root repositories that have established a trust relationship with the GTS PKI hierarchy;

- Schedule the revocation of any affected certificate.

#### **5.7.4. Business Continuity Capabilities after a Disaster**

GTS has a business continuity plan, which describes all the procedures to be implemented in the event of a disaster where there is loss or corruption of data, software and equipment. The Continuity Plan should ensure that services identified as critical due to their availability necessity are accessible at the Alternative Location and that GTS CA data necessary to resume operations is copied and stored in safe and adequate locations to allow the proper return to operations of GTS CA in case of incidents/disasters. Backup copies of essential information and software are performed regularly. Adequate support facilities must be provided to ensure that essential information and software can be recovered after a disaster or failure in the media. Safeguard mechanisms must be tested regularly to ensure that they meet the requirements of the plans for business continuity.

#### **5.8. CA or RA Termination**

In the event of termination of activities, GTS should proceed promptly to the following actions:

- Inform the Supervisory Authority (National Security Department -*Gabinete Nacional de Segurança* - GNS);
- Inform all holders of certificates through a notification explaining in advance the cessation of formal activities of GTS CA;
- Revocation of all certificates;
- Ensure the transfer (for its retention by another organization) of all information concerning the CA activity, in particular, CA key, certificates, documents in files (internal or external), repositories and events records files;
- Proceed to the complete destruction of all classified information or ensure its transfer (for permanent retention by another organization) of all information regarding GTS CA, activity, in particular, CA key, certificates, documents in files (internal or external), repositories, and events records files.

In case of changes in the responsible body/structure for managing the GTS CA activity, the GTS CA shall inform the entities listed in the previous paragraphs of such fact.

### **6. Technical Security Controls**

Technical security controls are also stipulated in document DP02 - GTS CA Practice Statement.

## **6.1. Key Pair Generation and Installation**

This section defines the security measures implemented for the GTS PKI in order to protect the cryptographic keys generated by it, and respective activation data. The security level assigned for key maintenance shall be maximum so that private keys and secure keys, as well as activation data, are always protected and only accessed by duly authorised persons. The generation of key pairs of the GTS CA is processed in accordance with the requisites and algorithms defined in this policy.

### **6.1.1. Key Pair Generation**

#### **6.1.1.1. CA Key Pair Generation**

The generation of key pairs of the GTS ROOT CA is processed in accordance with the requisites and algorithms defined in this statement, through a formal procedure dated, carried out, and signed by authorised members of the Security Administration and Audit Working Groups. The GTS CA does not generate key pairs for certificates that have the EKU extension containing the *KeyPurposelds*, *id-kp-serverAuth* or *anyExtendedKeyusage* attributes.

#### **6.1.1.2. RA Key Pair Generation**

No stipulation.

#### **6.1.1.3. Subscriber Key Pair Generation**

See section 4.5.1.

### **6.1.2. Private Key Delivery to Subscriber**

No stipulation.

### **6.1.3. Public Key Delivery to Certificate Issuer**

See section 4.1.

### **6.1.4. CA Public Key Delivery to Relying Parties**

See section 2.2.

### **6.1.5. Key Sizes**

Concerning the size of the keys, the recommendations of the ETSI TS 119 312 - Electronic Signatures and Infrastructures - Cryptographic Suites standard were followed. The size defined for the keys is the following:

- 4096 bits RSA for the key of the GTS Certifying Authorities.
- 2048 bits RSA for keys associated with the remaining certificates that are issued by GTS with the sha256RSA signature algorithm.

### **6.1.6. Public Key Parameters Generation and Quality Checking**

The key generation process is, necessarily, carried out directly in a cryptographic module in hardware (HSM). The cryptographic module complies with the FIPS 140-2 level 3 requisites. These certificates are signed by the GTS ROOT CA. The GTS ROOT CA works in offline mode.

The generation of the GTS CA keys shall be carried out in accordance with that stipulated in PKCS#11.

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

See section 1.4.

## **6.2. Private Key Protection and Cryptographic Module Engineering Controls**

This section addresses the requirements for the protection of the private keys and for the cryptographic modules of the GTS PKI. Global Trusted Sign has implemented a combination of physical, logical and procedural controls, duly documented, in order to ensure the confidentiality and integrity of the private keys of the GTS PKI.

### **6.2.1. Cryptographic Module Standards and Controls**

The GTS CA uses cryptographic modules (HSM) for activities related to the generation, storage and signature. Cryptographic modules are compliant with Common Criteria v2.3, FIPS 140-2 level 3 (for GTS ROOT CA cryptographic module). The GTS Certification Authority cryptographic module security is guaranteed during its life cycle, ensuring the following:

- The installation and activation of keys in the cryptographic module is conducted by members of the Working Groups duly identified (section 14.2, Processes Controls, and section 14.3, Staff Security Measures);

- Private signature keys stored in the cryptographic module are deleted at the end of their life cycle;
- The cryptographic module was not tampered with during its transport;
- The cryptographic module is not tampered with while remaining at GTS secure premises;
- The cryptographic module has proper operation.

### **6.2.2. Private Key (n out of m) Multi Person Control**

The generation and installation of the activation data for the private key of the GTS CA is carried out by authorised personnel in a safe environment through an initial setup of the HSM, which requires simultaneous control by two members of the working groups.

### **6.2.3. Private Key Escrow**

The GTS CA retains its private key and the private keys of all its customers through an HSM kept in a safe environment.

- Are internally archived in a safe environment and for long periods of time;
- Are generated and stored in the HSM, being unable to be transferred to other media or devices;
- The GTS CA private keys have, at least, a backup copy with the same level of security than the original key and they are subject of backups;
- Are stored in encrypted form in the HSM.

### **6.2.4. Private Key Backup**

Refer to previous point.

### **6.2.5. Private Key Archival**

See section 6.2.3.

### **6.2.6. Private Key Transfer into or from a Cryptographic Module**

The transmission of the activation data of the private keys to other HSM is made, only and exclusively when necessary, in order to guarantee its protection and availability.

### **6.2.7. Private Key Storage on Cryptographic Module**

See section 6.2.3.

### **6.2.8. Activating Private Keys**

The private key must be activated when the ROOT CA system/application is connected. This activation must be performed only when, previously, the authentication in the cryptographic module is made by the persons indicated for this purpose, being mandatory the use of authentication by quorum  $k$  in  $N$ , where  $k = 2$ . That means, it is necessary  $k$  users in  $N$  to make an administrative operation in the HSMs (including the activation of the private key).

### **6.2.9. Deactivating Private Keys**

The private key must be deactivated when the ROOT CA system/application is disconnected. This deactivation must only be performed when, previously, the authentication has been made in the cryptographic module by the persons indicated for this purpose, being mandatory the use of authentication by quorum  $k$  in  $N$ , where  $k = 2$ . That means, it is necessary  $k$  users in  $N$  to make an administrative operation in the HSMs (including the deactivation of the private key).

### **6.2.10. Destroying Private Keys**

The GTS CA different keys shall be destroyed when they are no longer necessary. Usually, keys destruction must be always preceded by the certificate revocation, in the case of still being valid, or in case that it has reached the end of their date of validity. Accordingly, keys must be deleted/destroyed by an auditable formal method, to avoid their reconstruction. Also, respective backup copies must be subject to destruction.

### **6.2.11. Cryptographic Module Capabilities**

See section 6.2.1.

## **6.3. Other Aspects of Key Pair Management**

### **6.3.1. Public Key Archival**

The GTS CA archives its keys, and those keys issued by it (for digital signatures purposes), remaining stored after the expiry of corresponding certificates for verification of digital signatures generated during its validity period.



### **6.3.2. Certificate Operational Periods and Key Pair Usage Periods**

The period to use the keys is determined by the validity period of the certificate, so that after the certificate expires, the keys can no longer be used, originating the permanent termination of their operability and of the use for which they were meant. The validity of the various types of certificates and the period in which they should be renewed is as follows:

- The GTS ROOT CA certificate has a minimum validity of 20 years;
- A subordinate entity certificate issued by the GTS CA has a minimum validity of 1 year, and a maximum validity of 6 years;
- An EV or OV SSL certificate has a maximum validity of 398 days;
- All certificates issued by GTS are valid from the moment they are issued until they expire. No certificate issued for a server can exceed a validity period of more than 825 days.

## **6.4. Activation Data**

### **6.4.1. Activation Data Generation and Installation**

See section 6.2.2.

### **6.4.2. Activation Data Protection**

The private key activation data is stored in safe environments.

### **6.4.3. Other Aspects of Activation Data**

Activation data is destroyed once the associated private key has been also destroyed.

## **6.5. Computer Security Controls**

### **6.5.1. Specific Computer Security Technical Requirements**

Access to the GTS PKI servers is restricted to the members of the Working Groups. The GTS ROOT CA is an offline CA, only activated within the scope of periodic maintenance and deactivated immediately afterwards. The Subordinate CAs of the GTS PKI have an active operation, and the request for issuing certificates is made from the Certificate Life Cycle Management System (CLCMS) and/or from the operation console.

### **6.5.2. Computer Security Rating**

The various systems and products used by the GTS PKI are reliable and protected against modification. The cryptographic modules comply with Common Criteria v2.3, FIPS 140-2 and FIPS 140-2 level 3 for the GTS ROOT CA cryptographic module.

## **6.6. Life Cycle Technical Controls**

### **6.6.1. System Development Controls**

All development, settings, and modifications on the software/hardware associated with the public key infrastructure are implemented and audited by authorized members of the GTS CA. The GTS CA has mechanisms to control and monitor GTS CA system settings, from its initial activation until eventual termination of activities. All upgrade and maintenance operations are carried out by authorised members in accordance with the appropriate procedures.

### **6.6.2. Security Management Controls**

All GTS CA systems are in the High Security Zone (HSZ). Through the implemented controls, it is possible to guarantee the identification, authentication and administration of accesses.

### **6.6.3. Life Cycle Security Controls**

The upgrade and maintenance operations of the GTS PKI products and systems, follow the same control as the original equipment and are installed by members of the GTS Trust Groups with adequate training for the purpose, following the defined procedures.

## **6.7. Network Security Controls**

The GTS PKI has border protection devices, namely a firewall system. It meets the necessary requirements for identification, authentication, access control, administration, auditing and information exchange. Therefore, the PKI GTS ensures that the set of controls implemented are in conformity with all the network security requirements of the "CA/Browser FORUM - Network and Certificate System Security Requirements".

## **6.8. Time-Stamping**

Information related to the GTS CA is registered with the date and time of creation. All the infrastructure is time-synchronized through internal atomic clock, and by two alternative UTC sources:

- Royal Observatory of Belgium (ORB), Brussels, Belgium - ntp1.oma.be
- Observatoire de Paris (LNE-SYRTE), Paris, France - ntp-p1.obspm.fr

## 7. Certificate, CRL, and OCSP Profiles

### 7.1. Certificate Profile

The public key - private key pair is associated with a holder whose main use is digital signature. The user of the public key trusts the respective private key and this trust is given through the use of X.509 v3 digital certificates (connecting the holder and the public key). The GTS CA digitally signs the digital certificate, making sure that the holder has the private key (proof of possession of the private key):

Certificates issued by the GTS Advanced Certification Authority:

- Have a validity of 1, 2 or 3 years, stated in their content;
- Are signed by the GTS Advanced Certification Authority;
- Are distributed through public systems;
- Can be stored in any type of storage units.

