

# Certification Practice Statement for Cyprus National Electronic Identity (eID)

Version 1.4

**Effective Date: 03 November 2025** 

Electronic Identity (eID) Date: 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



# JCC Payment Systems Ltd Certification Practices Statement for Cyprus National Electronic Identity (eID)

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Page 2 of 92 Stadiou 1, 2571 Nicosia T: +357 22 868500 email: trust-services@jcc.com.cy **Public Use** 

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

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Docume	Document History			
Version	Date	Reason for change		
1.0	20/07/2021	Initial version		
1.1	03/06/2023	Revised Date		
1.2	07/03/2024	Additions of Sections 3.5 & 3.6 to include Suspension & Unsuspension authentication procedures		
1.3	07/03/2025	Inclusion of paragraph 1.3.7		
1.4	03/11/2025	Changes in paragraphs 6.1.5, 7.1.4.1, 7.1.4.2 and 7.3.2		

Stadiou 1, 2571 Nicosia Page **3** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) Date: 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



# **Table of Contents**

1.	INTRO	DDUCTION	11
	1.1 Ove	erview	11
	1.2 Doc	cument name and Identification	13
	1.3 PK	Participants	14
	1.3.1	Certification Authorities	14
	1.3.2	Registration Authorities	14
	1.3.3	Local Registration Authorities	15
	1.3.4	Subscribers	16
	1.3.5	Relying Parties	16
	1.3.6	Other Participants	16
	1.3.7	List	16
	1.4 Cer	tificate Usage	16
	1.4.1	Appropriate Certificate Usages	17
	1.4.2	Prohibited Certificate Uses	17
	1.5 Poli	icy Administration	
	1.5.1	Organization Administering the Document	17
	1.5.2	Contact Person	
	1.5.3	Person Determining CP Suitability for the Policy	18
		olicy Officer and JCC Management jointly determine the suitability and	
	applical	pility of this CPS	18
	1.5.4	CPS Approval Procedure	18
	1.6 Def	initions and Acronyms	18
2.	PUBL:	ICATION AND REPOSITORY RESPONSIBILITIES	19
	2.1 Rep	positories	19
	2.2 Pub	lication of Certificate Information	19
	2.2.1	Publication and Notification Policies	
	2.2.2	Items not published in the Certification Practice Statement	19
	2.3 Tim	ne or Frequency of Publication	20
		ess Controls on Repositories	
3.	IDEN	FIFICATION AND AUTHENTICATION	21
		ning	
	3.1.1	Type of Names	
	3.1.2	Need for Names to be Meaningful	
	3.1.3	Anonymity or Pseudonymity of Subscribers	
	3.1.4	Rules for Interpreting Various Name Forms	
	3.1.5	Uniqueness of Names	
	3.1.6	Recognition, Authentication, and Role of Trademarks	
		ial Identity Validation	
	3.2.1	Method to Prove Possession of Private Key	
	3.2.2	Authentication of Individual Identity	
	3.2.3	Non-Verified Subscriber information	
	3.2.4	Validation of Authority	
	3.2.5	Criteria for Interoperation	
		ntification and Authentication for Re-key Requests	
		>1	

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



3.3.1	Identification and Authentication for Routine Re-key	23
3.3.2	Identification and Authentication for Re-key After Revocation	
3.4 Ide	entification and Authentication for Revocation Request	24
3.5 Ide	entification and Authentication for Suspension Request	24
	entification and Authentication for Unsuspension Request	
4. CERT	TIFICATE LIFE-CYCLE OPERATIONAL	25
4.1 Ce	rtificate Application	
4.1.1	Who Can Submit a Certificate Application?	25
4.1.2		25
4.2 Ce	rtificate Application Processing	
4.2.1	Performing Identification and Authentication Functions	26
4.2.2	Approval or Rejection of eID Applications	
4.2.3	11	
	rtificate Issuance	
4.3.1	CA Actions during Certificate Issuance	
4.3.2	•	
	rtificate Acceptance	
4.4.1	Conduct Constituting Certificate Acceptance	
4.4.2	Publication of the Certificate by the CA	
4.4.3	Notification of Certificate Issuance by the CA to Other Entities	
	ey Pair and Certificate Usage	
4.5.1	Subscriber Private Key and Certificate Usage	
4.5.2	Relying Party Public Key and Certificate Usage	
	ertificate Renewal	
	ertificate Re-Key	
4.7.1	Circumstances for Certificate Re-Key	
4.7.2	Who May Request Certification of a New Public Key	
4.7.3	Processing Certificate Re-Keying Requests	
4.7.4	Notification of New Certificate Issuance to Subscriber	
4.7.5	Conduct Constituting Acceptance of a Re-Keyed Certificate	
4.7.6	Publication of the Re-Keyed Certificate by the CA	
4.7.7	Notification of Certificate Issuance by the CA to Other Entities	
	ertificate Modification	
4.8.1	Circumstances for Certificate Modification	
4.8.2	Who May Request Certificate Modification	
4.8.3 4.8.4	Processing Certificate Modification Requests	
4.8.5		
4.8.5	Conduct Constituting Acceptance of Modified Certificate	
4.8.7	Notification of Certificate Issuance by the CA to Other Entities	
	ertificate Revocation and Suspension	
4.9.1	Circumstances for Revocation	
4.9.1	Who Can Request Revocation	
4.9.2	Procedure for Revocation Request	
4.9.3	Revocation Request Grace Period	
4.9.4	Time within Which CA Must Process the Revocation Request	
7.3.3	Time within without CA widst I rocess the Revocation Request	33

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Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4



4.9.6	Revocation Checking Requirements for Relying Parties	33
4.9.7	CRL Issuance Frequency	
4.9.8	Maximum Latency for CRLs	34
4.9.9	On-Line Revocation/Status Checking Availability	34
4.9.10	On-Line Revocation Checking Requirements	
4.9.11	Other Forms of Revocation Advertisements Available	
4.9.12	Special Requirements regarding Key Compromise	
4.9.13	Circumstances for Suspension	
4.9.14	Who Can Request Suspension	
4.9.15	Procedure for Suspension Request	
4.9.16	Limits on Suspension Period	
4.10 C	Certificate Status Services	
4.10.1	Operational Characteristics	36
4.10.2	Service Availability	36
4.10.3	Optional Features	
4.11 E	and of Subscription	
	Key Escrow and Recovery	
4.12.1	Key Escrow and Recovery Policy and Practices	
4.12.2		
5. FACIL	LITY, MANAGEMENT AND OPERATIONAL CONTROLS	
	vsical Controls	
5.1.1	Site Location and Construction	
5.1.2	Physical Access	
5.1.3	Power and Air Conditioning	
5.1.4	Water Exposures	
5.1.5	Fire Prevention and Protection.	
5.1.6	Media Storage	
5.1.7	Waste Disposal	
5.1.8	Off-Site Backup	
5.1.9	External RA Systems	
	cedural Controls	
5.2.1	Trusted Roles	-
-	Number of Persons Required per Task	
5.2.3	Identification and Authentication for Each Role	
5.2.4	Roles Requiring Separation of Duties	
	sonnel Controls	
5.3.1	Qualifications, Experience, and Clearance Requirements	
5.3.2	Background Check Procedures	
5.3.3	Training Requirements	
5.3.4	Retraining Frequency and Requirements	
5.3.5	Job Rotation Frequency and Sequence	
5.3.6	Sanctions for Unauthorized Actions	
5.3.7	Independent Contractor Requirements	
5.3.8	Documentation Supplied to Personnel	
	dit Logging Procedures	
5.4.1	Types of Events Recorded	
2	-7r	

