



**Policy and practice statement
FOR THE PROVIDED BY “BORICA” AD
QUALIFIED SERVICE
FOR ISSUING QUALIFIED ELECTRONIC TIME STAMPS
OF
B-TRUST QUALIFIED TIME STAMP AUTHORITY**

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POLICY AND PRACTICE STATEMENT FOR THE PROVIDED BY "BORICA" AD QUALIFIED SERVICE FOR ISSUING QUALIFIED ELECTRONIC TIME STAMPS OF B-TRUST QUALIFIED TIME STAMP AUTHORITY

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COMPLIANCE AND USE

This document:

- has been developed by BORICA AD, a legal entity registered in the Commercial Register at the Registry Agency under UIC 201230426;
- has entered into force since 01.07.2017;
- contains the conditions, according to which BORICA AD (Provider) as a Qualified Certificate Services Provider (QCSP), shall provide to Users qualified time stamp tokens through its organizational unit - Qualified Time Stamp Token Registration Authority;
- has the nature of general conditions under art. 33 (2) of the Ordinance on the Activities of Certificate Service Providers, and within the meaning of art. 16 of the Obligations and Contracts Act;
- includes a detailed description of the certificate policy and practice of the QTSP for providing qualified time stamp tokens, and is a public document in order to ascertain the compliance of the QTSP activity with the legal framework;
- can be changed by the QTSP and each new edition is published on the Provider's website.

This document has been prepared in accordance with:

- Regulation 910/2014 of the European Parliament and of the Council on electronic identification and trust services, and refers to information contained in the approved international recommendations, specifications and standards, prepared in accordance with this Regulation;
- The Electronic Document and Electronic Signature Act (EDESA);
- Ordinance on the activities of the Certification Service Providers, the terms and procedures of termination thereof, and the requirements for provision of certification services.

The contents and structure of this document refers to information, contained in the following approved international recommendations, specifications and standards:

- RFC 3161: Internet X.509 Public Key Infrastructure: Time-Stamp Protocol (TSP);
- ETSI EN 319 401: General Policy Requirements for Trust Service Providers;
- EN 319 421: Policy and Security Requirements for Trust Service Providers issuing Electronic Time-Stamps.

Any information relating to this document may be obtained from the Provider at:

41, Tsar Boris III Blvd.,

Sofia 1612,

„BORICA“ AD

1 Introduction

The Qualified Certification Service Provider "BORICA" AD, hereinafter referred to as "QCSP", under the terms of The Electronic Document and Electronic Signature Act (EDESA), Art. 19 issues and maintains certificates of Qualified Electronic Signatures (QES) and Qualified Time Stamp Tokens (QTST).

Time Stamp Tokens provide calibrated official time to certify in a reliable and traceable manner the availability of digital data, including contents of an electronic document before particular moment. When attached to QES in accordance with Art. 40 of the LEDES, the QTST verifies that the electronic signature is created before the time indicated in the QTST.

This document sets out the general terms and conditions that the QTSP follows when issuing Qualified Time Stamp Tokens in accordance with Art. 40 of the EDESA and in the operation and maintenance of this service.

The authority through which the QTSP issues and maintains QTST strictly observes the Policy and Practice contained herein. This Policy and Practice mainly address the above-mentioned scenario of applicability of the QTST to QES, but they are applicable to other scenarios as well.

Considering that the QTST provided by B-Trust Qualified Time Stamp Authority (QTSA) are applicable to different scenarios, the QTSP "BORICA" AD has published general Policy and Practice, which form this document.

The QTSP "BORICA" AD operates the B-Trust QTSA and publicly provides QTST services at the following web address „<http://tsa.b-trust.org>".

2 Scope

This document sets out the requirements to the QTSP Policy regarding the issued QTST and defines the Practice for the operation and management of B-Trust QTSA, in order to allow the users and trusting parties who have concluded Contract for the use of the B-Trust certification services or have signed Service Level Agreement to such Contract, to obtain description and assessment of security of provided qualified service for issuing QTST.

The B-Trust Qualified Time Stamp Services (TSS) use the common infrastructure of B-Trust of "BORICA" AD as a Qualified Certification Service Provider under the EDESA and Regulation 910/2014.

The requirements and conditions contained in the document mainly address B-Trust Qualified TSS in the use and maintenance of QES. They are based on the use of PKI cryptography, public key certificates and source of accurate (official) time, but they could also be used for other purposes.

Users and trusting parties should use this document to obtain complete description and assessment of security of the provided QTST.