Security services requiring the public key of the user may need to validate the entire GTS CA chain of trust (Certificate of the GTS Root Certification Authority and the Certificate of the Advanced Certification Authority). These certificates are public and can be checked by any security service (<https://pki.globaltrustedsign.com/index.html>). The storage of keys involved in all signature processes or generation of certificates by the GTS Certification Authority in in the possession of the certificate holder, as this certificate is downloaded by the holder, thus meeting the requirements set forth in the ETSI standards. The profile of the Qualified Digital Signature Certificate meets the ETSI 319 412 standards.

#### a) Profile of Qualified Signature Certificates for Legal Person

OID	Certificate Component	Value	Type	Remarks
	Version	V3	M	
	Serial Number	<Assigned by the GTS Certification Authority to each certificate>	M	
1.2.840.113549.1.1.11	Signature	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	
	Issuer		M	
	Country (C)	"PT"		
	Organization (O)	"ACIN iCloud Solutions, Lda"		
	Organization Unit (OU)	"Global Trusted Sign"		
	Common Name (CN)	"Global Trusted Sign Certification Authority 03"		
	Validity			Validity of the Certificate

OID	Certificate Component	Value	Type	Remarks
	<b>Valid from</b>	<Date of issuance>		
	<b>Valid to</b>	<Date of issuance + 1, 2 or 3 years>		1, 2, 3 years maximum validity
	<b>Subject</b>			
	<b>Country (C)</b>	<Country>	M	Nationality of the certificate's holder
	<b>Organization (O)</b>	<Legal name of the Organization>	M	
	<b>OrganizationUnit (OU)</b>	<i>RemoteQSCDManagement</i>	M	Mandatory identifier set on GNS Decision 155/2017
	<b>Common Name (CN)</b>	<Common name of the legal person>		Unique identifier of the certificate's holder
	<b>Surname (SN)</b>	<Holder's surname>	M	
	<b>Given Name (G)</b>	<Part of the holder's name that is not his/her surname nor any middle names>	M	
	<b>Serial Number (serialNumber)</b>	<Certificate unique identifier>	M	Unique identifier of the natural person. IDC format<country's code>-<Civil identification of the natural person representing the legal person> (In accordance with 5.1.3. of the ETSI319 412-1)
	<b>OrganizationIdentifier</b>	<Unique identifier of the legal person>	M	Unique identifier of the legal person, other than the name of the Organization. (2.5.4.97) VAT format<country's code>-<TIN of the legal person> (According to 5.1.4 of the ETSI 319 412-1)
	<b>Subject Alternative Info</b>	<Holder's email>		
	<b>Subject Public Key Info</b>		M	
1.2.840.113549.1.1.1	<b>Algorithm</b>	rsaEncryption (OID: 1.2.840.113549.1.1.1)		Public key algorithm
	<b>subjectPublicKey</b>	<Public key>		Certificate's public key
	<b>Authority Key Identifier</b>		M	
	<b>keyIdentifier</b>	160-bit hash		It enables to identify the public key corresponding to the private key of the certificate
	<b>Subject Key Identifier</b>	160-bit hash	M	Identifier of the certificate's key
	<b>Key Usage</b>		M	
	Digital Signature	"0" selected		
	Non-Repudiation	"1" selected		
	Key Encipherment	"0" selected		
	Data Encipherment	"0" selected		
	Key Agreement	"0" selected		
	Key Certificate Signature	"0" selected		
	CRL Signature	"0" selected		
	Encipher Only	"0" selected		
	Decipher Only	"0" selected		
1.3.6.1.5.5.7.3.4	<b>Extended Key Usage</b>	Email Protection (1.3.6.1.5.5.7.3.4)		
	<b>Certificate Policies</b>		M	

OID	Certificate Component	Value	Type	Remarks
1.3.6.1.4.1.50302.1.1.1.2.1.2	[1]	policyIdentifier: 1.3.6.1.4.1.50302.1.1.1.2.1.2  Policy Qualifier Id=CPS cPSuri: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>		Identifier of the location of the Disclosure Statement of CA GTS Certification
	<b>Basic Constraints</b>		M	
	Subject Type	End Entity		Certificate intended to End-Entities
	Path Length Constraint	None		
	<b>CRLDistributionPoints</b>		M	
	[1]	distributionPoint: <a href="http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Location of the GTS CA Certificate Revocation List
	[2]	distributionPoint: <a href="http://pki02.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki02.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Secondary location of the GTS CA Certificate Revocation List
	<b>Qualified Certificate Statements</b>		M	
	id-etsi-qcs-QcCompliance	<present extension>		The existence of a QCStatement indicates that the certificate is a qualified and issued in accordance with European Regulation No. 910/2014
	id-etsi-qcs-QcSSCD	<present extension>		This parameter indicates that the private key linked to the certificate is saved on a QSCD (Qualified Signature/Seal Creation Device) in accordance with EU Regulation No. 910/2014
	id-etsi-qcs-QcType	id-etsi-qcs-QcType 1 (id-etsi-qct-esign) Certificate for electronic signatures as defined in Regulation (EU) No 910/2014		Certificate for Qualified Digital Signature as defined in European Regulation (EU) No. 910/2014
	id-etsi-qcs-QcPDS	Id-etsi-qcs-QcPDS en: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a> pt: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>		This QCStatement has the URLs of the GTS CA Disclosure of Principles Statements (DPS)
	<b>Authority Information Access</b>		M	
1.3.6.1.5.5.7.48.1	[1] accessMethod	On-line Certificate Status Protocol (1.3.6.1.5.5.7.48.1)		Certificate validation service
	[1] accessLocation	<a href="http://ocsp.globaltrustedsign.com/">http://ocsp.globaltrustedsign.com/</a>		Location of the OCSP service
1.3.6.1.5.5.7.48.2	accessMethod	Certification Authority Issuer (1.3.6.1.5.5.7.48.2)		Parameter used to identify the GTS CA certificate and build the chain of trust.
	accessLocation	<a href="http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Location of the GTS CA certificate
1.2.840.113549.1.1.11	<b>Signature Algorithm</b>	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	Algorithm used to create a certificate's signature

OID	Certificate Component	Value	Type	Remarks
	<b>Signature Value</b>	<It contains the digital signature issued by the CA>	M	Signature of the certificate

**b) Profile of Advanced Signature Certificates for Natural Person**

OID	Certificate Component	Value	Type	Remarks
	<b>Version</b>	V3	M	
	<b>Serial Number</b>	<Assigned by the CA to each certificate>	M	
1.2.840.113549.1.1.11	<b>Signature</b>	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	Certificate's signature. The value must be equal to the OID of the <i>SignatureAlgorithm</i> (below)
	<b>Issuer</b>		M	
	Country (C)	"PT"		
	Organization (O)	"ACIN iCloud Solutions, Lda"		
	Organization Unit (OU)	"Global Trusted Sign"		
	Common Name (CN)	Global Trusted Sign Certification Authority 03		
	<b>Validity</b>		M	Validity of the Certificate
	Valid from	<Date of issuance>		
	Valid to	<Date of issuance + 1, 2 or 3 years>		1, 2, 3 years maximum validity
	<b>Subject</b>		M	
	Country (C)	<Country>		Nationality of the certificate's holder
	OrganizationUnit (OU)	<i>RemoteQSCDManagement</i>	M	Mandatory identifier set on the GNS Decision 155/2017
	Common Name (CN)	<holder's name>		
	Surname (SN)	<Holder's surname>	M*	
	Given Name (G)	<First name of the certificate holder>	M*	
	Organization (O)	<Legal name of the Natural Person> OR <Pseudonym>	M*	Legal name of the Natural Person or, as an alternative, the Pseudonym, followed by the term '(Pseudonym)', indicating the cases when a Pseudonym is used
	Serial Number (serialNumber)	<Unique identifier of the certificate>	M	Unique identifier of the natural person. IDC format<country code>-<Civil identification of the natural person> (According to 5.1.3. of ETSI319 412-1)

OID	Certificate Component	Value	Type	Remarks
	OrganizationIdentifier	<Unique identifier of the natural person with pseudonym>	O*	Unique identifier of the legal person, other than the name of the organization. (2.5.4.97) VAT format<country code>-<TIN of the natural person with pseudonym>
	<b>Subject Alternative Name</b>	<Holder's email >		
	<b>Subject Public Key Info</b>		M	
1.2.840.113549.1.1.1	Algorithm	rsaEncryption (OID: 1.2.840.113549.1.1.1)		Algorithm of the public key
	subjectPublicKey	<Public key>		Certificate's public key
	<b>Authority Key Identifier</b>		M	
	keyIdentifier	160-bit hash		It enables to identify the public key corresponding to the private key of the certificate
	<b>Subject Key Identifier</b>	160-bit hash	M	Identifier of the certificate's key
	<b>Key Usage</b>		M	
	Digital Signature	"0" selected		
	Non-Repudiation	"1" selected		
	Key Encipherment	"0" selected		
	Data Encipherment	"0" selected		
	Key Agreement	"0" selected		
	Key Certificate Signature	"0" selected		
	CRL Signature	"0" selected		
	Encipher Only	"0" selected		
	Decipher Only	"0" selected		
1.3.6.1.5.5.7.3.4	<b>Extended Key Usage</b>	Email Protection (1.3.6.1.5.5.7.3.4)		
	<b>Certificate Policies</b>		M	
1.3.6.1.4.1.50302.1.1.1.2.1.2	[1]	policyIdentifier: 1.3.6.1.4.1.50302.1.1.1.2.1.2  Policy Qualifier Id=CPS cPSuri: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>		Identifier and location of the GTS CA Certification Practice Statement
	<b>Basic Constraints</b>		M	
	Subject Type	End Entity		Certificate intended to End-Entities
	Path Length Constraint	None		
	<b>CRLDistributionPoints</b>		M	
	[1]	distributionPoint: <a href="http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Location of the GTS CA Certificate Revocation List
	[2]	distributionPoint: <a href="http://pki02.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki02.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Secondary the GTS CA Certificate Revocation List
	<b>Qualified Certificate Statements</b>		M	