Electronic Identity (eID) Date: 03 November 2025

Version: 1.4



	5.4.2	Frequency of Processing Log	46
	5.4.3	Retention Period for Audit Log	46
	5.4.4	Protection of Audit Log	46
	5.4.5	Audit Log Backup Procedures	46
	5.4.6	Audit Collection System (Internal vs. External)	47
	5.4.7	Notification to Event-Causing Subject	47
	5.4.8	Vulnerability Assessments	47
	5.5 Rec	cords Archival	47
	5.5.1	Types of Records Archived	47
	5.5.2	Retention Period for Archive	47
	5.5.3	Protection of Archive	
	5.5.4	Archive Backup Procedures	
	5.5.5	Requirements for Time-Stamping of Records	
	5.5.6	Archive Collection System (Internal or External)	
	5.5.7	Procedures to Obtain and Verify Archive Information	
		y Changeover	
	5.7 Co	npromise and Disaster Recovery	
	5.7.1	Incident and Compromise Handling Procedures	
	5.7.2	Computing Resources, Software, and/or Data Are Corrupted	
	5.7.3	Entity Private Key Compromise Procedures	
	5.7.4	Business Continuity Capabilities after a Disaster	50
	5.8 CA	or RA Termination	50
6	. TECH	NICAL SECURITY CONTROLS	52
	6.1 Key	y Pair Generation and Installation	52
	6.1.1	Key Pair Generation	52
	6.1.2	Private Key Delivery to Subscriber	52
	6.1.3	Public Key Delivery to Certificate Issuer	52
	6.1.4	CA Public Key Delivery to Relying Parties	
	6.1.5	Key Sizes	53
	6.1.6	Public Key Parameters Generation and Quality Checking	53
	6.1.7	Key Usage Purposes (as per X.509 v3 Key Usage Field)	53
		vate Key Protection and Cryptographic Module Engineering Controls	
	6.2.1	Cryptographic Module Standards and Controls	53
	6.2.2	Private Key (m out of n) Multi-Person Control	54
	6.2.3	Private Key Escrow	54
	6.2.4	Private Key Backup	54
	6.2.5	Private Key Archival	
	6.2.6	Private Key Transfer Into or From a Cryptographic Module	
	6.2.7	Private Key Storage on Cryptographic Module	55
	6.2.8	Method of Activating Private Key	55
	6.2.9	Method of Deactivating Private Key	
	6.2.10	Method of Destroying Private Key	56
	6.2.11	Cryptographic Module Rating	
	6.3 Oth	er Aspects of Key Pair Management	
	6.3.1	Public Key Archival	
	6.3.2	Certificate Operational Periods and Key Pair Usage Periods	56

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4



6.4 Ac	tivation Data	57
6.4.1	Activation Data Generation and Installation	57
6.4.2	Activation Data Protection	57
6.4.3	Other Aspects of Activation Data	58
6.5 Co	mputer Security Controls	58
6.5.1	Specific Computer Security Technical Requirements	58
6.5.2	Computer Security Rating	59
6.6 Lif	Fe Cycle Technical Controls	
6.6.1	System Development Controls	60
6.6.2	Security Management Controls	60
6.6.3	Life Cycle Security Controls	
	twork Security Controls	
	ne-Stamping	
7. CERT	TIFICATE, CRL, AND OCSP PROFILES	62
7.1 Ce	rtificate Profile	62
7.1.1	Version Number	
7.1.2	Certificate Extensions	62
7.1.3	Algorithm Object Identifiers	
7.1.4	Name Forms	
7.1.5	Name Constraints	
7.1.6	Certificate Policy Object Identifier	
7.1.7	Usage of Policy Constraints Extension	
7.1.8	Policy Qualifiers Syntax and Semantics	
7.1.9	Processing Semantics for the Critical Certificate Policies Extension	
	LL Profile	
7.2.1	Version number	
7.2.2	,	
	CSP Profile	
7.3.1	Version Number	
7.3.2	OCSP Extensions	
	PLIANCE AUDIT AND OTHER ASSESSMENTS	
	equency and Circumstances of Assessment	
	entity/Qualifications of Assessor	
	sessor's Relationship to Assessed Entity	
	pics Covered by Assessment	
	tions Taken as a Result of Deficiency	
	mmunications of Results	
	lf-audits	
	ER BUSINESS AND LEGAL MATTERS	
9.1 Fee	es	
9.1.1	Certificate Issuance or Renewal Fees	
9.1.2	Certificate Access Fees	
9.1.3	Revocation or Status Information Access Fees	
9.1.4	Fees for Other Services	
9.1.5	Refund Policy	
9.2 Fir	nancial Responsibility	74

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4



9.2.1	Insurance Coverage	74
9.2.2	Other Assets	
9.2.3	Insurance or Warranty Coverage for End-Entities	74
9.3 Co	onfidentiality of Business Information	74
9.3.1	Scope of Confidential Information	74
9.3.2	Information Not Within the Scope of Confidential Information	74
9.3.3	Responsibility to Protect Confidential Information	75
9.4 Pr	ivacy of Personal Information	75
9.4.1	Privacy Plan	75
9.4.2	Information Treated as Private	75
9.4.3	Information Not Deemed Private	75
9.4.4	Responsibility to Protect Private Information	75
9.4.5	Notice and Consent to Use Private Information	75
9.4.6	Disclosure Pursuant to Judicial or Administrative Process	75
9.4.7	Disclosure upon Owner's Request	76
9.4.8	Other Information Disclosure Circumstances	76
9.5 Int	ellectual Property rights	76
9.5.1	Property Rights in Certificates and Revocation Information	76
9.5.2	Property Rights in the CPS	76
9.5.3	Property Rights in Names	
9.5.4	Property Rights in Keys and Key Material	76
9.5.5	Violation of Property Rights	77
9.6 Re	presentations and Warranties	77
9.6.1	CA Representations and Warranties	77
9.6.2	RA Representations and Warranties	78
9.6.3	Subscriber Representations and Warranties	78
9.6.4	Relying Party Representations and Warranties	79
9.6.5	Representations and Warranties of Other Participants	79
9.7 Di	sclaimers of Warranties	80
9.8 Li	mitations of Liability	80
9.9 Inc	demnities	80
9.9.1	Indemnification by Subscribers	80
9.9.2	Indemnification by Relying Parties	81
9.10	Term and Termination	81
9.10.1	Term	81
9.10.2	Termination	81
9.10.3	Effect of Termination and Survival	81
9.11	Individual Notices and Communications with Participants	81
9.12	Amendments	82
9.12.1	Procedure for Amendment	82
9.12.2	Notification Mechanism and Period	82
9.12.3	Circumstances under Which OID Must be changed	83
	Dispute Resolution Provisions	
9.13.1	Disputes among JCC, Affiliates, and Customers	
9.13.2	Disputes with Subscribers or Relying Parties	
9.14	Governing Law	83

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4



9.15 Compliance with	n Applicable Law	83
9.16 Miscellaneous Pr	rovisions	84
9.16.1 Entire Agreem	nent	84
_		
•	Attorney's Fees and Waiver of Rights)	
`	; ;	
•		
Appendix A. Table of A	cronyms and definitions	86
<u> </u>		

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



#### 1. INTRODUCTION

This document is the JCC Payment Systems Ltd Certification Practice Statement ("CPS") for Trust Services. It states the practices that JCC Payment Systems Trusted Service Provider (TSP) employs in providing Certificates for Cyprus National Electronic Identity (eID)..

This document establishes the business, legal, and technical requirements for approving, issuing, managing, using, revoking, and renewing, digital Certificates and providing associated trust services. These requirements apply to all Certificate Authorities (CAs), Registration Authorities (RAs), Processing Centers, Affiliates, Subscribers, Relying Parties, and other PKI entities that interoperate with JCC's PKI.

This CPS describes how JCC Payment Systems meets these requirements in accordance with Regulation (EU) N° 910/2014 and describes the practices and procedures that JCC Payment Systems employs for:

- Securely managing the related infrastructure that supports the JCC's PKI, and
- Issuing, managing, revoking and renewing of Authentication certificates & EU
  Qualified Certificates for Electronic Signature for Cyprus National Electronic Identity
  (eID) as defined in Regulation (EU) N° 910/2014 and the National Law

This CPS conforms to the Internet Engineering Task Force (IETF) RFC 3647 for Certificate Policy and Certification Practice Statement construction.

Management may make exceptions to this Certification Practice Statement on a case-by-case basis to mitigate material, imminent impacts to customers, partners, relying parties, and/or others within the certificate ecosystem where practical workarounds do not exist. Any such management exceptions are documented, tracked, and reported as part of the audit process.

This CPS is binding for Customers, Subscribers and Relying Parties of JCC Payment Systems, in parallel with the General Terms and Conditions which cover a broader range of commercial terms and are available at <a href="https://pki.jcc.com.cy/repository/terms-and-conditions/">https://pki.jcc.com.cy/repository/terms-and-conditions/</a>.