3 Terms and definitions

B-Trust QTSA (Qualified Time Stamp Authority) – Certification Authority in the infrastructure of B-Trust that provides QTST.

QTST (Qualified Time Stamp Token) – electronically signed Qualified Time Stamp Token by B-Trust QTSA for the existence of digital content of an electronic document before particular time, specified in the certificate and for the lack of any changes to this content after that moment. When attached to an electronic signature, the certificate creates irrevocability of the signature in time.

Qualified TSS (Qualified Time Stamp Services) – qualified certification services for generating

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secure QTST, keeping records of issued and delivered QTST, verification and validation of the QTST.

TSA system – combination of organized IT products and components, via which B-Trust QTSA provides QTST.

Coordinated Universal Time (UTC) – timeframe based on seconds, as per ITU-R Recommendation TF.460-5.

UTC(k) – timeframe according to laboratory “k”, which resembles UTC, for the purpose of achieving accuracy of plus/minus 100 ns (ITU-R Recommendation TF.536-1 [TF.536-1]).

Service Level Agreement (SLA) – Negotiated agreement for the level of services in the provision of Qualified TSS.

GPS – *Global Positioning System* – Global system for satellite positioning

NTP – *Network Time Protocol* is a protocol for synchronization of clocks in computer systems

NTP Stratum – Stratum in NTP hierarchical order of time sources, determining the shifting of the server compared to a referent time source (Stratum 0).

The other specific terms used in this document follow the definitions given in the “Certification Practice Statement and Certification Policy”, published and available at the website of the QTSP “BORICA” AD (<http://www.b-trust.org>).

4 Concept

4.1 Qualified Time Stamp Service (Qualified TSS)

The infrastructure of B-Trust, which provides, services and maintains Qualified TSS, includes:

- B-Trust Qualified Time Stamp Authority - operating Qualified TSS, generating QTST, maintaining register and archive of issued QTST and managing the service;
- System logistics – accepting online orders and delivery of QTST, verification and validation of issued TST.

The system logistics includes access to a source of accurate time (UTC(k)).

This separation is conditional for the purpose of the document and imposes no restrictions for the use of QTSS.

4.2 B-Trust Qualified Time Stamp Authority (B-Trust QTSA)

“B-Trust QTSA” is the certification authority in the infrastructure of B-Trust, as described in section 4.1, which provides QTST in accordance with the Policy and Practice of QCSP, described in this document, and builds trust with the QTST users.

4.3 Users

The users of QTST are subscribers or trusting parties of B-Trust, in accordance with the “Certification Practice Statement and Certification Policy”, as well as any other individual or legal entity, who has concluded individual contract with “BORICA” AD for Qualified TSS, and respective Service Level Agreement (SLA).

4.4 Policy and Practice

The present document defines the general elements of the policy and practice of the QTSP and provides QTST in its capacity as general conditions.

The Policy sets out the conditions and rules, which QTSP adheres to. The Practice describes how the QTSP implements the described Policy, and the procedures it follows in the provision of QTST.

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B-Trust QTSA issues QTST to each interested party, following standard (non-guaranteed) service level. A rule in the B-Trust QTSA Policy is to issue QTST, following the practice and procedures included in this document.

Any user who needs guaranteed service level for QTST should conclude an Agreement for B-Trust Qualified TSS and SLA.

4.5 Management of the Provider's Policy and Practice

1. The Provider's Policy and Practice are subject to administrative management and supervision by the Board of Directors of BORICA AD.
2. Changes, modifications and additions are allowable, which do not affect the rights and obligations arising from this document and the standard contract between the Provider and the Users, after concordance and approval by the Board of Directors.
3. Any new version or edition of this document, submitted and approved, shall be immediately published on the Provider's website.
4. Any comments, inquiries and clarifications regarding this document may be sent to:
 - E-mail address of the Certification Authority: info@b-trust.org;
 - E-mail address of the Provider: info@borica.bg;
 - tel.: (02) 9215 115 and fax: (02) 981 45 18

5 Policy of B-Trust Qualified Time Stamp Authority

5.1 General overview

The Policy of B-Trust QTSA is the set of rules, which denote the applicability of QTST for a particular application or application class with general requirements to the security level.

B-Trust issues QTST in accordance with "ETSI TS 102 023 Policy Requirements for time-stamping authorities" and the present Policy.

The provided accurate calibrated time per UTC (Coordinated Universal Time) is accurate to 0.5 seconds. When applying one-second adjustment to UTC (leap second) B-Trust QTSA does not issue QTST within this second.

The System logistics of B-Trust QTSA uses GPS source of accurate time for the purpose of ensuring maximum accuracy.