OID	Certificate Component	Value	Type	Remarks
	id-etsi-qcs-QcCompliance	<Present extension>		<b>The existence of a QCStatement indicates that the certificate is qualified and issued in accordance with EU Regulation No. 910/2014</b>
	id-etsi-qcs-QcSSCD	<Present extension>		This parameter indicates that the private key associated to the certificate is saved on a QSCD (Qualified Signature/Seal Creation Device) in accordance with EU Regulation No. 910/2014
	id-etsi-qcs-QcType	id-etsi-qcs-QcType 1 (id-etsi-qct-esign) Certificate for electronic signatures as defined in Regulation (EU) No 910/2014		Qualified Digital Signature Certificate as defined in the European Regulation No. 910/2014
	id-etsi-qcs-QcPDS	Id-etsi-qcs-QcPDS en: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a> pt: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>		This QCStatement has the URLs of the GTS CA Principles Disclosure Statements (PDS)
	<b>Authority Information Access</b>		M	
1.3.6.1.5.5.7.48.1	[1] accessMethod	On-line Certificate Status Protocol (1.3.6.1.5.5.7.48.1)		Certificate validation service
	[1] accessLocation	<a href="http://ocsp.globaltrustedsign.com/">http://ocsp.globaltrustedsign.com/</a>		OCSP service location
1.3.6.1.5.5.7.48.2	accessMethod	Certification Authority Issuer (1.3.6.1.5.5.7.48.2)		Parameter used to identify the GTS CA certificate and build the chain of trust
	accessLocation	<a href="http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Location of the GTS CA certificate
1.2.840.113549.1.1.11	<b>Signature Algorithm</b>	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	Algorithm used to create the signature of the certificate
	<b>Signature Value</b>	<It has the digital signature issued by the CA>	M	Signature of the certificate



**c) Profile of Qualified Signature Certificates for Legal Person – Professional**

OID	Componente do Certificado	Valor	Tipo	Comentários
	<b>Version</b>	V3	M	
	<b>Serial Number</b>	<Assigned by the GTS Certification Authority to each certificate>	M	
1.2.840.113549.1.1.11	<b>Signature</b>	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	
	<b>Issuer</b>		M	
	Country (C)	"PT"		
	Organization (O)	"ACIN iCloud Solutions, Lda"		
	Organization Unit (OU)	"Global Trusted Sign"		
	Common Name (CN)	"Global Trusted Sign Certification Authority 03"		
	<b>Validity</b>			Validity of the Certificate
	Valid from	<Date of issuance>		
	Valid to	<Date of issuance + 1, 2 or 3 years>		1, 2, 3 years maximum validity
	<b>Subject</b>			
	Country (C)	<Country>	M	Nationality of the certificate's holder
	Organization (O)	<Legal name of the Organization>	M	
	OrganizationUnit (OU)	<i>RemoteQSCDManagement</i>	M	Mandatory identifier set on GNS Decision 155/2017
	OrganizationUnit (OU)	<Description of the professional association>	O	
	OrganizationUnit (OU)	<Professional association code >- <Professional license number >	O	
	OrganizationUnit (OU)	<Position description >	M	
	OrganizationUnit (OU)	<Area/Department description>	O	
	Common Name (CN)	<Common name of the legal person>		Unique identifier of the certificate holder
	Surname (SN)	<Holder's surname>	M	
	Given Name (G)	<Part of the holder's name that is not his/her surname nor any middle names>	M	

OID	Componente do Certificado	Valor	Tipo	Comentários
	Serial Number (serialNumber)	<Unique identifier of the certificate>	M	Unique identifier of the natural person. IDC format<country's code>-<Civil identification of the natural person representing the legal person> (According to 5.1.3. of the ETSI319 412-1)
	OrganizationIdentifier	<Unique identifier of the legal person>	M	Unique identifier of the legal person, other than the name of the Organization. (2.5.4.97) VAT format<country's code>-<TIN of the legal person> (According to 5.1.4 of ETSI 319 412-1)
	<b>Subject Alternative Name</b>	<Holder's email>		
	<b>Subject Public Key Info</b>		M	
1.2.840.113549.1.1.1	Algorithm	rsaEncryption (OID: 1.2.840.113549.1.1.1)		Public key algorithm
	subjectPublicKey	<Public Key>		Certificate's public key
	<b>Authority Key Identifier</b>		M	
	keyIdentifier	160-bit hash		It enables to identify the public key corresponding to the private key of the certificate
	<b>Subject Key Identifier</b>	160-bit hash	M	Identifier of the certificate's key
	<b>Key Usage</b>		M	
	Digital Signature	"0" selected		
	Non-Repudiation	"1" selected		
	Key Encipherment	"0" selected		
	Data Encipherment	"0" selected		
	Key Agreement	"0" selected		
	Key Certificate Signature	"0" selected		
	CRL Signature	"0" selected		
	Encipher Only	"0" selected		
	Decipher Only	"0" selected		
1.3.6.1.5.5.7.3.4	<b>Extended Key Usage</b>	Email Protection (1.3.6.1.5.5.7.3.4)		
	<b>Certificate Policies</b>		M	

OID	Componente do Certificado	Valor	Tipo	Comentários
1.3.6.1.4.1.50302.1.1.1.2.1.2	[1]	<p>policyIdentifier: 1.3.6.1.4.1.50302.1.1.1.2.1.2</p> <p>Policy Qualifier Id=CPS</p> <p>cPSuri: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a></p>		Identifier and location of the GTS CA Certification Practice Statement
	<b>Basic Constraints</b>		M	
	Subject Type	End Entity		Certificate intended to End-Entities
	Path Length Constraint	None		
	<b>CRLDistributionPoints</b>		M	
	[1]	<p>distributionPoint: <a href="http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a></p>		Location of the GTS CA Certificate Revocation List
	[2]	<p>distributionPoint: <a href="http://pki02.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki02.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a></p>		Secondary location of the GTS CA Certificate Revocation List
	<b>Qualified Certificate Statements</b>		M	
	id-etsi-qcs-QcCompliance	<present extension>		The existence of a QCStatement indicates that the certificate is qualified and issued in accordance with EU Regulation No. 910/2014
	id-etsi-qcs-QcSSCD	<present extension>		This parameter indicates that the private key associated with the certificate is saved on a QSCD (Qualified Signature/Seal Creation Device) in accordance with EU Regulation No. 910/2014
	id-etsi-qcs-QcType	id-etsi-qcs-QcType 1 (id-etsi-qct-esign) Certificate for electronic signatures as defined in Regulation (EU) No 910/2014		Qualified Digital Signature Certificate as defined in the European Regulation No. 910/2014
	id-etsi-qcs-QcPDS	<p>Id-etsi-qcs-QcPDS</p> <p>en: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a></p> <p>pt: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a></p>		This QCStatement has the URLs of the GTS CA Principles Disclosure Statements (PDS)
	<b>Authority Information Access</b>		M	

OID	Componente do Certificado	Valor	Tipo	Comentários
1.3.6.1.5.5.7.48.1	[1] accessMethod	On-line Certificate Status Protocol (1.3.6.1.5.5.7.48.1)		Certificate validation service
	[1] accessLocation	<a href="http://ocsp.globaltrustedsign.com/">http://ocsp.globaltrustedsign.com/</a>		OCSP service location
1.3.6.1.5.5.7.48.2	accessMethod	Certification Authority Issuer (1.3.6.1.5.5.7.48.2)		Parameter used to identify the GTS CA certificate and build the chain of trust
	accessLocation	<a href="http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Location of the GTS CA certificate
1.3.6.1.5.5.7.48.1	<b>Signature Algorithm</b>	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	Algorithm used to create the signature of the certificate
	<b>Signature Value</b>	<It has the digital signature issued by the CA>	M	Signature of the certificate

#### d) Profile of Qualified Signature Certificates for Natural Person – Professional

OID	Componente do Certificado	Valor	Tipo	Comentários
	<b>Version</b>	V3	M	
	<b>Serial Number</b>	<Assigned by the CA to each certificate>	M	
1.2.840.113549.1.1.11	<b>Signature</b>	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	Certificate's signature. The value must be equal to the OID of the <i>SignatureAlgorithm</i> (below)
	<b>Issuer</b>		M	
	Country (C)	"PT"		
	Organization (O)	"ACIN iCloud Solutions, Lda"		
	Organization Unit (OU)	"Global Trusted Sign"		
	Common Name (CN)	Global Trusted Sign Certification Authority 03		
	<b>Validity</b>		M	Validity of the Certificate
	Valid from	<date of issuance>		
	Valid to	<Date of issuance + 1, 2 or 3 years>		1, 2, 3 years maximum validity
	<b>Subject</b>		M	
	Country (C)	<Country>	M	Nationality of the certificate's holder
	OrganizationUnit (OU)	<i>RemoteQSCDManagement</i>	M	Mandatory identifier set on GNS Decision 155/2017

OID	Componente do Certificado	Valor	Tipo	Comentários
	OrganizationUnit (OU)	<Description of the professional association>	O	
	OrganizationUnit (OU)	<Professional association code > <Professional license number >	O	
	OrganizationUnit (OU)	< Description of the profession >	M	
	OrganizationUnit (OU)	<Name of the organization where he/she works>	O	
	Common Name (CN)	<name of the certificate's holder>		
	Surname (SN)	<surnames of the certificate holder>	M*	
	Given Name (G)	<given name of the certificate holder>	M*	
	Organization (O)	<Legal name of the Natural Person> OR <Pseudonym>	M*	Legal name of the Natural Person or, as an alternative, the Pseudonym, followed by the term '(Pseudonym)', indicating the cases when a Pseudonym is used
	Serial Number (serialNumber)	<Unique identifier of the certificate>	M	Unique identifier of the natural person. IDC format<country's code>-<Civil identification of the natural person> (According to 5.1.3. of the ETSI319 412-1)
	OrganizationIdentifier	<Unique identifier of the legal person>	M	Unique identifier of the legal person, other than the name of the Organization. (2.5.4.97) VAT format<country's code>-<TIN of the natural person with pseudonym>
	<b>Subject Alternative Name</b>	<Holder's email>		
	<b>Subject Public Key Info</b>		M	
1.2.840.113549.1.1.1	Algorithm	rsaEncryption (OID: 1.2.840.113549.1.1.1)		Public key algorithm
	subjectPublicKey	<Public Key>		Certificate's public key
	<b>Authority Key Identifier</b>		M	
	keyIdentifier	160-bit hash		It enables to identify the public key corresponding to the private key of the certificate

OID	Componente do Certificado	Valor	Tipo	Comentários
	<b>Subject Key Identifier</b>	160-bit hash	M	Identifier of the certificate's key
	<b>Key Usage</b>		M	
	Digital Signature	"0" selected		
	Non-Repudiation	"1" selected		
	Key Encipherment	"0" selected		
	Data Encipherment	"0" selected		
	Key Agreement	"0" selected		
	Key Certificate Signature	"0" selected		
	CRL Signature	"0" selected		
	Encipher Only	"0" selected		
	Decipher Only	"0" selected		
1.3.6.1.5.5.7.3.4	<b>Extended Key Usage</b>	Email Protection (1.3.6.1.5.5.7.3.4)		
	<b>Certificate Policies</b>		M	
1.3.6.1.4.1.50302.1.1.1.2.1.2	[1]	policyIdentifier: 1.3.6.1.4.1.50302.1.1.1.2.1.2 Policy Qualifier Id=CPS cPSuri: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>		Identifier and location of the GTS CA Certification Practice Statement
	<b>Basic Constraints</b>		M	
	Subject Type	End Entity		Certificate intended to End-Entities
	Path Length Constraint	None		
	<b>CRLDistributionPoints</b>		M	
	[1]	distributionPoint: <a href="http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Location of the GTS CA Certificate Revocation List
	[2]	distributionPoint: <a href="http://pki02.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki02.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Secondary the GTS CA Certificate Revocation List
	<b>Qualified Certificate Statements</b>		M	
	id-etsi-qcs-QcCompliance	<present extension>		The existence of a QCStatement indicates that the certificate is qualified and issued in accordance with EU Regulation No. 910/2014