#### 1.1 Overview

This CPS describes the practices and procedures used to address all the requirements identified by Regulation (EU) N° 910/2014 and National Law, for issuing, maintenance and lifecycle management of Cyprus National Electronic Identity certificates

These practices and procedures are compliant with ETSI EN 319 411-2 Policy: QCP-n-qscd for EU Qualified Certificates for electronic signatures and with ETSI EN 319 411-1 Policy: extended Normalized Certificate Policy (NCP+) for all types of certificates.

JCC Payment Systems is currently using the following certificate chain:

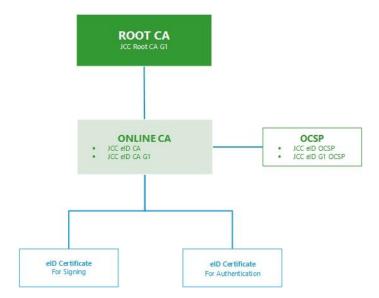
Stadiou 1, 2571 Nicosia Page **11** of **92**T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 





This CPS is specifically applicable to JCC Payment Systems Issuing CAs, who issue:

- EU Qualified Certificates for electronic signatures for eID
- Authentication certificates for authentication for eID

Private CAs or services provided by JCC Payment Systems to other Organizations are also within the scope of this CPS. The practices relating to services provided by other Organizations are beyond the scope of this CPS.

JCC Payment Systems publishes this CPS in order to comply with the specific policy requirements of the applicable legislation, or other industry standards and requirements.

The CPS is only one of a set of documents relevant to JCC Payment Systems Trust Services. These other documents include:

- Ancillary confidential security and operational documents<sup>3</sup> that supplement the CPS by providing more detailed requirements, such as:
  - Key Ceremony Reference Guide, which presents detailed CA key management operational requirements.
  - The JCC Payment Systems Physical and Environmental Security Policy which sets forth security principles governing JCC Payment Systems infrastructure,
  - The JCC Payment Systems Information Security Policy that states the requirements for Information System infrastructure in order to operate securely and according to relative legislative and contractual requirements.

<sup>&</sup>lt;sup>3</sup> Although these documents are not publicly available their specifications are included in JCC Payment Systems Conformity Assessment Report for Trust Service Providers issuing EU Qualified certificates and may be made available to customer under special agreement,

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



- JCC Payment Systems Key Management Policy, which presents detailed key management operational requirements.
- JCC Payment Systems Certificate Policy (CP)
- General Terms and Conditions imposed by JCC Payment Systems. These General Terms and Conditions bind Customers, Subscribers and Relying Parties of JCC Payment Systems. Among other things, the General Terms and conditions cover a broad range of commercial terms and JCC Payment Systems Trust Services specific terms.

In many instances, the CPS refers to these ancillary documents for specific, detailed practices implementing JCC Payment Systems Policies where including the specifics in the CPS could compromise the security of JCC Payment Systems' CA.

## 1.2 Document name and Identification

This document is the JCC Payment Systems Certification Practice Statement for Qualified Certificates.

JCC CA Certificates are issued according to the following certificate policies:

1.3.6.1.4.1.56511	Identification Number (OID) of JCC		
	Payment Systems, registered to IANA		
1.3.6.1.4.1.56511.1	Trust Service Provider		
1.3.6.1.4.1.56511.1.1	Trust Services Certificate Policy (CP)/		
1.3.6.1.4.1.56511.1.1.1	Certification Practice Statement (CPS) for		
	EU Qualified Certificates for Electronic		
	Signatures and Electronic Seals		
1.3.6.1.4.1.56511.1.1.2	Certification Practice Statement (CPS) for		
	Cyprus National Electronic Identity (eID)		
1.3.6.1.4.1.56511.1.1.1.0	Qualified Signature certificate QCP-n-qscd		
	(0.4.0.194112.1.2)		
1.3.6.1.4.1.56511.1.1.1	Qualfied Seal certificate QCP-l-qscd		
	(0.4.0.194112.1.3)		
1.3.6.1.4.1.56511.1.1.2.1	eID Signature certificate QCP-n-qscd		
	(0.4.0.194112.1.2)		
1.3.6.1.4.1.56511.1.1.2.2	eID Authentication certificate NCP+		
	(0.4.0.2042.1.2)		

The applicable and current CPS (OID) shall be inserted by reference within each and every Certificate Policy ruled by the JCC Payment Systems CPS.

Certificate Policy Object Identifiers, are used in accordance with Section 7.1.

Stadiou 1, 2571 Nicosia Page **13** of **92**T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) Date: 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



# 1.3 PKI Participants

#### 1.3.1 Certification Authorities

The authority trusted by the users of the certification services (i.e. subscribers as well as relying parties) to create and assign certificates, is called the CA. The CA has overall responsibility for the provision of the certification services.

JCC Payment Systems is currently using the following certificate hierarchy: List of Root CAs

A/A	Subject	Certificate SHA-256 Fingerprint
	Distinguished	
	Name	
1	CN=JCC Root CA	B55650C17CBCF1D4F8A38F0C0A58F434495941077A93E762D6C9E69D87A04351
	G1	
	O = JCC PAYMENT	
	SYSTEMS LTD	
	C = CY	

## List of Issuing Cas

213t 01 133d1116 Cd3			
A/A	Subject	Certificate SHA-256 Fingerprint	
	Distinguished		
	Name		
1	CN = JCC eID CA	8653a6b2ec8aa847706c2d4048b58861cafaedca333b2c145e96111e966f8740	
	2.5.4.97 =		
	VATCY-		
	10029914L		
	O = JCC		
	PAYMENT		
	SYSTEMS LTD		
	C = CY		
2	CN = JCC eID CA	c23d300b481fce5440098e78edcdd9ff01e501471683b6ead8d9d893c18ee04e	
	G1		
	2.5.4.97 =		
	VATCY-		
	10029914L		
	O = JCC		
	PAYMENT		
	SYSTEMS LTD		
	C = CY		

#### 1.3.2 Registration Authorities

A Registration Authority is an entity that performs identification and validation of Subscribers and Subjects for issuing Certificates, initiates or passes along revocation requests for Certificates, and approves applications for re-keying certificates on behalf of the CA. JCC Payment Systems acts as an RA for all Certificates it issues.

Stadiou 1, 2571 Nicosia Page 14 of 92 **Public Use** 

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



JCC Payment Systems has the authority to enter into a contractual relationship with one or more third parties, in order to outsource part of RA responsibilities, especially regarding the validation of the Subscriber and Subject. In this case, the third party constitutes a Local Registration Authority (LRA). LRA performs its responsibilities in full compliance with this CPS, the respective Validation plans and the terms of the LRA Agreement signed between LRA and JCC Payment Systems.

JCC Payment Systems trains LRA's authorized employees on validation process and security procedures, prior starting LRA's related operations. Thereafter, JCC Payment Systems retrains yearly LRA's authorized employees.

JCC Payment Systems performs yearly audits to the LRA operations and procedures in order to ensure compliance with this CPS, the Validation Plans and the LRA Agreement.

Third parties, who enter into a contractual relationship with JCC Payment Systems, may operate their own RA and authorize the issuance of certificates by a JCC Payment Systems CA. In this case, the third party becomes a RA and performs its responsibilities in full compliance with this CPS, the respective Validation plans and the terms of the RA Agreement signed between RA and JCC Payment Systems.

Validation of domain portion of the email address cannot be delegated to a third party and is only validated by the RA of the Issuer CA.

#### 1.3.3 Local Registration Authorities

A Local Registration Authority is an entity that performs the identification and validation of Subscribers and Subjects and the initial examination of their respective documents for the issuance, re-keying and revocation of Certificates. The relationship between LRA and RA is described in the LRA's contract agreement and includes, but not limited, the following:

- Full details of LRA's authorized employees, that will perform LRA's duties and activities;
- LRA's obligation to receive yearly training of LRA's authorized employees from JCC Payment Systems regarding LRA's duties and activities and to accept yearly audits by JCC Payment Systems regarding LRA operations and procedures;
- LRA's authorized employee's obligation to use credentials issued by JCC Payment Systems RA to ensure secure communications between both parties;
- LRA's obligation to process Subscribers' applications exclusively through LRA's authorized employees

Local Registration Authority passes all Subscriber's applications or requests accompanied by the related documents to the Registration Authority for approval or rejection of Certificate issuance, re-keying or revocation.