The certificate of the Provider's B-Trust QTSA is a public key certificate, electronically stamped with the Provider's underlying private key. With the private key of B-Trust QTSA, QTST are electronically stamped on the submission of contents of an electronic document by a User and/or by a Trusting party.

The certificate of B-Trust QTSA, certifying the belonging of the public RSA key (2048 bits), used to verify QES in the issued QTST, has a profile in accordance with the document "ETSI EN 319 422 Time-Stamping Protocol and time-stamp token profiles".

The electronic stamps of the Provider, which are accompanied by the official certificate of B-Trust Qualified Time Stamp Authority, are qualified.

The profile of the B-Trust Qualified Time Stamp Authority certificate is specified below.

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Field	Attributes	Meaning/Value
Version	-	V3
Serial number	-	04
Signature algorithm	-	Sha256RSA
Signature hash algorithm	-	Sha256
Issuer	CN =	B-Trust Root Qualified CA
	OU =	B-Trust
	O =	BORICA AD
	OrganizationIdentifier(2.5.4.97) =	NTRBG-201230426
	C =	BG
Validity from	-	2017-05-03T16:42:46Z
Validity to	-	2022-05-03T16:42:46Z
Subject	CN =	B-Trust Qualified Time Stamp Authority
	OU =	B-Trust
	O =	BORICA AD
	OrganizationIdentifier(2.5.4.97) =	NTRBG-201230426
	C =	BG
Public key	-	RSA(2048 Bits)
Subject Key Identifier	-	57 96 93 11 a2 5c 92 ce fb 23 9e 6a d8 85 0c 50 b7 b0 3a a4
Authority Key Identifier	KeyID =	f2 84 ee 2e 35 fe f0 fa d8 50 50 b0 9c 48 89 ea 5a 2f d9 ab
Issuer Alternative Name	URL=	http://www.b-trust.org
Subject Alternative Name	URL=	http://tsa.b-trust.org
Basic Constraints	Subject Type =	End Entity
	Path length Constrains =	None
Certificate Policy	-	[1] Certificate Policy: Policy Identifier=1.3.6.1.4.1.15862.1.6.3 [1,1]Policy Qualifier Info: Policy Qualifier ID=CPS Qualifier: http://www.b-trust.org/documents/cps
	-	[2] Certificate Policy: Policy Identifier=0.4.0.2023.1.1
CRL Distribution Points	-	[1] CRL Distribution Point Distribution Point Name: Full Name: URL=http://crl.b-trust.org/repository/B-TrustRootQCA.crl
	-	[1] Authority Info Access Access Method=On-line Certificate Status Protocol (1.3.6.1.5.5.7.48.1) Alternative Name: URL=http://ocsp.b-trust.org
Authority Information Access	-	[2] Authority Info Access Access Method=Certification Authority Issuer (1.3.6.1.5.5.7.48.2) Alternative Name: URL=http://ca.b-trust.org/repository/B-TrustRootQCAOCSP.cer
	-	[1] Authority Info Access Access Method=On-line Certificate Status Protocol (1.3.6.1.5.5.7.48.1) Alternative Name: URL=http://ocsp.b-trust.org
Key Usage(critical)	-	Digital Signature, Non-Repudiation (c0)
Enhanced Key Usage (critical)	-	Time Stamping (1.3.6.1.5.5.7.3.8)
Thumbprint (Sha1)	-	5e 36 7e a1 80 8b 4b e0 20 d1 1f ff 12 9d f6 d7 d6 b4 f0 da
Thumbprint (Sha256)	-	ce 50 bc a5 c2 f5 1e 95 a5 b0 23 ed c5 1d 3c 55 e6 68 48 4a 8c d2 39 0d ad 0d 7f 7c d6 f1 fa 10

B-Trust uses the following algorithms for electronic signature and data protection:

Algorithm	Designation
Hash algorithm:	SHA1, SHA256
Asymmetric algorithms:	RSA

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5.2 Identifier

B-Trust QTSA issues QTST for two types of content:

- QTST for QES;
- QTST for digital content of random electronic document/statement.

The requirements to the above-mentioned QTST are identical and consistent with those with random use of QTST, according to "ETSI EX 319 421" with policy "OID = 0.4.0.2023.1.1".

Generally, B-Trust QTSA issues QTST, which contains Policy identifier:

Supplier's policy	Identifier (OID)
B-Trust TST	O.I.D. = 0.4.0.2023.1.1

With negotiated SLA, B-Trust QTSA issues QTST, which contains identifier described in the particular agreement.