OID	Componente do Certificado	Valor	Tipo	Comentários
	id-etsi-qcs-QcSSCD	<present extension>		This parameter indicates that the private key associated with the certificate is saved on a QSCD (Qualified Signature/Seal Creation Device) in accordance with EU Regulation No. 910/2014
	id-etsi-qcs-QcType	id-etsi-qcs-QcType 1 (id-etsi-qct-esign) Certificate for electronic signatures as defined in Regulation (EU) No 910/2014		Qualified Digital Signature Certificate as defined in the European Regulation No. 910/2014
	id-etsi-qcs-QcPDS	Id-etsi-qcs-QcPDS en: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a> pt: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>		This QCStatement has the URLs of the GTS CA Principles Disclosure Statements (PDS)
	<b>Authority Information Access</b>		M	
1.3.6.1.5.5.7.48.1	[1] accessMethod	On-line Certificate Status Protocol (1.3.6.1.5.5.7.48.1)		OCSP service location
	[1] accessLocation	<a href="http://ocsp.globaltrustedsign.com/">http://ocsp.globaltrustedsign.com/</a>		Parameter used to identify the GTS CA certificate and build the chain of trust
1.3.6.1.5.5.7.48.2	accessMethod	Certification Authority Issuer (1.3.6.1.5.5.7.48.2)		Location of the GTS CA certificate
	accessLocation	<a href="http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Algorithm used to create the signature of the certificate
1.2.840.113549.1.1.11	<b>Signature Algorithm</b>	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	Signature of the certificate
	<b>Signature Value</b>	<It contains the digital signature issued by the CA>	M	OCSP service location

**e) Profile of Qualified Signature Certificates for Natural Person - Professional Physician**

OID	Componente do Certificado	Valor	Tipo	Comentários
	<b>Version</b>	V4	M	
	<b>Serial Number</b>	<Assigned by the CA to each certificate>	M	
1.2.840.113549.1.1.11	<b>Signature</b>	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	Certificate's signature. The value must be equal to the OID of the <i>SignatureAlgorithm</i> (below)
	<b>Issuer</b>		M	
	Country (C)	"PT"		
	Organization (O)	"ACIN iCloud Solutions, Lda"		
	Organization Unit (OU)	"Global Trusted Sign"		
	Common Name (CN)	Global Trusted Sign Certification Authority 03		
	<b>Validity</b>		M	Validity of the Certificate
	Valid from	<date of issuance>		
	Valid to	<Date of issuance + 1,2 or 3 years>		1, 2, 3 years maximum validity
	<b>Subject</b>		M	
	Common Name (CN)	<name of the certificate's holder>		
	OrganizationUnit (OU)	<i>RemoteQSCDManagement</i>	M	Mandatory identifier set on GNS Decision 155/2017
	OrganizationUnit (OU)	<Description of the professional association>	O	Unique professional identifier of the holder
	OrganizationUnit (OU)	<unique identifier of the holder>	M	Unique identifier of the natural person. IDC format<country's code><Civil identification of the natural person> (According to 5.1.3. of the ETSI319 412-1)
	OrganizationUnit (OU)	<Profession description>	M	Profession identification <Physician> for physicians and dentists
	Given Name (G)	<given name of the certificate holder>	M	
	Surname (SN)	<surnames of the certificate holder>	M	



OID	Componente do Certificado	Valor	Tipo	Comentários
	Serial Number (serialNumber)	<Professional association code >- <Professional license number >	M	MA Format-<License number of the medical association >, DA-<License number of the dental association > and O-<License number of the dental surgery association >
	Organization (O)	<Legal name of the Natural Person>	M	Complete legal name of the Natural Person
	Country (C)	<Country>		Nationality of the certificate's holder
	<b>Subject Alternative Name</b>	<Holder's email>		
	<b>Subject Public Key Info</b>		M	
1.2.840.113549.1.1.1	Algorithm	rsaEncryption (OID: 1.2.840.113549.1.1.1)		Public key algorithm
	subjectPublicKey	<Public Key>		Certificate's public key
	<b>Authority Key Identifier</b>		M	
	keyIdentifier	160-bit hash		It enables to identify the public key corresponding to the private key of the certificate
	<b>Subject Key Identifier</b>	160-bit hash	M	Identifier of the certificate's key
	<b>Key Usage</b>		M	
	Digital Signature	"0" selected		
	Non-Repudiation	"1" selected		
	Key Encipherment	"0" selected		
	Data Encipherment	"0" selected		
	Key Agreement	"0" selected		
	Key Certificate Signature	"0" selected		
	CRL Signature	"0" selected		
	Encipher Only	"0" selected		
	Decipher Only	"0" selected		
1.3.6.1.5.5.7.3.4	<b>Extended Key Usage</b>	Email Protection (1.3.6.1.5.5.7.3.4)		
	<b>Certificate Policies</b>		M	
1.3.6.1.4.1.50302.1.1.1.2.1.2	[1]	policyIdentifier: 1.3.6.1.4.1.50302.1.1.1.2.1.2  Policy Qualifier Id=CPS cPSuri: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>		Identifier and location of the GTS CA Certification Practice Statement

OID	Componente do Certificado	Valor	Tipo	Comentários
	<b>Basic Constraints</b>		M	
	Subject Type	End Entity		Certificate intended to End-Entities
	Path Length Constraint	None		
	<b>CRLDistributionPoints</b>		M	
	[1]	distributionPoint: <a href="http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Location of the GTS CA Certificate Revocation List
	[2]	distributionPoint: <a href="http://pki02.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki02.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Secondary location of the GTS CA Certificate Revocation List
	<b>Qualified Certificate Statements</b>		M	
	id-etsi-qcs-QcCompliance	<i>&lt;present extension&gt;</i>		The existence of a QCStatement indicates that the certificate is qualified and issued in accordance with EU Regulation No. 910/2014
	id-etsi-qcs-QcSSCD	<i>&lt;present extension&gt;</i>		This parameter indicates that the private key associated with the certificate is saved on a QSCD (Qualified Signature/Seal Creation Device) in accordance with EU Regulation No. 910/2014
	id-etsi-qcs-QcType	id-etsi-qcs-QcType 1 (id-etsi-qct-esign) Certificate for electronic signatures as defined in Regulation (EU) No 910/2014		Qualified Digital Signature Certificate as defined in the European Regulation No. 910/2014
	id-etsi-qcs-QcPDS	Id-etsi-qcs-QcPDS en: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a> pt: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>		This QCStatement has the URLs of the GTS CA Principles Disclosure Statements (PDS)
	<b>Authority Information Access</b>		M	
1.3.6.1.5.5.7.48.1	[1] accessMethod	On-line Certificate Status Protocol (1.3.6.1.5.5.7.48.1)		Certificate validation service
	[1] accessLocation	<a href="http://ocsp.globaltrustedsign.com/">http://ocsp.globaltrustedsign.com/</a>		OCSP service location

OID	Componente do Certificado	Valor	Tipo	Comentários
1.3.6.1.5.5.7.48.2	accessMethod	Certification Authority Issuer (1.3.6.1.5.5.7.48.2)		Parameter used to identify the GTS CA certificate and build the chain of trust
	accessLocation	<a href="http://pki.globaltrustedsign.com/su_bca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/su_bca/gts_subca_03_crl.crl</a>		Location of the GTS CA certificate
1.2.840.113549.1.1.11	Signature Algorithm	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	Algorithm used to create the signature of the certificate
	Signature Value	<It contains the digital signature issued by the CA>	M	Signature of the certificate

**f) Profile of Qualified Authentication Certificates for Legal Person (Legal Person Auth)**

OID	Componente do Certificado	Valor	Tipo	Comentários
	Version	V3	M	
	Serial Number	<Assigned by the GTS Certification Authority to each certificate>	M	
1.2.840.113549.1.1.11	Signature	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	
	Issuer		M	
	Country (C)	"PT"		
	Organization (O)	"ACIN iCloud Solutions, Lda"		
	Organization Unit (OU)	"Global Trusted Sign"		
	Common Name (CN)	"Global Trusted Sign Certification Authority 03"		
	Validity			Validity of the Certificate
	Valid from	<Date of issuance>		
	Valid to	< Date of issuance + 1, 2 or 3 years >		1, 2, 3 years maximum validity
	Subject			
	Country (C)	<Country>	M	Nationality of the certificate's holder
	Organization (O)	<Legal name of the Organization>	M	
	OrganizationUnit (OU)	RemoteQSCDManagement	M	Mandatory identifier set on GNS Decision 155/2017
	Common Name (CN)	<Common name of the legal person>		Unique identifier of the certificate's holder
	Surname (SN)	<Holder's surname>	M	

OID	Componente do Certificado	Valor	Tipo	Comentários
	<b>Given Name (G)</b>	<Part of the holder's name that is not his/her surname nor any middle names>	M	
	<b>Serial Number (serialNumber)</b>	<Unique identifier of the certificate>	M	Unique identifier of the natural person. IDC format<country's code>-<Civil identification of the natural person representing the legal person> (According to 5.1.3. of the ETSI319 412-1)
	OrganizationIdentifier	<Unique identifier of the legal person>	M	Unique identifier of the legal person, other than the name of the Organization. (2.5.4.97) VAT format<country's code>-<TIN of the legal person> (According to 5.1.4 of ETSI 319 412-1)
	<b>Subject Alternative Info</b>	<Email do titular>		
	<b>Subject Public Key Info</b>		M	
1.2.840.113549.1.1.1	Algorithm	rsaEncryption (OID: 1.2.840.113549.1.1.1)		Algorithm of the public key
	subjectPublicKey	<Public key>		Certificate's public key
	<b>Authority Key Identifier</b>		M	
	keyIdentifier	160-bit hash		It enables to identify the public key corresponding to the private key of the certificate
	<b>Subject Key Identifier</b>	160-bit hash	M	Identifier of the certificate's key
	<b>Key Usage</b>		M	
	Digital Signature	"1" selected		
	Non-Repudiation	"0" selected		
	Key Encipherment	"0" selected		
	Data Encipherment	"0" selected		
	Key Agreement	"0" selected		
	Key Certificate Signature	"0" selected		
	CRL Signature	"0" selected		
	Encipher Only	"0" selected		
	Decipher Only	"0" selected		