Stadiou 1, 2571 Nicosia Page **15** of **92**T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



JCC Payment Systems also acts as an LRA for all the identification and validation of Subscribers and Subjects.

#### 1.3.4 Subscribers

Two different terms are used in this CPS to distinguish between these two roles: "Subscriber", is the entity which contracts with JCC Payment Systems for the issuance of credentials and; "Subject", is the person to whom the credential is bound. The Subscriber bears ultimate responsibility for the use of the credential but the Subject is the individual that is authenticated when the credential is presented.

Subscriber means a natural person to whom JCC Payment Systems provides the Trust Services according to this CPS.

The subject means:

- a natural person
- a natural person who is identified in association with a legal person
- a legal person

## 1.3.5 Relying Parties

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

#### 1.3.6 Other Participants

Not applicable.

## 1.3.7 List

Local Registration	Registration Authorities	Managed PKI Services
Authorities		
Citizen Service Centers	JCC	Adacom Cyprus Cyber Security
JCC		
Cyprus Stock Exchange		

# 1.4 Certificate Usage

A digital Certificate is formatted data that cryptographically binds an identified Subscriber with a Public Key. A digital Certificate allows an entity taking part in an electronic transaction to prove its identity to other participants in such transaction. Qualified Certificates for

Stadiou 1, 2571 Nicosia Page **16** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



electronic signatures are normally used by individuals to sign and encrypt e-mail and for authentication purposes, provided that the usage is not otherwise prohibited by law, by this CPS and any agreements with Subscribers. Authentication Certificates are used for electronic identification.

## 1.4.1 Appropriate Certificate Usages

## 1.4.1.1 Certificates Issued for electronic signature

Certificates are compliant with QCP-n-qscd.

Certificates issued under these requirements are aimed to support qualified electronic signatures with the use of a Qualified Signature Creation Device (QSCD) such as defined in article 3 (12) of the Regulation (EU) N° 910/2014 [i.1].

## 1.4.1.2 Certificates Issued for authentication

Certificates are compliant with NCP+.

Certificates issued under these requirements are aimed to support authentication with the use of a Qualified Signature Creation Device (QSCD).

The Authentication Certificate cannot be used to create Qualified Electronic Signatures compliant with eIDAS.

#### 1.4.2 Prohibited Certificate Uses

Certificates shall be used only to the extent the use is consistent with applicable law, and in particular shall be used only to the extent permitted by applicable export or import laws. Usage of Certificates that are issued by JCC Payment Systems, other than to support applications identified in Section 1.4.1 of the present CPS is prohibited.

CA Certificates may not be used for any functions except CA functions. In addition, Subscriber Certificates shall not be used as CA Certificates.

Relying Parties shall use the JCC Payment Systems Certificate Policy OIDs as identified in the Certificate to appropriately accept or reject a Certificate usage.

# 1.5 Policy Administration

#### 1.5.1 Organization Administering the Document

This CPS and the relevant documents referenced herein are maintained by the QTSP Policy Officer and JCC Management, which can be contacted at:

JCC Payment Systems Ltd

1 Stadiou Street

2571 Industrial Area Nisou

Stadiou 1, 2571 Nicosia Page **17** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) Date: 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



## Cyprus

#### 1.5.2 Contact Person

QTSP Policy Officer JCC Payment Systems Ltd 1 Stadiou Street 2571 Industrial Area Nisou Cyprus

Telephone: (+357) 22 868 500

Fax: (+357) 22 868 591 trust-policies@jcc.com.cy

#### 1.5.2.1 Revocation Contact Person

For Certificate revocation requests, refer to paragraph 4.9.3.

# 1.5.3 Person Determining CP Suitability for the Policy

QTSP Policy Officer and JCC Management jointly determine the suitability and applicability of this CPS.

#### 1.5.4 CPS Approval Procedure

Subsequent amendments to this CPS are performed by the QTSP Policy Officer under JCC Management approval. The revised edition of the CPS and any other QTSP technical and operational document must be approved by the QTSP Policy Management which is consisted by the QTSP Manager, Information Security & Risk Management Manager, Chief Operating Officer or Chief Executive Officer. QTSP Policy Management will decide whether the document needs to be approved by the ISSC. Amendments are either in the form of a document containing an amended form of the CPS or an update notice. Amended versions or updates shall be linked to the JCC Payment Systems Repository located at: https://pki.jcc.com.cy/repository

Updates supersede any designated or conflicting provisions of the referenced version of the CPS. The QTSP Policy Officer shall determine whether changes to the CPS require any changes in the Certificate policy object identifiers of the Certificate policies.

# 1.6 Definitions and Acronyms

See Appendix A for a table of acronyms and definitions.

Stadiou 1, 2571 Nicosia Page 18 of 92 T: +357 22 868500 email: trust-services@jcc.com.cy **Public Use** 

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



### 2. PUBLICATION AND REPOSITORY RESPONSIBILITIES

# 2.1 Repositories

Upon revocation of a Subscriber's Certificate, JCC Payment Systems publishes notice of such revocation in the repository. JCC Payment Systems issues Certificate Revocation Lists (CRLs) and provides OCSP services pursuant to the provisions of this CPS.

JCC Payment Systems shall ensure that its repository is available 24 hours a day, 7 days a week, with a minimum of 99,00% availability overall per year with a scheduled down-time that does not exceed 0,5% annually.

Upon system failure, service or other factors which are not under the control of JCC Payment Systems, JCC Payment Systems shall apply best endeavours to ensure that this information service is not unavailable for longer than above time.

#### 2.2 Publication of Certificate Information

JCC Payment Systems maintains a web-based repository in a public data communications network (<a href="https://pki.jcc.com.cy/repository">https://pki.jcc.com.cy/repository</a>) that permits Relying Parties to make online inquiries regarding revocation and other Certificate status information. JCC Payment Systems provides Relying Parties with information on how to find the appropriate repository to check Certificate status and how to find the right OCSP responder.

JCC Payment Systems publishes in its public information repository at least the following information:

- Overview of the certification hierarchy
- Certification Practice Statements
- Certification Policies
- Certificates, including root and issuing CAs
- Certificate Profiles
- General Terms and Conditions for use of Certificates
- Certificate Revocation Lists link

#### 2.2.1 Publication and Notification Policies

This JCC Payment Systems CPS is published in JCC Payment Systems public information repository.

JCC Payment Systems CPS along with the enforcement dates is published no less than 30 days prior taking effect.

#### 2.2.2 Items not published in the Certification Practice Statement

Refer to Section 9.3.1 of this CPS.

Stadiou 1, 2571 Nicosia Page **19** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



# 2.3 Time or Frequency of Publication

Refer to section 2.2.1 of current CPS for updates to this CPS. Updates to Subscriber and Relying Party General Terms and Conditions are published as necessary. Certificate status information is published in accordance with the provisions of this CPS.

# 2.4 Access Controls on Repositories

Information published in the repository portion of the JCC Payment Systems web site is publicly-accessible information. Read only access to such information is unrestricted. JCC Payment Systems requires persons to agree to General Terms and Conditions as a condition to accessing Certificates, Certificate status information, or CRLs. JCC Payment Systems has implemented logical and physical security measures to prevent unauthorized persons from adding, deleting, or modifying repository entries according to the applicable JCC Payment Systems security policies. JCC Payment Systems makes its repository publicly available in a read only manner, and specifically at the link <a href="https://pki.jcc.com.cy/repository">https://pki.jcc.com.cy/repository</a>.

Stadiou 1, 2571 Nicosia Page **20** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



### 3. IDENTIFICATION AND AUTHENTICATION

# 3.1 Naming

Naming in certificates are as specified in Recommendation ITU-T X.509 [6] or IETF RFC 5280 [7] and the appropriate part of ETSI EN 319 412

# 3.1.1 Type of Names

Type of names assigned to the CA and to the Subscriber is described in the relevant Certificate Profile documentation publish in JCC Payment Systems repository

JCC Payment Systems CA and Subscriber Certificates contain X.501 Distinguished Names in the Issuer and Subject fields.

# 3.1.2 Need for Names to be Meaningful

Subscriber Certificates contain names with commonly understood semantics permitting the determination of the identity of the individual or organization that is the Subject of the Certificate.

JCC Payment Systems CA certificates contain names with commonly understood semantics permitting the determination of the identity of the CA that is the Subject of the Certificate.

## 3.1.3 Anonymity or Pseudonymity of Subscribers

Not allowed.