5.3 Applicability

The policy according to this document does not restrict the applicability of the provided QTST by B-Trust QTSA.

QTST may be used when creating extended formats of QES (XAdES, CAdES, PAdES), in making archives, registers, electronic forms, etc., at the discretion of users.

5.4 Conformity

If required, B-Trust QTSA may use the Policy identifier specified in section 5.2.

The QTST issued are electronically signed by B-Trust QTSA in the capacity of certification authority, identified with its certificate.

The certificate of B-Trust QTSA is used by user/trusting party for verification and validity of the QES in the provided QTST.

6 Obligations of B-Trust QTSA

6.1 General obligations:

- To meet all requirements specified in section 7 of the document for implementation of the Policy;
- To ensure conformity with the requirements specified herein of the Policy, even when the functionality of B-Trust QTSA or a part thereof is provided under an agreement;
- To ensure conformity of the provided QTST with the documented procedures in Practice.

6.2 Obligations to users:

- To observe the general obligations;
- To ensure constant access to the QTST, without the planned technical interruptions and preventive maintenance activities;
- To implement and operate adequate and secure communication infrastructure;
- To provide calibrated time (UTC);
- To indicate in the QTST certified time with accuracy to 500 milliseconds;

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- To maintain the QTST in accordance with conventional international recommendations and specifications;
- To maintain simultaneously a number of sessions of orders for the issuance of QTST;
- Option to scale the productivity (QTST/sec.);
- To use technical equipment corresponding to the general requirements for reliability and security of technical means of the QTSP pursuant to the legal provisions of the EDESA;
- To not violate any licenses, intellectual property or other rights in the issued QTST;
- To not allow modifications of digital data after the issuance of QTST, without this be proven.

6.3 Obligations of users

Users who obtain QTST should verify the electronic signature of B-Trust QTSA and check the validity of the certificate of this authority.

B-Trust QTSA does not require electronic authentication and does not impose any other restriction on the QTST users.

6.4 Obligations of third trusted parties

General obligation of any third trusted party is to verify the qualified electronic stamp in the QTST. They should check the validity of the certificate of B-Trust QTSA. In the event that the period of validity of that certificate has not expired, the third trusted party should:

- check whether this certificate is included in the CRL list;
- check the extent/ level of security of used hash function for QTST;
- check the extent/ level of security of used algorithms, as well as the length of the pair keys for QES in the QTST.

6.5 Responsibility of B-Trust QTSA

B-Trust QTSA operates TSS in complete accordance with the Policy and Practice of QTSP according to the document “Certification Practice Statement and Certification Policy” and the present document. B-Trust QTSA shall not publish/present additional information regarding the provided QTST, unless a user/third trusted party has concluded an Agreement for use of B-Trust QTST and SLA with the QCSP.

B-Trust QTSA shall not be held responsible of any problems occurred during the provision of QTST, resulting from events and causes falling beyond the competence and scope of the QTSP activity.

“BORICA” AD, in the capacity of QTSP under the EDESA, is responsible under this Act and its legal provisions. The QTST is a type of certification service with “irrevocability” profile and requires efficient control on all elements and events in the work of B-Trust QTSA – procedures, QTST transactions, key material, personnel, etc.

7 Practice and procedures of B-Trust QTSA

All procedures, control mechanisms and technical characteristics of B-Trust QTSA, specified herein, supplement those specified in the document “Certification Practice Statement and Certification Policy”, especially in the parts regulating the activity of “BORICA” AD in the capacity of QTSP providing qualified certification services.

The present terms and procedures form the basis of the operative work of B-Trust QTSA.

7.1 Key management

7.1.1 Generation of a pair of keys

The pair of RSA keys is generated in a crypto module with a certified security level FIPS 140-2 Level 3 of the personnel of the QTSP that has the right to perform this function. The generated pair

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of RSA keys has length of 2048 bits.

The description and the role of the QTSP personnel are specified in the document "Certification Practice Statement and Certification Policy". The environment for generating pair of keys by a QTSP Certification authority is described in the same document.

7.1.2 Protection of a private key

The generated private key of B-Trust QTSA is stored in a crypto module (HSM) with a certified level of security FIPS 140-2 Level 3.

A special safe keeps the relevant copies of smart cards together with parts of the private key of B-Trust QTSA.

7.1.3 Distribution of the public key

The public key of B-Trust QTSA is certified for QES, issued from the Root Certification Authority (B-Trust Root Qualified CA) in PKI hierarchy for the issue of certificates for qualified electronic signature.