OID	Componente do Certificado	Valor	Tipo	Comentários
1.3.6.1.5.5.7.3.2	<b>Extended Key Usage</b>	Client Authentication (1.3.6.1.5.5.7.3.2)		
	<b>Certificate Policies</b>		M	
1.3.6.1.4.1.50302.1.1.1.2.1.2	[1]	policyIdentifier: 1.3.6.1.4.1.50302.1.1.1.2.1.2 Policy Qualifier Id=CPS cPSuri: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>		Identifier and location of the GTS CA Certification Practice Statement
	<b>Basic Constraints</b>		M	
	Subject Type	End Entity		Certificate intended to End-Entities
	Path Length Constraint	None		
	<b>CRLDistributionPoints</b>		M	
	[1]	distributionPoint: <a href="http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Location of the GTS CA Certificate Revocation List
	[2]	distributionPoint: <a href="http://pki02.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki02.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Secondary location of the GTS CA Certificate Revocation List
	<b>Qualified Certificate Statements</b>		M	
	id-etsi-qcs-QcCompliance	<i>&lt;present extension&gt;</i>		The existence of a QCStatement indicates that the certificate is a qualified and issued in accordance with European Regulation No. 910/2014
	id-etsi-qcs-QcSSCD	<i>&lt;present extension&gt;</i>		This parameter indicates that the private key linked to the certificate is saved on a QSCD (Qualified Signature/Seal Creation Device) in accordance with EU Regulation No. 910/2014
	id-etsi-qcs-QcType	id-etsi-qcs-QcType 1 (id-etsi-qct-esign) Certificate for electronic signatures as defined in Regulation (EU) No 910/2014		Certificate for Qualified Digital Signature as defined in European Regulation (EU) No. 910/2014
	id-etsi-qcs-QcPDS	Id-etsi-qcs-QcPDS en: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a> pt: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>		This QCStatement has the URLs of the GTS CA Disclosure of Principles Statements (DPS)
	<b>Authority Information Access</b>		M	

OID	Componente do Certificado	Valor	Tipo	Comentários
1.3.6.1.5.5.7.48.1	[1] accessMethod	On-line Certificate Status Protocol (1.3.6.1.5.5.7.48.1)		Certificate validation service
	[1] accessLocation	<a href="http://ocsp.globaltrustedsign.com/">http://ocsp.globaltrustedsign.com/</a>		OCSP service location
1.3.6.1.5.5.7.48.2	accessMethod	Certification Authority Issuer (1.3.6.1.5.5.7.48.2)		Parameter used to identify the GTS CA certificate and build the chain of trust.
	accessLocation	<a href="http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Location of the GTS CA certificate
1.2.840.113549.1.1.11	<b>Signature Algorithm</b>	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	Algorithm used to create the certificate's signature
	<b>Signature Value</b>	<It contains the digital signature issued by the CA>	M	Signature of the certificate

### g) Profile of Qualified Authentication Certificates for Natural Person (Natural Person Auth)

OID	Componente do Certificado	Valor	Tipo	Comentários
	<b>Version</b>	V3	M	
	<b>Serial Number</b>	<Assigned by the CA to each certificate>	M	
1.2.840.113549.1.1.11	<b>Signature</b>	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	Certificate's signature. The value must be equal to the OID of the <i>SignatureAlgorithm</i> (below)
	<b>Issuer</b>		M	
	Country (C)	"PT"		
	Organization (O)	"ACIN iCloud Solutions, Lda"		
	Organization Unit (OU)	"Global Trusted Sign"		
	Common Name (CN)	Global Trusted Sign Certification Authority 03		
	<b>Validity</b>		M	Validity of the Certificate
	Valid from	<Date of issuance>		
	Valid to	<Date of issuance + 1, 2 or 3 years>		1, 2, 3 years maximum validity
	<b>Subject</b>		M	
	Country (C)	<Country>		Nationality of the certificate's holder
	OrganizationUnit (OU)	<i>RemoteQSCDManagement</i>	M	Mandatory identifier set on the GNS Decision 155/2017
	Common Name (CN)	<name of the certificate holder>		

OID	Componente do Certificado	Valor	Tipo	Comentários
	Surname (SN)	<surnames of the certificate holder>	M*	
	Given Name (G)	<first names of the certificate holder>	M*	
	Organization (O)	<Legal name of the Natural Person> OR <Pseudonym>	M*	Legal name of the Natural Person or, as an alternative, the Pseudonym, followed by the term '(Pseudonym)', indicating the cases when a Pseudonym is used
	Serial Number (serialNumber)	<Unique identifier of the certificate>	M	Unique identifier of the natural person. IDC format<country code>-<Civil identification of the natural person> (According to 5.1.3. of ETSI319 412-1)
	OrganizationIdentifier	<Unique identifier of the natural person with pseudonym>	O*	Unique identifier of the legal person, other than the name of the organization. (2.5.4.97) VAT format<country code>-<TIN of the natural person with pseudonym>
	<b>Subject Alternative Name</b>	<Holder's email>		
	<b>Subject Public Key Info</b>		M	
1.2.840.113549.1.1.1	Algorithm	rsaEncryption (OID: 1.2.840.113549.1.1.1)		Public key algorithm
	subjectPublicKey	<Public Key>		Certificate's public key
	<b>Authority Key Identifier</b>		M	
	keyIdentifier	160-bit hash		It enables to identify the public key corresponding to the private key of the certificate
	<b>Subject Key Identifier</b>	160-bit hash	M	Identifier of the certificate's key
	<b>Key Usage</b>		M	
	Digital Signature	"1" selected		
	Non-Repudiation	"0" selected		
	Key Encipherment	"0" selected		
	Data Encipherment	"0" selected		
	Key Agreement	"0" selected		

OID	Componente do Certificado	Valor	Tipo	Comentários
	Key Certificate Signature	"0" selected		
	CRL Signature	"0" selected		
	Encipher Only	"0" selected		
	Decipher Only	"0" selected		
1.3.6.1.5.5.7.3.2	<b>Extended Key Usage</b>	Client Authentication (1.3.6.1.5.5.7.3.2)		
	<b>Certificate Policies</b>		M	
1.3.6.1.4.1.50302.1.1.1.2.1.2	[1]	policyIdentifier: 1.3.6.1.4.1.50302.1.1.1.2.1.2 Policy Qualifier Id=CPS cPSuri: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>		Identifier and location of the GTS CA Certification Practice Statement
	<b>Basic Constraints</b>		M	
	Subject Type	End Entity		Certificate intended to End-Entities
	Path Length Constraint	None		
	<b>CRLDistributionPoints</b>		M	
	[1]	distributionPoint: <a href="http://pki.globaltrustedsign.com/subca/qts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/qts_subca_03_crl.crl</a>		Location of the GTS CA Certificate Revocation List
	[2]	distributionPoint: <a href="http://pki02.globaltrustedsign.com/subca/qts_subca_03_crl.crl">http://pki02.globaltrustedsign.com/subca/qts_subca_03_crl.crl</a>		Secondary the GTS CA Certificate Revocation List
	<b>Qualified Certificate Statements</b>		M	
	id-etsi-qcs-QcCompliance	<i>&lt;present extension&gt;</i>		The existence of a QCStatement indicates that the certificate is qualified and issued in accordance with EU Regulation No. 910/2014
	id-etsi-qcs-QcSSCD	<i>&lt;present extension&gt;</i>		This parameter indicates that the private key associated to the certificate is saved on a QSCD (Qualified Signature/Seal Creation Device) in accordance with EU Regulation No. 910/2014
	id-etsi-qcs-QcType	id-etsi-qcs-QcType 1 (id-etsi-qct-esign) Certificate for electronic signatures as defined in Regulation (EU) No 910/2014		Qualified Digital Signature Certificate as defined in the European Regulation No. 910/2014



OID	Componente do Certificado	Valor	Tipo	Comentários
	id-etsi-qcs-QcPDS	Id-etsi-qcs-QcPDS en: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a> pt: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>		This QCStatement has the URLs of the GTS CA Principles Disclosure Statements (PDS)
	<b>Authority Information Access</b>		M	
1.3.6.1.5.5.7.48.1	[1] accessMethod	On-line Certificate Status Protocol (1.3.6.1.5.5.7.48.1)		Certificate validation service
	[1] accessLocation	<a href="http://ocsp.globaltrustedsign.com/">http://ocsp.globaltrustedsign.com/</a>		OCSP service location
1.3.6.1.5.5.7.48.2	accessMethod	Certification Authority Issuer (1.3.6.1.5.5.7.48.2)		Parameter used to identify the GTS CA certificate and build the chain of trust
	accessLocation	<a href="http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Location of the GTS CA certificate
1.2.840.113549.1.1.11	<b>Signature Algorithm</b>	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	Algorithm used to create the signature of the certificate
	<b>Signature Value</b>	<It contains the digital signature issued by the CA>	M	Signature of the certificate

#### h) Profile of Qualified Authentication Certificates for Legal Person - Professional (Legal Person Professional Auth)

OID	Componente do Certificado	Valor	Tipo	Comentários
	<b>Version</b>	V3	M	
	<b>Serial Number</b>	<Assigned by the GTS Certification Authority to each certificate>	M	
1.2.840.113549.1.1.11	<b>Signature</b>	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	
	<b>Issuer</b>		M	
	Country (C)	"PT"		
	Organization (O)	"ACIN iCloud Solutions, Lda"		
	Organization Unit (OU)	"Global Trusted Sign"		
	Common Name (CN)	"Global Trusted Sign Certification Authority 03"		
	<b>Validity</b>			Validity of the Certificate
	Valid from	<Date of issuance>		
	Valid to	<Date of issuance + 1, 2 or 3 years>		1, 2, 3 years maximum validity

OID	Componente do Certificado	Valor	Tipo	Comentários
	<b>Subject</b>			
	Country (C)	<Country>	M	Nationality of the certificate's holder
	Organization (O)	<Legal name of the Organization>	M	
	OrganizationUnit (OU)	<i>RemoteQSCDManagement</i>	M	Mandatory identifier set on GNS Decision 155/2017
	OrganizationUnit (OU)	<Description of the professional association>	O	
	OrganizationUnit (OU)	<Professional association code>- <Professional license number>	O	
	OrganizationUnit (OU)	<Position description>	M	
	OrganizationUnit (OU)	<Area/Department description>	O	
	Common Name (CN)	<Common name of the legal person>		Unique identifier of the certificate holder
	Surname (SN)	<Holder's surname>	M	
	Given Name (G)	<Part of the holder's name that is not his/her surname nor any middle names>	M	
	Serial Number (serialNumber)	<Unique identifier of the certificate>	M	Unique identifier of the natural person. IDC format<country's code>-<Civil identification of the natural person representing the legal person> (According to 5.1.3. of the ETSI319 412-1)
	OrganizationIdentifier	<Unique identifier of the legal person>	M	Unique identifier of the legal person, other than the name of the Organization. (2.5.4.97) VAT format<country's code>-<TIN of the legal person> (According to 5.1.4 of ETSI 319 412-1)
	<b>Subject Alternative Name</b>	<Email do titular>		
	<b>Subject Public Key Info</b>		M	
1.2.840.113549.1.1.1	Algorithm	rsaEncryption (OID: 1.2.840.113549.1.1.1)		Public key algorithm
	subjectPublicKey	<Public Key>		Certificate's public key
	<b>Authority Key Identifier</b>		M	
	keyIdentifier	160-bit hash		It enables to identify the public key corresponding to the private key of the certificate
	<b>Subject Key Identifier</b>	160-bit hash	M	Identifier of the certificate's key
	<b>Key Usage</b>		M	