#### 3.1.4 Rules for Interpreting Various Name Forms

No stipulation.

#### 3.1.5 Uniqueness of Names

JCC Payment Systems ensures that Subject Distinguished Names (DN) of Subscriber are unique within the domain of a specific CA through automated components of the Subscriber enrollment process. The uniqueness of the Distinguished Name for electronic signatures is ensured by the Serial Number attribute value in the Subject field of the certificate.

The process to ensure that the values put in the serialNumber attribute are unique, is based on the uniqueness of each subscriber's certificate application entry within the application.

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

Certificate applicants are prohibited from using names in their Certificate Applications that infringe upon the Intellectual Property Rights of others. JCC Payment Systems, however, does not verify whether a Certificate Applicant has Intellectual Property Rights in the name appearing in a Certificate Application or arbitrate, mediate or otherwise resolve any dispute

Stadiou 1, 2571 Nicosia Page **21** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



concerning the ownership of any domain name, trade name, trademark, or service mark. JCC Payment Systems is entitled, without liability to any Certificate Applicant, to reject or suspend any Certificate Application because of such dispute.

# 3.2 Initial Identity Validation

JCC Payment Systems may use the following methods described in this Section to ascertain the identity of a Subscriber. JCC Payment Systems may refuse to issue a Certificate at its sole discretion if identity validation is not successful.

Identity validation is part of the process of the certificate application certificate issuance and device provisioning.

# 3.2.1 Method to Prove Possession of Private Key

The key generation process is ensured by this CPS in compliance with the ETSI EN 319 401, ETSI EN 319 411-1 and ETSI EN 319 411-2 technical standards.

The Certificate applicant must demonstrate that it rightfully holds the private key corresponding to the public key to be listed in the Certificate. The method to prove possession of a private key shall be PKCS #10, another cryptographically equivalent demonstration or another JCC Payment Systems approved method.

#### 3.2.2 Authentication of Individual Identity

The natural person's identity who is the Subscriber/Subject of eID Certificates is verified pursuant to current legislation and the following requirements:

- i) by the physical presence of the natural person who submits to a JCC Payment Systems' RA or an LRA authorized by JCC Payment Systems the following documents:
  - Biometric Cyprus national identity card

The authorized JCC Payment Systems' LRA or RA confirms Subject's identity by comparing one or more physical characteristics of the applicant according to the information provide on the biometric identity card.

A photocopy of the submitted identity document, which must be signed by the authorized JCC Payment Systems' RA or an LRA authorized by JCC Payment Systems;

iii) by electronic identification where user must upload a copy of his/her Cypriot Biometric National identity card. This type of authentication must be based on previous identification and authentication of all required Subscriber information either a) by physical presence, or b) by using other identification methods recognised at national level which provide equivalent assurance in terms of reliability to physical presence.

Stadiou 1, 2571 Nicosia Page **22** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) Date: 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



In case the individual requesting the Certificate is an RA or LRA's authorized employee, the identity validation of this very individual must not be conducted by herself/himself and must involve one of her/his RA/LRA peers.

#### 3.2.2.1 Domain Email validation

JCC Payment Systems verifies a Subscriber's right to use or control an email address to be contained in a Certificate that will have the "Secure Email" EKU by sending an approval email message to the email address to be included in the Certificate and by sending a unique Random Value by SMS to the mobile number provided in the signed application form by the Subscriber.

#### 3.2.3 Non-Verified Subscriber information

Non-verified subscriber information includes:

- Organization Unit (OU) attributes
- Any other information designated as non-verified in the Certificate

## 3.2.4 Validation of Authority

Not applicable.

#### 3.2.5 Criteria for Interoperation

No stipulation.

# 3.3 Identification and Authentication for Re-key Requests

Prior to the expiration of an existing Certificate, it is necessary for the Subscriber to obtain a new certificate to maintain continuity of Certificate usage. JCC Payment Systems generally requires that the Subscriber generate a new key pair to replace the expiring key pair (technically defined as "rekey").

Please refer to Sections 3.2.2 and 3.2.3 of this CPS.

In addition, all documents required can be sent electronically digitally signed by an existing EU Qualified Certificate for electronic signatures. The validation of electronically signed registration documents is performed automatically using the adobe acrobat application.

# 3.3.1 Identification and Authentication for Routine Re-key

Not applicable

Page 23 of 92 T: +357 22 868500 email: trust-services@jcc.com.cy **Public Use** 

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



# 3.3.2 Identification and Authentication for Re-key After Revocation

Refer to Sections 3.2.2 of this CPS.

# 3.4 Identification and Authentication for Revocation Request

RA authenticates all revocation requests.

Prior to the revocation of a Certificate, RA verifies that the revocation has been requested by the Certificate's Subscriber.

Acceptable procedures for authenticating the revocation requests of a Subscriber include one or more of the following:

- Request by the Subscriber himself by using his electronic identity for authentication
- Communication with the Subscriber providing reasonable assurances, that the natural person requesting revocation is, in fact the Subscriber. Such communication shall be face to face and may include additional validation by phone.

JCC Payment Systems RA Administrators are entitled to request the revocation of Certificates. JCC Payment Systems authenticates the identity of Administrators via access control using SSL and client authentication before permitting them to perform revocation functions.

# 3.5 Identification and Authentication for Suspension Request

RA authenticates all suspension requests.

Prior to the suspension of a Certificate, RA verifies that the suspension has been requested by the Certificate's Subscriber.

Acceptable procedures for authenticating the suspension requests of a Subscriber include one or more of the following:

- Request by the Subscriber himself by login to JCC Trust Portal (https://trust.jcc.com.cy/) and suspend his eID using JCC Authenticator 2FA
- Communication with the Subscriber providing reasonable assurances, that the natural person requesting suspension is, in fact the Subscriber. Such communication shall be either face to face or by phone.

JCC Payment Systems RA Administrators are entitled to request the suspension of Certificates. JCC Payment Systems authenticates the identity of Administrators via access control using SSL and client authentication before permitting them to perform suspension functions.

Stadiou 1, 2571 Nicosia Page **24** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



# 3.6 Identification and Authentication for Unsuspension Request

RA authenticates all unsuspension requests.

Prior to the unsuspension of a Certificate, RA verifies that the unsuspension has been requested by the Certificate's Subscriber.

Acceptable procedure for authenticating the unsuspension requests of a Subscriber is only the below:

 Communication with the Subscriber providing reasonable assurances, that the natural person requesting unsuspension is, in fact the Subscriber. Such communication shall be face to face in one of the Provider's service centers.

JCC Payment Systems RA Administrators are entitled to request the unsuspension of Certificates. JCC Payment Systems authenticates the identity of Administrators via access control using SSL and client authentication before permitting them to perform unsuspension functions.

#### 4. CERTIFICATE LIFE-CYCLE OPERATIONAL

# 4.1 Certificate Application

# 4.1.1 Who Can Submit a Certificate Application?

Application for Electronic Identity may be submitted by a natural person, who is the Subscriber of the Certificate. Applicants are responsible for any data that they supply to JCC Payment Systems.

#### 4.1.2 Enrollment Process and Responsibilities

All Certificate Subscribers shall manifest assent to the relevant General Terms and Conditions that contain representations and warranties described in Section 9.6.3 and undergo an enrollment process consisting of:

- Accept the Terms and Conditions regarding the use of the certificate
- Completing and signing a Certificate Application and Agreement form by providing true and correct information in accordance with the requirements of this policy
- Provide relevant validation documents
- Generating a key pair,
- Receiving his, her, or its certificate, directly,
- Demonstrating possession and/or exclusive control of the private key corresponding to the public key.
- Paying any applicable fees if required.

Stadiou 1, 2571 Nicosia Page **25** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



# 4.2 Certificate Application Processing

## 4.2.1 Performing Identification and Authentication Functions

JCC Payment Systems performs identification and authentication of all required Subscriber information in terms of Section 3.2.

JCC Payment Systems performs identification and authentication of all required Subscriber information either a) by physical presence, or b) by using a method equivalent to physical presence in accordance with Section 3.2.

If an LRA/RA assists in the verification, the LRA/RA must create and maintain records sufficient to establish that it has performed its required verification tasks and communicate the completion of such performance to JCC Payment Systems. After verification is complete, JCC Payment Systems evaluates the information and decides whether or not to issue the Certificate. As part of this evaluation, JCC Payment Systems RA may check the Certificate against an internal database of previously revoked Certificates and rejected certificate requests to identify suspicious certificate requests.