This certificate with a public key of B-Trust QTSA is entered in the qualified TSS system. In addition, the certificate of B-Trust QTSA is published on the website of the QTSP and may be freely delivered to the personal computers of users who use B-Trust QTST.

7.1.4 Extension of term and/or re-issue of certificates

The period of validity of the certificate of B-Trust QTSA is 5 years. After the expiry of this period, the term of validity of the certificate is extended for a period of 3 years. After expiration of this period a new pair of keys is generated, the private key of which is stored in the crypto module (HSM), while the public key is certified through the issue of a new certificate of B-Trust QTSA. The pair of keys with expired term of validity is stored as follows:

- private key – stored for a period of 10 years;
- public key – stored for a period of 10 years.

7.2 Certification of time

The server software of B-Trust QTSA implements the technical certification of "ETSI EN 319 422 Time-stamping protocol and time-stamp token profiles".

The communication software of the B-Trust QTSA system maintains the communication with customers of the Qualified TSS with protocols: TCP/IP, HTTP/HTTPS.

7.2.1 TST

The profile of orders/responses of B-Trust QTSA system conforms with the above-mentioned technical specifications and includes the following attributes/parameters:

1. The order for the issue of QTST (TSQ) includes:

Attribute name	Value	Description
Version	1	version
Message Imprint	Hash Algorithm: [...]	used hash algorithm (Sha256)
	Hash Value: [...]	hash value of electronic signature of signed electronic document or other digital data
Requested Policy	[option]	identifier of policy to be certified in QTST
Nonce	[option]	additional data to be included in QTST
Certificate Request	[option]	option if QTST should contain certificate of B-Trust QTSA

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Extensions	[option]	additional extensions
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2. The QTST response of the request (TSR) includes:

Attribute name	Value	Description
Version	1	version
Policy	[Policy OID]	identifier of policy for the issue of Time Stamp Tokens
Message Imprint	Hash Algorithm: [...]	used hash algorithm (Sha256)
	Hash Value: [...]	hash value of the electronic signature of signed electronic document or other digital data supplied to the provider
Serial Number	[...]	unique identification code
Generated Time	[...]	time for the submission of electronic signature (certified time under UTC)
Accuracy	500	accuracy in milliseconds = 0.5 seconds
Ordering	true	
Nonce	[option]	additional data required in TSQ;
Tsa	CN = B-Trust Qualified Time Stamp Authority OU = B-Trust O = BORICA AD OrganizationIdentifier(2.5.4.97) = NTRBG-201230426 C = BG	
Extensions	[option]	additional extensions
Digital Signature	[...]	identifiers of algorithms used for the creation of electronic signature (Sha256RSA)
	Signature Value: [...]	electronic signature of QTST
	[Certificate of B-Trust TSA]	certificate of qualified electronic signature of the Certification Service Provider

7.2.2 Time synchronization with UTC

B-Trust QTSA uses hardware source of accurate calibrated time with high accuracy. The synchronization of UTC with the time source is automatic, based on NTP protocol, after establishment of a difference between the source and the time in the system.

In the event of any problems occurred in the hardware time source and until replacement of the same with a spare source, the source of accurate time shall be found in web-based time servers. Synchronization is the basis of at least two web-sources of time via NTP protocol.

The accuracy of the certified time is with deviation up to 0.5 seconds from UTC. B-Trust QTSA does not issue time certificates in a case of larger deviation, lack of UTC synchronization or when applying one-second adjustment to the accurate time (leap second).

7.3 Management and operation

7.3.1 Security management

All aspects of security management for B-Trust QTSA are in accordance with the document “Certification Practice Statement and Certification Policy” .

In the event of a break in the security of the B-Trust QTSA service or loss of data authenticity, all registered users of the service are notified at the earliest opportunity.

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7.3.2 Risk evaluation

All aspects of risk evaluation are in accordance with the document "Certification Practice Statement and Certification Policy".

7.3.3 Personnel security

The characteristics of the QTSP personnel and the appointed positions are in accordance with the document "Certification Practice Statement and Certification Policy".

7.3.4 Access control

Physical control to the environment of QTSP and of B-Trust QTSA is in accordance with the document "Certification Practice Statement and Certification Policy".

7.3.5 Secure environment

The crypto module (HSM) with certified security level FIPS 140-2 Level 3 is the operational environment for storing the private key and for electronic signing of QTST, which are supplied to users.

7.3.6 Termination of TSA

In the event of termination of B-Trust QTSA the relevant procedures from "Certification Practice Statement and Certification Policy" shall be performed.