OID	Componente do Certificado	Valor	Tipo	Comentários
	Digital Signature	"1" selected		
	Non-Repudiation	"0" selected		
	Key Encipherment	"0" selected		
	Data Encipherment	"0" selected		
	Key Agreement	"0" selected		
	Key Certificate Signature	"0" selected		
	CRL Signature	"0" selected		
	Encipher Only	"0" selected		
	Decipher Only	"0" selected		
1.3.6.1.5.5.7.3.2	<b>Extended Key Usage</b>	Client Authentication (1.3.6.1.5.5.7.3.2)		
	<b>Certificate Policies</b>		M	
1.3.6.1.4.1.50302.1.1.1.2.1.2	[1]	policyIdentifier: 1.3.6.1.4.1.50302.1.1.1.2.1.2 Policy Qualifier Id=CPS cPSuri: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>		Identifier and location of the GTS CA Certification Practice Statement
	<b>Basic Constraints</b>		M	
	Subject Type	End Entity		Certificate intended to End-Entities
	Path Length Constraint	None		
	<b>CRLDistributionPoints</b>		M	
	[1]	distributionPoint: <a href="http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Location of the GTS CA Certificate Revocation List
	[2]	distributionPoint: <a href="http://pki02.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki02.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Secondary the GTS CA Certificate Revocation List
	<b>Qualified Certificate Statements</b>		M	
	id-etsi-qcs-QcCompliance	<present extension>		The existence of a QCStatement indicates that the certificate is qualified and issued in accordance with EU Regulation No. 910/2014

OID	Componente do Certificado	Valor	Tipo	Comentários
	id-etsi-qcs-QcSSCD	<present extension>		This parameter indicates that the private key associated with the certificate is saved on a QSCD (Qualified Signature/Seal Creation Device) in accordance with EU Regulation No. 910/2014
	id-etsi-qcs-QcType	id-etsi-qcs-QcType 1 (id-etsi-qct-esign) Certificate for electronic signatures as defined in Regulation (EU) No 910/2014		Qualified Digital Signature Certificate as defined in the European Regulation No. 910/2014
	id-etsi-qcs-QcPDS	Id-etsi-qcs-QcPDS en: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a> pt: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>		This QCStatement has the URLs of the GTS CA Principles Disclosure Statements (PDS)
	<b>Authority Information Access</b>		M	
1.3.6.1.5.5.7.48.1	[1] accessMethod	On-line Certificate Status Protocol (1.3.6.1.5.5.7.48.1)		Certificate validation service
	[1] accessLocation	<a href="http://ocsp.globaltrustedsign.com/">http://ocsp.globaltrustedsign.com/</a>		OCSP service location
1.3.6.1.5.5.7.48.2	accessMethod	Certification Authority Issuer (1.3.6.1.5.5.7.48.2)		Parameter used to identify the GTS CA certificate and build the chain of trust.
	accessLocation	<a href="http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Location of the GTS CA certificate
1.2.840.113549.1.1.11	<b>Signature Algorithm</b>	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	Algorithm used to create the signature of the certificate
	<b>Signature Value</b>	<It contains the digital signature issued by the CA>	M	Signature of the certificate

**i) Profile of Qualified Authentication Certificates for Natural Person – Professional (Natural Person Professional Auth)**

OID	Componente do Certificado	Valor	Tipo	Comentários
	<b>Version</b>	V3	M	
	<b>Serial Number</b>	<Assigned by the CA to each certificate>	M	
1.2.840.113549.1.1.11	<b>Signature</b>	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	Certificate's signature. The value must be equal to the OID of the <i>SignatureAlgorithm</i> (below)

OID	Componente do Certificado	Valor	Tipo	Comentários
	<b>Issuer</b>		M	
	Country (C)	"PT"		
	Organization (O)	"ACIN iCloud Solutions, Lda"		
	Organization Unit (OU)	"Global Trusted Sign"		
	Common Name (CN)	Global Trusted Sign Certification Authority 03		
	<b>Validity</b>		M	Validity of the Certificate
	Valid from	<Date of issuance>		
	Valid to	<Date of issuance + 1, 2 or 3 years>		1, 2, 3 years maximum validity
	<b>Subject</b>		M	
	Country (C)	<Country>		Nationality of the certificate's holder
	OrganizationUnit (OU)	<i>RemoteQSCDManagement</i>	M	Mandatory identifier set on GNS Decision 155/2017
	OrganizationUnit (OU)	<Description of the professional association>	O	
	OrganizationUnit (OU)	<Professional association code>- <Professional license number>	O	
	OrganizationUnit (OU)	<Description of the profession>	M	
	OrganizationUnit (OU)	<Name of the organization where he/she works>	O	
	Common Name (CN)	<name of the certificate holder>		
	Surname (SN)	<surnames of the certificate holder>	M*	
	Given Name (G)	<given name of the certificate holder>	M*	
	Organization (O)	<Legal name of the Natural Person> OR <Pseudonym>	M*	Legal name of the Natural Person or, as an alternative, the Pseudonym, followed by the term '(Pseudonym)', indicating the cases when a Pseudonym is used
	Serial Number (serialNumber)	<Unique identifier of the certificate>	M	Unique identifier of the natural person. IDC format<country's code>-<Civil identification of the natural person> (According to 5.1.3. of the ETSI319 412-1)

OID	Componente do Certificado	Valor	Tipo	Comentários
	OrganizationIdentifier	<Unique identifier of the natural person with pseudonym>	O*	Unique identifier of the legal person, other than the name of the Organization. (2.5.4.97) VAT format<country's code>-<TIN of the natural person with pseudonym>
	<b>Subject Alternative Name</b>	<Holder's email>		
	<b>Subject Public Key Info</b>		M	
1.2.840.113549.1.1.1	Algorithm	rsaEncryption (OID: 1.2.840.113549.1.1.1)		Public key algorithm
	subjectPublicKey	<Public Key>		Certificate's public key
	<b>Authority Key Identifier</b>		M	
	keyIdentifier	160-bit hash		It enables to identify the public key corresponding to the private key of the certificate
	<b>Subject Key Identifier</b>	160-bit hash	M	Identifier of the certificate's key
	<b>Key Usage</b>		M	
	Digital Signature	"1" selected		
	Non-Repudiation	"0" selected		
	Key Encipherment	"0" selected		
	Data Encipherment	"0" selected		
	Key Agreement	"0" selected		
	Key Certificate Signature	"0" selected		
	CRL Signature	"0" selected		
	Encipher Only	"0" selected		
	Decipher Only	"0" selected		
1.3.6.1.5.5.7.3.2	<b>Extended Key Usage</b>	Client Authentication (1.3.6.1.5.5.7.3.2)		
	<b>Certificate Policies</b>		M	
1.3.6.1.4.1.50302.1.1.1.2.1. 2	[1]	policyIdentifier: 1.3.6.1.4.1.50302.1.1.1.2.1.2 Policy Qualifier Id=CPS cPSuri: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>		Identifier and location of the GTS CA Certification Practice Statement

OID	Componente do Certificado	Valor	Tipo	Comentários
	<b>Basic Constraints</b>		M	
	Subject Type	End Entity		Certificate intended to End-Entities
	Path Length Constraint	None		
	<b>CRLDistributionPoints</b>		M	
	[1]	distributionPoint: <a href="http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Location of the GTS CA Certificate Revocation List
	[2]	distributionPoint: <a href="http://pki02.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki02.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Secondary location of the GTS CA Certificate Revocation List
	<b>Qualified Certificate Statements</b>		M	
	id-etsi-qcs-QcCompliance	<i>&lt;present extension&gt;</i>		The existence of a QCStatement indicates that the certificate is qualified and issued in accordance with EU Regulation No. 910/2014
	id-etsi-qcs-QcSSCD	<i>&lt;present extension&gt;</i>		This parameter indicates that the private key associated with the certificate is saved on a QSCD (Qualified Signature/Seal Creation Device) in accordance with EU Regulation No. 910/2014
	id-etsi-qcs-QcType	id-etsi-qcs-QcType 1 (id-etsi-qct-esign) Certificate for electronic signatures as defined in Regulation (EU) No 910/2014		Qualified Digital Signature Certificate as defined in the European Regulation No. 910/2014
	id-etsi-qcs-QcPDS	Id-etsi-qcs-QcPDS en: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a> pt: <a href="https://pki.globaltrustedsign.com/index.html">https://pki.globaltrustedsign.com/index.html</a>		This QCStatement has the URLs of the GTS CA Principles Disclosure Statements (PDS)
	<b>Authority Information Access</b>		M	
1.3.6.1.5.5.7.48.1	[1] accessMethod	On-line Certificate Status Protocol (1.3.6.1.5.5.7.48.1)		Certificate validation service
	[1] accessLocation	<a href="http://ocsp.globaltrustedsign.com/">http://ocsp.globaltrustedsign.com/</a>		OCSP service location
1.3.6.1.5.5.7.48.2	accessMethod	Certification Authority Issuer (1.3.6.1.5.5.7.48.2)		Parameter used to identify the GTS CA certificate and build the chain of trust.
	accessLocation	<a href="http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl">http://pki.globaltrustedsign.com/subca/gts_subca_03_crl.crl</a>		Location of the GTS CA certificate
1.2.840.113549.1.1.11	<b>Signature Algorithm</b>	sha256WithRSAEncryption (1.2.840.113549.1.1.11)	M	Algorithm used to create the signature of the certificate

OID	Componente do Certificado	Valor	Tipo	Comentários
	<b>Signature Value</b>	<It contains the digital signature issued by the CA>	M	Signature of the certificate



### 7.1.1. Version Number(s)

The *version* field of the certificate describes the version used in encoding the certificate. In this profile, the version used is 3 (V3).

### 7.1.2. Certificate Content and Extensions; Application of RFC 5280

The components and extensions defined for X.509 v3 certificates provide methods to associate attributes to users or public keys, as well as to manage the certification hierarchy.

#### 7.1.2.1. Root CA Certificate

Information is available in the certificates on file, which may be consulted by accessing the <https://pki.globaltrustedsign.com/> repository and in section 7.1 of document PL11.

#### 7.1.2.2. Subordinate CA Certificate

See section 7.1.2.1.

#### 7.1.2.3. Subscriber Certificate

See section 7.1.2.1.