# 4.2.2 Approval or Rejection of eID Applications

JCC Payment Systems approves an application for an eID certificate only if the following criteria are met:

 Successful identification and authentication of all required Subscriber information in terms of Section 3.2

JCC Payment Systems rejects a certificate application if:

- Identification and authentication of all required Subscriber information in terms of Section 3.2 cannot be completed, or
- The Subscriber fails to furnish supporting documentation upon request, or
- The Subscriber fails to respond to notices within a specified time, or

JCC Payment Systems believes that issuing a certificate to the Subscriber may bring JCC Payment Systems into disrepute.

In case JCC Payment Systems rejects a certificate application, the relevant Subscriber account can not be created and no other actions are needed from Subscriber.

The approval/rejection process of an eID application may take up to five (5) business days.

#### 4.2.3 Time to Process eID Applications

JCC Payment Systems begins processing certificate applications within 3 business days of receipt. There is no time stipulation to complete the processing of an application unless otherwise indicated in the relevant General Terms and Conditions, CPS or other agreement. A certificate application remains active until rejected.

Stadiou 1, 2571 Nicosia Page **26** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



### 4.3 Certificate Issuance

## 4.3.1 CA Actions during Certificate Issuance

A Certificate is created and issued following the approval of a Certificate Application by JCC Payment Systems. JCC Payment Systems creates and issues to a Certificate Subscriber a Certificate based on the information in a Certificate Application, following the approval of such Certificate Application.

## 4.3.2 Notifications to Subscriber by the CA of Issuance of Certificate

JCC Payment Systems notifies Subscribers that the Certificates have been created, and provides Subscribers with access to the Certificates by notifying them that their Certificates are available. Certificates are made available to Subscribers, by informing them via an e-mail and SMS message.

# 4.4 Certificate Acceptance

# 4.4.1 Conduct Constituting Certificate Acceptance

The following conduct constitutes certificate acceptance:

- Downloading a Certificate constitutes the Subscriber's acceptance of the Certificate
- Failure of the Subscriber to object to the Certificate or its content within 24 hours from downloading it, constitutes Certificate acceptance.

## 4.4.2 Publication of the Certificate by the CA

JCC Payment Systems does not publish the Certificates it issues in a publicly accessible repository.

#### 4.4.3 Notification of Certificate Issuance by the CA to Other Entities

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

# 4.5 Key Pair and Certificate Usage

# 4.5.1 Subscriber Private Key and Certificate Usage

Use of the private key corresponding to the public key in the Certificate is only permitted once the Subscriber has agreed to the General Terms and Conditions, accepted the Certificate. The Certificate shall be used lawfully in accordance with JCC Payment Systems General Terms and Conditions and this CPS. Certificate use must be consistent with the KeyUsage field extensions included in the Certificate. Certificate key usage is of type B as specified in clause 4.3.2 of ETSI EN 319 412-2.

Stadiou 1, 2571 Nicosia Page **27** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



Subscribers shall maintain their private keys under their sole control, protect their private keys from unauthorized use and shall discontinue use of the private key following expiration or revocation of the certificate. Parties other than the Subscriber shall not archive the Subscriber Private Key.

# 4.5.2 Relying Party Public Key and Certificate Usage

Relying parties shall assent to JCC Payment Systems General Terms and Conditions as a condition of relying on the Certificate.

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

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

- The appropriateness of the use of a Certificate for any given purpose and determine that the Certificate will, in fact, be used for an appropriate purpose that is not prohibited or otherwise restricted by this CPS. JCC Payment Systems is not responsible for assessing the appropriateness of the use of a Certificate.
- That the certificate is being used in accordance with the Key Usage field extensions included in the certificate.
- The status of the certificate and all the CAs in the chain that issued the certificate. If
  any of the Certificates in the Certificate Chain have been revoked, the Relying Party
  is solely responsible to investigate whether reliance on a digital signature performed
  by an end-user Subscriber Certificate prior to revocation of a Certificate in the
  Certificate chain is reasonable. Any such reliance is made solely at the risk of the
  Relying party.

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

# 4.6 Certificate Renewal

Not applicable.

# 4.7 Certificate Re-Key

Certificate rekey is the application for the issuance of a new certificate that certifies a new public key.

Stadiou 1, 2571 Nicosia Page **28** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



# 4.7.1 Circumstances for Certificate Re-Key

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

# 4.7.2 Who May Request Certification of a New Public Key

Only the Subscriber may request Certificate re-keying.

# 4.7.3 Processing Certificate Re-Keying Requests

Re-keying procedures ensure that the Subscriber seeking to re-key a Subscriber Certificate is in fact the Subscriber (or authorized by the Subscriber) of the Certificate.

The Subscriber submits a re-keying application to JCC Payment Systems' RA or to an LRA's authorized employee and JCC Payment Systems' RA or the LRA's authorized employee, reconfirms the identity of the Subscriber in accordance with the identification and authentication requirements, as described in Section 3.3.1.

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

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

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

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

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

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

JCC Payment Systems does not publish the Re-Keyed Certificates it issues in a publicly accessible repository.

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

RAs and LRAs may receive notification of the issuance of Certificates they approve.

Stadiou 1, 2571 Nicosia Page **29** of **92** 

Electronic Identity (eID) Date: 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



# 4.8 Certificate Modification

#### 4.8.1 Circumstances for Certificate Modification

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

It is not possible to modify a certificate, the certificate shall be revoked and a new corrected one issued.

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

# 4.8.2 Who May Request Certificate Modification

See Section 4.1.1.

# 4.8.3 Processing Certificate Modification Requests

JCC Payment Systems performs identification and authentication of all required Subscriber information in terms of Section 3.2.

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

See Section 4.3.2.

# 4.8.5 Conduct Constituting Acceptance of Modified Certificate

See Section 4.4.1.

# 4.8.6 Publication of the Modified Certificate by the CA

See Section 4.4.2.

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

See Section 4.4.3.

# 4.9 Certificate Revocation and Suspension

Revocation of a Certificate permanently ends the operational period of the Certificate prior to the Certificate reaching the end of its stated validity period. Prior to revoking a Certificate, all revocation requests are authenticated as per Section 3.4.

Revocation of certificates is performed according to the following sections.

Stadiou 1, 2571 Nicosia Page 30 of 92 T: +357 22 868500 email: trust-services@jcc.com.cy **Public Use** 

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



#### 4.9.1 Circumstances for Revocation

The JCC Payment Systems General Terms and Conditions provide the obligation and/or right of the Subscriber to request revocation of a Certificate. Only in the circumstances listed below, will a Subscriber Certificate be revoked by JCC Payment Systems (or by the Subscriber) and published on a CRL.

#### A Subscriber Certificate is revoked if:

- JCC Payment Systems or a Subscriber has reason to believe or strongly suspects that
  there has been a Compromise of a Subscriber's private key. In case a compromise is
  reported by a third party JCC Payment Systems requires respective confirmation from
  the Subscriber;
- JCC Payment Systems has reason to believe that the Subscriber has breached a material obligation, representation, or warranty under the applicable General Terms and Conditions for Use of Certificates;
- JCC Payment Systems has reason to believe that the Certificate was issued in a manner not materially in accordance with the procedures required by this CPS, was issued to a person other than the one named as the Subject of the Certificate;
- JCC Payment Systems is aware of changes which impact the validity of the certificate;
- the used cryptography is no longer ensuring the binding between the Subject and the public key;
- JCC Payment Systems has reason to believe that a material fact in the Certificate Application is false;
- JCC Payment Systems determines that a material prerequisite to Certificate issuance was neither satisfied nor waived;
- Subscriber loses the legal eligibility, is declared in absence or death, is dissolved or declared bankrupted, taking into consideration that each certificate is nontransferable in any case;
- Subscriber loses ability to use mobile device required to access a remote QSCD;
- A final court judgment or government authority requires the relevant revocation or cancellation;
- The private key of the CAs has been compromised;
- The Supervisory Body requests the revocation according to the law;
- The Subscriber identity has not been successfully re-verified;
- The Subscriber has not submitted payment, when due;
- The continued use of that certificate is harmful to JCC Payment Systems.