#### 7.1.2.4. All Certificates

Information is available in the certificates on file, which can be consulted by accessing the <https://pki.globaltrustedsign.com/index.html> repository and through PL01\_GTS - Qualified Signature Certificate Policy; PL02\_GTS - Electronic Seals Certificate Policy; PL03\_GTS -EV SSL Certificate Policy; PL04\_GTS – OV SSL Certificate Policy; PL16\_GTS - Advanced Signature Certificate Policy; PL17\_GTS - Advanced Electronic Seal Certificate Policy; and PL14\_GTS - Timestamp Certificate Policy.

#### 7.1.2.5. Application of RFC 5280

The components and extensions defined for X.509 v3 certificates provide methods to associate attributes to users or public keys, as well as to manage the certification hierarchy.

### 7.1.3. Algorithm Object Identifiers

#### 7.1.3.1. SubjectPublicKeyInfo

Information is accessible in the profiles of the certificates point 7.1.

#### 7.1.3.2. Signature AlgorithmIdentifier

The certificate *signatureAlgorithm* field contains the OID of the cryptographic algorithm used by the GTS CA to sign the certificate (1.2.840.113549.1.1.11 - sha256WithRSAEncryption).

### 7.1.4. Name Forms

#### 7.1.4.1. Name Encoding

See section 3.1.

#### 7.1.4.2. Subject Information - Subscriber Certificates

See section 3.1.

#### 7.1.4.3. Subject Information - Root Certificates and Subordinate CA Certificates

See section 3.1.

### 7.1.5. Name Constraints

In order to ensure total interoperability between applications that use digital certificates, it is recommended to use only alphanumeric characters without accents, space, underline, minus symbol and full stop ([a-z], [A-Z], [0-9], ' ', '\_', '-', '.') on X.500 directory entries.

### 7.1.6. Certificate Policy Object Identifier

All certificates issued by the GTS PKI contain the following qualifiers: "*policyQualifierID= CPS*" and "*cPSurl*", which points to the URL where the Certification Practices Statement with the OID identified by the "*policyIdentifier*" is found. Other certificate policy object identifiers are included, depending on the type of certificate.

All certificates that have a policy identifier have as the following base number: 1.3.6.1.4.1.50302.

#### **7.1.6.1. Reserved Certificate Policy Identifiers**

See section 7.1.6.1.

#### **7.1.6.2. Root CA Certificates**

See section 7.1.6.1.

#### **7.1.6.3. Subordinate CA Certificates**

See section 7.1.6.1.

#### **7.1.6.4. Subscriber Certificates**

See section 7.1.6.1.

#### **7.1.7. Usage of Policy Constraints Extensions**

No stipulation.

#### **7.1.8. Policy Qualifiers Syntax and Semantics**

The "*certificate policies*" extension contains a type of policy qualifier to be used by certificate issuers and certificate policy authors. The type of qualifier is "*CPSurl*", which contains a pointer, in the form of URL, to the Certification Practices Statement published by the CA and the "*userNotice explicitText*", which contains a pointer, in the form of URL, to the Certificate Policy.

#### **7.1.9. Processing Semantics for the Critical Certificate Policies Extension**

No stipulation.

### **7.2. CRL Profile**

#### **7.2.1. Version Number(s)**

The issued CRLs contain the basic fields and contents, which are detailed in the following table:

Field	Value
Version	V2
Signature Algorithm	The algorithm used by the CA to sign the certificate is sha256WithRSAEncryption
Issuer	DN of the certification authority issuer of the CRL
Effective date	Indication of when the CRL was generated
Next update	Indication of when a new CRL will be generated
Revoked Certificates	Certificate revocation list that provides information on the status of the certificates regarding serial number of the revoked certificate, date when it was revoked and the reason for its revocation

More detailed information on the CRL and OCSP profiles can be found at:

- GTS CA Certificate Revocation List (CRL)
  - <https://pki.globaltrustedsign.com/index.html>
  - <https://pki02.globaltrustedsign.com/index.html>

OCSP Certificates profiles can be consulted at:

- <http://ocsp.globaltrustedsign.com>

### 7.2.2. CRL and CRL Entry Extensions

Extension	Value
Authority Key Identifier	Identifier of the CA issuing the CRL
CRL Number	Sequential number of the CRL

## 7.3. OCSP Profile

### 7.3.1. Version Number(s)

OCSP requests and responses issued by the GTS PKI comply with RFC 6960 version 1.

### 7.3.2. OCSP Extensions

No stipulation.

## **8. Compliance Audit and Other Assessments**

GTS shall perform regular audits and conformity assessments to ensure the conformity of Certification Authorities which are part of its trust hierarchy in accordance with the applicable national legislation, as well as international standards.

The documents (practice statements and certificate policies) are validated annually in accordance with the reference date identified in the document itself, or whenever an amendment is made.

### **8.1. Frequency or Circumstances of Assessment**

Conformity audits in the GTS CA will be conducted regularly in accordance with the applicable legislation by an external entity registered and recognized for that purpose, on the basis of existing standards, and results will be communicated to the supervisory authority.

### **8.2. Identity/Qualifications of Assessor**

The Conformity Assessment Body (CAB) is the body defined in number 13 of Article 2 of Regulation (EC) No 765/2008, which is accredited under that Regulation as being competent to carry out conformity assessment of qualified trust service providers and the trust services they provide.

### **8.3. Assessor's Relationship to Assessed Entity**

The conformity assessment body and its team members are independent, not acting either partially or discriminatory in relation to the entity that is subject to audit. On the relationship between the Auditor and the entity subject to audit, it must be assured the absence of any contractual link. The Auditor and the audited party (Certification Authority) must not have any relationship, current or expected, financial, legal or any other which may lead to a conflict of interest. The Auditor must take into consideration the compliance with the provisions of the legislation in force of aspects related to personal data protection, to the extent allowed to the auditor to access personal data contained in the GTS CA holders' files.

### **8.4. Topics Covered by Assessment**

A security audit is conducted on the basis of the requirements defined in this CP and in accordance with applicable national legislation. It aims to determine the conformity of the GTS CA services defined in this Certificate Policy. Also, it must determine the proper adequacy in relation to several documents, particularly with policies related to security, physical security, technology assessment, CA services management, selection of staff, certification practice statements and policies of valid

certificates, contracts and privacy policies. It can be general or partial, and it can have incidence on any type of documents/processes.

### **8.5. Actions Taken as a Result of Deficiency**

When irregularities are detected in an audit, the CAB shall:

- Document all the deficiencies found during the audit;
- At the end of the audit process, meet with the persons responsible of the authority under audit and submit a brief first impressions report (FIR);
- Prepare the audit report in accordance with the rules and practices established by the Supervisory Authority;
- Submit the audit report to the audited Authority;
- The entity under audit must send an irregularities correction report (ICR) to the Supervisory Authority, describing actions, methodology and time required for the correction of identified deficiencies;
- After the analysis of the report submitted, and depending on the level of seriousness/severity of irregularities, the Supervisory Authority shall select one of the following three options:
  - Accept the terms, allowing business continuity until the next inspection;
  - Allow authority business continuity for a maximum period of 90 days for the correction of irregularities;
  - Immediate revocation of activities.

### **8.6. Communication of Results**

Results of the whole process shall be communicated to the responsible auditors and to GTS.

### **8.7. Self-Audits**

During the period in which the GTS CA issues certificates, it monitors, therefore, the subscription to the Certificate Policies and Certification Practices Statements, thus controlling all requisites for qualitative assurance of service through internal audits carried out quarterly, through a randomly selected sample of at least three percent of the certificates issued during the period to which the audit refers. This audit is carried out by members of the GTS Trust Group, according to the guidelines adopted by the CA/B FORUM.

## 9. Other Business and Legal Matters

It is important to highlight some legal and commercial aspects:

- Fees derived from certificates issuance and/or renewal procedures may be charged;
- Fees derived from chronological validation services may be charged;
- Fees by the availability of certificates in repository will not be charged;
- Access to information about the status or the revoked certificates list (CRL) is free, and no fee is applicable;
- No refunds for the provision of certificate revocation services are applicable.

### 9.1. Fees

#### 9.1.1. Certificate Issuance or Renewal Fees

The fees charged by GTS are indicated at <https://globaltrustedsign.com/> or in a formal proposal made by GTS.

#### 9.1.2. Certificate Access Fees

No stipulation.

#### 9.1.3. Revocation or Status Information Access Fees

Access to information on the certificate or revocation status (CRL) is free of charge.

#### 9.1.4. Fees for Other Services

Fees for other services are identified in a formal proposal.

#### 9.1.5. Refund Policy

The GTS CA does not have a specific refund policy.

The correct issuance of a digital certificate, of any kind, implies the start of the execution of a contract, therefore, in accordance with the legislation applicable to consumer protection, in these cases, the Subscriber loses the right of termination, and consequently, of reimbursement.

## **9.2. Financial Responsibility**

### **9.2.1. Insurance Coverage**

Certification Authorities must respect the legislation in force regarding insurance coverage for civil liability. In this sense, GTS has civil liability insurance, in accordance with article 16 of Decree-Law 62/2003, of 3 April.

### **9.2.2. Other Assets**

No stipulation.

### **9.2.3. Insurance or Warranty Coverage for End-Entities**

GTS has a civil liability insurance, in accordance with article 16 of Decree-Law 62/2003, of 3 April, and with point 8.4 of the Guidelines for the Issuance and Management of Extended Validation Certificates, CA/Browser Forum 1.8.4.

## **9.3. Confidentiality of Business Information**

### **9.3.1. Scope of Confidential Information**

The following is considered as confidential information:

- Certification Authorities private keys;
- Certificate holders' private keys;
- All information concerning parameters of security, control and audit procedures;
- All personal information supplied to GTS CA during the registration process of certificate subscribers, unless there is an explicit authorization for its disclosure;
- Business continuity and recovery plans;
- Transactions records, including complete records and audit records of transactions;
- GTS CA working groups members data.

### **9.3.2. Information not Within the Scope of Confidential Information**

The following is considered as public access information:

- Certification Practice Statements;
- Certification Policies;
- Certificate Revocation Lists (CRLs);
- All information classified as "public".



The GTS CA allows access to non-confidential information, without prejudice to that which shall be established in the CPS and CP, in the domain of security controls necessary to protect its authenticity and integrity.

### **9.3.3. Responsibility to Protect Confidential Information**

The GTS CA practices ensure the protection of confidentiality and integrity of the registration data, especially when transmitted between the GTS CA and the subscribers and holders, as well as during the communication between the distributed components of the GTS CA systems. Within the scope of the services provided, it is necessary to maintain digital evidence for compliance matters with the legislation in force and applicable to the GTS CA. These evidences are kept in order to guarantee their safe collection, transmission, and storage.

## **9.4. Privacy of Personal Information**

### **9.4.1. Privacy Plan**

The Certificate Life Cycle Management System (CLCMS) is responsible for implementing measures that ensure the privacy of personal data, in accordance with applicable Portuguese and European legislation.