When considering whether Certificate usage is harmful to JCC Payment Systems, JCC Payment Systems considers, among other things, the following:

- The nature and number of complaints received
- The identity of the complainant(s)
- Relevant legislation in force
- Responses to the alleged harmful use from the Subscriber.

Stadiou 1, 2571 Nicosia Page **31** of **92**T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) Date: 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



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

JCC Payment Systems General Terms and Conditions for Use of Certificates require Subscribers to immediately notify JCC Payment Systems of a known or suspected compromise of its private key.

After the approval of a revocation request by the CA, the revoked certificate cannot be reentered into force.

A CA Certificate is revoked if, among others:

- The private key of the CA has been compromised
- A final court judgment requires the relevant revocation or cancellation
- The Supervisory Body requests the revocation according to the law.

### 4.9.2 Who Can Request Revocation

Request for revocation of a Certificate may be submitted by:

- a natural person, who is the Subscriber of the Certificate
- a competent court
- Government Authority
- the Supervisor Body
- RA or LRA
- CA

# 4.9.3 Procedure for Revocation Request

# 4.9.3.1 Procedure for Requesting the revocation of a CA

In case of CA's certificate revocation request, the QTSP Manager must be informed and escalate the request to JCC's CEO for approval. Upon approval, the QTSP Manager will

Stadiou 1, 2571 Nicosia Page 32 of 92 T: +357 22 868500 email: trust-services@jcc.com.cy **Public Use** 

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



request the CA Certificate revocation from ADACOM and the following procedures will be performed by ADACOM SA:

- The Certificate's revoked status is communicated to Relying Parties through the JCC Payment Systems repository in accordance with Section 4.9.9,
- Commercially reasonable efforts will be made to provide additional notice of the revocation to all affected Participants, and
- The CA will generate a new key pair in accordance with Section 5.6, except where the CA is being terminated in accordance with Section 5.8.

In case that the private key of the CA has been compromised, JCC Payment Systems follows the plan of actions as described within Incident Management policy.

# 4.9.3.2. Procedure for Requesting the Revocation of a Subscriber Certificate

In case a Subscriber does not perform revocation himself in accordance with Section 3.4, he can request revocation by sending an e-mail at <a href="revocation@jcc.com.cy">revocation@jcc.com.cy</a> or by communicating by telephone at (+357) 22 868 500 to JCC Payment Systems. JCC Payment Systems will promptly initiate revocation of the certificate.

Communication of such revocation request shall be in accordance with Section 3.4.

## 4.9.4 Revocation Request Grace Period

Revocation requests shall be submitted as promptly as possible within a commercially reasonable time.

# 4.9.5 Time within Which CA Must Process the Revocation Request

JCC Payment Systems takes commercially reasonable steps to process revocation requests without delay and in any case the maximum delay from the time JCC Payment Systems receives a revocation request in accordance with Section 4.9.3.1 and the decision to change its status information being available to all relying parties shall be at most 24 hours. If though the revocation request cannot be confirmed within 24 hours, then the status need not be changed.

Right after the approval of a revocation request, the CA informs, where possible, the Subscriber/Subject of the certificate for the revocation via e-mail and SMS for this event.

#### 4.9.6 Revocation Checking Requirements for Relying Parties

Relying Parties shall check the status of Certificates on which they wish to rely. One method by which Relying Parties may check Certificate status is by consulting the most recent CRL from the CA that issued the Certificate on which the Relying Party wishes to rely. Alternatively, Relying Parties may meet this requirement by checking Certificate status using the JCC Payment Systems web-based repository or by using OCSP. CAs shall provide Relying Parties

Stadiou 1, 2571 Nicosia Page **33** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



with information on how to find the appropriate CRL, web-based repository or OCSP responder to check for revocation status.

Due to the numerous and varying locations for CRL repositories, relying parties are advised to access CRLs using the URL(s) embedded in a certificate's CRL Distribution Points extension. The proper OCSP responder for a given certificate is placed in its Authority Information Access extension.

Revocation status information shall be made available beyond the validity period of the certificate.

# 4.9.7 CRL Issuance Frequency

CRLs for Subscriber Certificates are issued at least once per day. CRLs for CA Certificates are issued at least annually, but also whenever a CA Certificate is revoked.

### 4.9.8 Maximum Latency for CRLs

CRLs are posted to the repository within a commercially reasonable time after generation. This is generally done automatically within minutes of generation.

### 4.9.9 On-Line Revocation/Status Checking Availability

Online revocation and other Certificate status information are available via a web-based repository and OCSP. In addition to publishing CRLs, JCC Payment Systems provides Certificate status information through query functions in the JCC Payment Systems repository.

Certificate status information is available at the JCC Payment Systems repository at: https://pki.jcc.com.cy/repository

The maximum delay between the confirmation of the revocation of a certificate to become effective and the actual change of the status information of this certificate being made available to relying parties is at most 60 minutes. If though the revocation request requires revocation in advance (e.g. Subject's planned cessation from his/her duties at a certain date), then the scheduled date may be considered as the confirmation time.

## 4.9.10 On-Line Revocation Checking Requirements

A relying party must check the status of a certificate on which he/she/it wishes to rely. If a Relying Party does not check the status of a Certificate on which the Relying Party wishes to rely by consulting the most recent relevant CRL, the Relying Party shall check Certificate status by consulting the JCC Payment Systems repository or by requesting Certificate status using the applicable OCSP responder.

#### 4.9.11 Other Forms of Revocation Advertisements Available

Not applicable.

Stadiou 1, 2571 Nicosia Page **34** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



## 4.9.12 Special Requirements regarding Key Compromise

JCC Payment Systems uses commercially reasonable efforts to notify potential Relying Parties if it discovers, or have reason to believe, that there has been a Compromise of the private key of one of its own CAs.

# 4.9.13 Circumstances for Suspension

The JCC Payment Systems General Terms and Conditions provide the obligation and/or right of the Subscriber to request suspension of his eID Certificates account. Only in the circumstances listed below, will a Subscriber Certificate be suspended by JCC Payment Systems (or by the Subscriber).

A Subscriber Certificate is Suspended if:

- JCC Payment Systems or a Subscriber has reason to believe or strongly suspects that
  there has been a Compromise of a Subscriber's private key. In case a compromise is
  reported by a third party JCC Payment Systems requires respective confirmation from
  the Subscriber;
- JCC Payment Systems has reason to believe that the Subscriber has breached a material obligation, representation, or warranty under the applicable General Terms and Conditions for Use of Certificates;
- Subscriber loses ability to use the mobile device required to access a remote QSCD;
- A final court judgment or government authority requires the relevant suspension;
- The Government requests the suspension according to the law;
- Responses to the alleged harmful use from the Subscriber.

JCC Payment Systems General Terms and Conditions for Use of Certificates require Subscribers to immediately notify JCC Payment Systems of a known or suspected lost of his eID credentials.

After the suspension of an eID Certificates account, the suspended account can only unsuspended by the Subscriber depending on the circumstance under which the suspension was made and by who.

#### 4.9.14 Who Can Request Suspension

Request for suspension of eID Certificates account may be submitted by:

- a natural person, who is the Subscriber of the eID
- a competent court
- Government Authority
- the Supervisor Body
- RA or LRA
- CA

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



# 4.9.15 Procedure for Suspension Request

## 4.9.15.1. Procedure for Requesting the Suspension of eID certificates account

In case a Subscriber does not perform suspension himself in accordance through JCC Trust Portal, he can request suspension by communicating by telephone at (+357) 22 868 500 to JCC Payment Systems or by visiting one of the Service Provider service areas and signing a suspension request form. JCC Payment Systems will promptly initiate suspension of the eID certificates account.

User can request the unsuspension of his eID certificates account by visiting one of the Service Provider service areas and signing an unsuspension request form.

In case Subscriber wants to unsuspend his certificate for the second or third time, Subscriber is obligated to pay a fee.

### 4.9.16 Limits on Suspension Period

In case the suspension of eID certificates account has been requested by the Subscriber, then the limit of suspension period is 30 days. After the 30 days, JCC Payment Systems will proceed to the revocation of the Subsriber's eID certificates.

Subscriber has the right to suspend/unsuspend his eID certificates account up to 3 times. After three times of suspension of his eID, Subscriber will only have the option to revoke his eID certificates.