### **9.4.2. Information Treated as Private**

Private information is any information supplied by the holder of the certificate that is not publicly available.

### **9.4.3. Information not Deemed Private**

Non-private information is information made public from certificates and therefore is not considered private.

### **9.4.4. Responsibility to Protect Private Information**

Responsibility for the protection of private information is in accordance with the Portuguese legislation, particularly with the General Data Protection Regulation (Regulation 2016/679).

#### **9.4.5. Notice and Consent to Use Private Information**

Procedures for notification and consent to use private information are in accordance with Portuguese law, in particular with the General Data Protection Regulation (Regulation 2016/679).

#### **9.4.6. Disclosure Pursuant Judicial or Administrative Process**

There is no transfer of personal data to third parties, except for duly substantiated legal reasons

#### **9.4.7. Other Information Disclosure Circumstances**

There is no transfer of personal data to third parties, except for duly substantiated legal reasons

### **9.5. Intellectual Property Rights**

All intellectual property rights, including those referred to issued certificates and CRL, OID, CPS, CP, as well as any other related documents, are property of the GTS CA. The private keys and the public keys are property of the holder, independent of the physical means used for storage. The holder always retains the right to his/her trademarks, products or commercial name contained in the certificate.

### **9.6. Representations and Warranties**

#### **9.6.1. CA Representations and Warranties**

The GTS CA is obliged to comply with the following directives:

- To conduct its operations in accordance with this Policy and respective Certificate Practice Statement – DP02;
- To clearly state all its Certification Practices in the appropriate document;
- To comply with specifications defined in the law on Personal Data Protection;
- To protect, where they exist, their private keys and those under its custody;
- To issue certificates in accordance with standard X.509;
- To issue certificates in accordance with the information known at the time of its issuance and free of data input errors;
- To ensure confidentiality during the process of generation of data provided for the creation of signature and its delivery to its holder through a safe procedure;
- To use reliable products and systems that are protected against any alteration and which ensure the technical and cryptographic security of the certification procedures;

- To use reliable systems to store recognized certificates, enabling to verify its authenticity and to prevent unauthorised data alteration;
- To archive, without amendments, issued certificates;
- To ensure that it can be determined, with accuracy of date and time, that a certificate has been issued, or revoked, or suspended;
- To employ staff with skills, knowledge and experience required for the provision of certification services;
- To revoke certificates under the terms provided in the present document, and to update the revoked certificates list in the CRL, with the frequency stipulated in the CPS;
- To publish its CPS and applicable policies in its repository guaranteeing the access to current and previous versions;
- To notify certificate holders by email, and without delay, when GTS CA proceeds to their revocation or suspension, indicating the reason that caused the situation;
- To collaborate with external audits required by the Supervisory Authority;
- To operate in accordance with the policies, standards and regulations that may apply;
- To ensure the availability of the CRL in accordance with provisions set in this document, as well as the availability of the OCSP service;
- To notify the Supervisory Body, at least three months in advance, in the event of cessation of activities, as well as to all holders of certificates issued by the GTS CA;
- To preserve all information and documentation concerning a qualified certificate and the Certification Practice Statements in force at any time during the period set out in the present document;
- To provide the GTS CA certificates.

### **9.6.2. RA Representations and Warranties**

The Registration Authority (RA) is the entity responsible for analysing and evaluating the requests for GTS services, namely the veracity of the documents and validation of the identity of the holders of certificates and requests. This RA has the right to approve or reject the requests after due validation. Additionally, the RA has the authority to approve the revocation of certificates. Global Trusted Sign Registration Authorities meet the requirements set forth in this document and are subject to independent External Audits, as well as Internal Audits performed by Global Trusted Sign on a regular basis.

**a) Internal Registration Authority**

Within the scope of the Global Trusted Sign Certification Authority, the registration authority is executed by its internal services, which have the responsibility of validating the necessary data, as explained in the specific Global Trusted Sign Policies, for each one of the services provided.

**b) External Registration Authority**

Global Trusted Sign has no External Registration Authorities.

### **9.6.3. Subscriber Representations and Warranties**

Holders of issued certificates are obliged to comply with the following directives:

- To limit and to adapt the use of certificates in accordance with the legislation in force and with the uses established in this document;
- To adopt all care and measures necessary to ensure the possession of their private key;
- To immediately request the revocation of a certificate, when there is knowledge or suspicion of compromise of the private key associated to the public key contained in the certificate, in accordance with the procedures specified herein;
- Not to use a digital certificate that has lost its effectiveness, either by having been revoked, suspended or by having expired its validity period;
- To submit to Certification Authorities (or Registration Entities) information deemed accurate and complete in relation to the data requested to conduct the registration process. CA must be notified of any change of such information;
- Not to monitor, manipulate or perform actions of "reverse engineering" on the technical implementation (hardware and software) of certification services, without the GTS CA prior authorization, in writing.

### **9.6.4. Relying Party Representations and Warranties**

Parties relying on the certificates issued by the GTS CA are obliged:

- To limit the reliability of the certificates to the uses allowed for them in conformity with the legislation in force and with the present document;
- To verify certificates validity during any operation based on them;
- To assume responsibility for the duly verification of digital signatures;
- To assume responsibility for the verification of the validity, revocation or suspension of trusted certificates;
- To assume responsibility for the proper verification of issued certificates;

- To have full knowledge of the guarantees and responsibilities applicable to the acceptance and use of trusted certificates and to agree to be bound to them;
- To notify any anomalous fact or situation concerning the certificates, by using means published by the GTS CA in its website.

#### **9.6.5. Representations and Warranties of other Participants**

No stipulation.

#### **9.7. Disclaimer of Warranties**

The GTS CA disclaims all warranties of service which are not related in the obligations set out in this CP.

#### **9.8. Limitations of Liability**

The GTS CA is liable for any damages caused to end users and relying parties that may arise from its activity, in accordance with the applicable legislation. The GTS CA is not responsible for any loss or damage derived from abusive use or beyond the scope of the contract established with users and/or relying parties. The GTS CA does not assume any responsibility in the event of services failure related to force majeure, such as natural disasters, war or other similar.

#### **9.9. Indemnities**

The GTS CA will assume responsibility regarding any compensation, in accordance with the applicable legislation in force.

#### **9.10. Term and Termination**

##### **9.10.1. Term**

This CP comes into force from the moment of its publication at the GTS CA repository and after its approval, on the terms of this document. This CP will be in effect while not revoked expressly by a new version issuance, under the terms of this document, or by the renewal of the GTS CA keys, when, mandatorily, a new version shall be written.

### **9.10.2. Termination**

This CP will be replaced by a new version, regardless of the significance of the changes made to it, so that it will always be of full implementation. When the CP is revoked, it will be removed from the public repository, however, it is ensured that it will be preserved during the period defined in the present document.

### **9.10.3. Effect of Termination and Survival**

Obligations and restrictions defined in this CP, related to audits, confidential information, obligations and responsibilities of the GTS CA, that emanate from its entry into force, will preserve after its replacement or revocation, by a new version, in all that is not contrary to this one.

## **9.11. Individual Notices and Communications with Participants**

All participants must use appropriate mechanisms for collective communication, including digitally signed e-mails, postal mail and signed forms, among others, using the most suitable according to the nature of each case.

## **9.12. Amendments**

### **9.12.1. Procedure for Amendment**

Amendments to this CP must be approved by the Management Group. Amendments must be carried out through documents, containing the new amendments to the CP.

### **9.12.2. Notification mechanism and period**

In the case in which the Management Group considers that the amendments to the specification may affect the acceptability of the certificates for specific purposes, it shall be communicated to the users of the corresponding certificates that an amendment was made and that they should consult the new CP in the repository established. The communication mechanism shall be the website <https://www.globaltrustedsign.com>.

### **9.12.3. Circumstances under which OID must be Changed**

If the GTS CA determines that a change to the identifier (OID) of the certificate policy (CP) is necessary, the change shall contain the new identifiers. Otherwise, the changes should not imply a change in the identifier of the certificate policy.

### **9.13. Dispute Resolution Provisions**

Claims should be addressed, by registered mail, to the GTS CA Management Group. Any dispute arising from the interpretation or application of the present document is governed by the Portuguese law. To resolve disputes, the parties choose the jurisdiction of the Judicial District of Funchal, excluding any other. All claims between users and the GTS CA may be communicated to the Supervisory Authority with the purpose of the resolution of conflicts that may eventually arise.

### **9.14. Governing Law**

The following legislation applies to Certification Authorities providers of trust services:

- EU Regulation No. 910/2014 of the European Parliament and of the Council of 23 July 2014, on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/CE;
- Other national and European legislation on qualified trust services provision.

### **9.15. Compliance with Applicable Law**

This document (CP) is subject to European and national laws, rules, regulations, ordinances, decrees and orders including but not limited to restrictions on export or import of software, hardware or technical information.

If a court or government agency with jurisdiction on the activities covered by this CP determines that compliance with any mandatory requirement is illegal or not appropriate in the country where the CA operates, such requirement shall be considered reformulated to the minimum extent necessary to make the requirement valid and legal. This only applies to operations or issuance of certificates that are subject to the laws of that jurisdiction. GTS commits to notify the CA/Browser Forum about the facts, circumstances, and laws involved so that the CA/Browser Forum may reassess these Guidelines accordingly.

### **9.16. Miscellaneous Provisions**

#### **9.16.1. Entire Agreement**

Relying Parties accept, in its entirety, the content of the latest version of this CP. If one or more provisions of the present document, is or tend to be invalid, void, or not enforceable in legal terms, they should be considered as non-effective. These determinations are valid, only in cases in which such provisions are not considered essential. The Management Group is responsible for assessing their essentiality. Practices adopted by the GTS CA guarantee the independence of members of trust

groups and that of the upper management, and the freedom before trade, financial and other pressures that may affect the trust of services provided. The GTS CA ensures conditions so that their hierarchy services may be used by people with disabilities, in accordance with European Regulation 910/2016.

#### **9.16.2. Assignment**

Parties operating under this CP or applicable agreements may not assign their rights or obligations without the prior written consent of the GTS Trust Group.

#### **9.16.3. Severability**

If a provision of this CP, including limitation of liability clauses, is found to be ineffective or unenforceable, the remainder of this CP shall be construed in the sense of the original intention of the parties. Any provision of this CP that provides for a limitation of liability shall be segregable and independent of any other provision and shall be enforced as such.

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

GTS may claim damages and attorney's fees from a party for damages, losses and/or expenses related to the conduct of that party. The failure of GTS to enforce a provision of this CP does not waive the right of GTS to enforce the same provision thereafter or the right to enforce any other provisions of this CP. To be effective, any waiver must be in writing and signed by GTS.

#### **9.16.5. Force Majeure**

Force majeure clauses are included in the terms and conditions: FO23\_GTS - Terms and Conditions for Qualified Certificates.

### **9.17. Other Provisions**

No stipulation.