#### 4.10 Certificate Status Services

# 4.10.1 Operational Characteristics

Certificate status information is available via CRL and OCSP responder. The serial number of a revoked Certificate remains on the CRL until one additional CRL is published after the end of the Certificate's validity period. OCSP information for subscriber Certificates is updated as per section

#### 4.10.2 Service Availability

JCC Payment Systems shall ensure that its Certificate Status Services are available 24 hours a day, 7 days a week with a minimum of 99% availability overall per year with a scheduled downtime that does not exceed 0,5% annually.

## 4.10.3 Optional Features

Not applicable.

Stadiou 1, 2571 Nicosia Page **36** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



# 4.11 End of Subscription

A Subscriber may end a subscription for a JCC Payment Systems Certificate by:

- Allowing the Certificate to expire without re-keying that Certificate,
- Revoking the Certificate before expiration without replacing it

# **4.12** Key Escrow and Recovery

Not applicable.

## 4.12.1 Key Escrow and Recovery Policy and Practices

Not applicable.

## 4.12.2 Session Key Encapsulation and Recovery Policy and Practices

Not applicable.

Stadiou 1, 2571 Nicosia Page **37** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



## 5. FACILITY, MANAGEMENT AND OPERATIONAL CONTROLS

## **5.1** Physical Controls

JCC Payment Systems has implemented the JCC Payment Systems Physical and Environmental Security Policy, which supports the security requirements of this CPS. Compliance with these policies is included in JCC Payment Systems audit requirements described in section 8. JCC Payment Systems Physical and Environmental Security Policy contains sensitive security information and is only available upon agreement with JCC Payment Systems. An overview of the requirements is described below.

JCC Payment Systems outsources CA operation to ADACOM SA

who is a QTSP registered in Greece and listed in EU Trusted List. All facility, management and operations controls related to JCC Payment Systems CA and described below are provided by ADACOM SA.

#### 5.1.1 Site Location and Construction

JCC Payment Systems QTSP operations are conducted within a physically protected environment that deters, prevents, and detects unauthorized use of, access to, or disclosure of sensitive information and systems whether covert or overt.

JCC Payment Systems also maintains Disaster Recovery facility for its QTSP operations. JCC Payment Systems Disaster Recovery facility is protected by multiple tiers of physical security comparable to those of JCC Payment Systems primary facility.

#### 5.1.2 Physical Access

JCC Payment Systems CA systems are protected by seven (7) tiers of physical security, with access to the lower tier required before gaining access to the higher tier.

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

The physical security system includes tiers for CA key management security which serves to protect both online and offline storage of CA Cryptographic Signing Unit (CSUs) and keying material. Areas used to create and store cryptographic material enforce dual control, each through the concurrent use of proximity cards and biometrics. Online CSUs are protected

Stadiou 1, 2571 Nicosia Page **38** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



through the use of locked cabinets. Offline CSUs are protected through the use of locked safes, cabinets and containers. Access to CSUs and keying material is restricted in accordance with ADACOM's segregation of duties requirements. The opening and closing of cabinets or containers in these tiers is logged for audit purposes.

JCC Payment Systems RA dedicated workspace is protected using physical access controls making them accessible only to appropriately authorized individuals. Access to the RA area requires the use of an access card and PIN. Usage of the access cards is logged by an access control system.

Access cards log review as well as CCTV footage is monitored real time by the 24x7 guard as well as periodic reviews performed by the Fraud & Safety department. In addition, RA workspace is protected by PIR and alarm locking of the area. JCC Payment Systems securely stores all paper containing sensitive plain-text information related to its RA operations in a secure space.

JCC Payment Systems securely stores the Cryptographic Signing Units (CSU) used to generate and store the Subscribers Private Keys for remote signature and authentication. The room used for key storage and key generation activities is classified as a high security area with multiple tiers of security and a number of security features in place.

## 5.1.3 Power and Air Conditioning

All secure facilities are equipped with primary and backup:

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

## 5.1.4 Water Exposures

All secure facilities are equipped with monitoring systems to detect excess moisture and to minimize the impact of water exposure

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

All secure facilities are equipped with fire suppression mechanisms to prevent and extinguish fires or other damaging exposure to flame or smoke.

#### 5.1.6 Media Storage

All media containing production software and data, audit, archive, or backup information related to JCC Payment Systems QTSP operations is stored in a secure off-site/alternate storage facility with appropriate physical and logical access controls designed to limit access to authorized personnel and protect such media from accidental damage (e.g., water, fire).

Stadiou 1, 2571 Nicosia Page **39** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



## 5.1.7 Waste Disposal

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

## 5.1.8 Off-Site Backup

JCC Payment Systems performs routine backups of critical system data, audit log data, and other sensitive information. Offsite backup media are stored in a physically secure manner using the JCC Payment Systems Disaster Recovery facility

Off-site backup copies of CA Private Keys and activation data are stored for disaster recovery purposes in a physically secure manner using the ADACOM Disaster Recovery facility.

## 5.1.9 External RA Systems

All physical control requirements under Section 5.1 apply equally to any external RA system.

#### **5.2** Procedural Controls

#### 5.2.1 Trusted Roles

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

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

Trusted Persons include, but are not limited to:

- RA and LRA personnel,
- Key Management personnel,
- Security personnel,
- System administration personnel, and
- Executives that are designated to manage infrastructural trustworthiness.

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

Stadiou 1, 2571 Nicosia Page **40** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



in this CPS. The functions and duties performed by persons in trusted roles are distributed so that one person alone cannot circumvent security measures or subvert the security and trustworthiness of the PKI operations.

## 5.2.2 Number of Persons Required per Task

JCC Payment Systems has established, maintains, and enforces rigorous control procedures to ensure the segregation of duties based on job responsibility and to ensure that multiple Trusted Persons are required to perform sensitive tasks.

Policy and control procedures are in place to ensure segregation of duties based on job responsibilities. The most sensitive tasks, such as access to and management of cryptographic hardware (cryptographic signing unit or CSU) and associated key material, require multiple Trusted Persons.

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

#### 5.2.3 Identification and Authentication for Each Role

For all personnel seeking to become Trusted Persons, verification of identity is performed through an HR process based on check of well-recognized forms of identification (e.g., passports or identification cards). Identity is further confirmed through the background checking procedures in Section 5.3.2.

JCC Payment Systems ensures that personnel have achieved Trusted Status and departmental approval has been given before such personnel are:

- Issued access devices and granted access to the required facilities;
- Issued electronic credentials to access and perform specific functions on JCC Payment Systems QTSP Systems or other IT systems.

JCC Payment Systems has implemented an access control system, which identifies authorities and registers all the JCC Payment Systems information system users in a trustworthy manner.

User accounts are created for personnel in specific roles that need access to the system in question. All users must log in with dedicated account, and administrative commands are only available with explicit permission and auditing of the execution. File system permissions and other features available in the operating system security model are used to prevent any other use.

Stadiou 1, 2571 Nicosia Page **41** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



User accounts are locked as soon as possible when the role change dictates. Access rules are audited annually.

## 5.2.4 Roles Requiring Separation of Duties

Roles requiring Separation of duties include, but are not limited to:

- The validation and handling of information in Certificate Applications;
- The acceptance, rejection, or other processing of Certificate Applications, revocation requests, or re-keying requests, or enrollment information;
- The generation, issuing or destruction of a CA certificate;
- The access to the Remote QSCD

To accomplish this separation of duties, JCC Payment Systems designates individuals to the trusted roles, restricting an employee from assuming multiple roles, and thus preventing an employee from having more than one identity.

#### **5.3** Personnel Controls

Personnel seeking to become Trusted Persons must present proof of the requisite background, qualifications, and experience needed to perform their prospective job responsibilities competently and satisfactorily, as well as proof of any government clearances, if any, necessary to perform certification services under government contracts. Background checks are repeated at least every 5 years for personnel holding Trusted Positions.

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

JCC Payment Systems requires that personnel seeking to become Trusted Persons present proof of the requisite background, qualifications, and experience needed to perform their prospective job responsibilities, as specified in the employment contract, job description and Roles and Responsibilities documents, competently and satisfactorily as well as proof of any government clearances, if any, necessary to perform certification services under government contracts, before they perform any operational or security functions.

The employment contracts signed by the employees of JCC Payment Systems provide for the following obligations:

- To maintain the secrecy of confidential information that has come to their knowledge in the course of their performance,
- To prevent them from holding business interests in a company, which may affect their judgment in the supply of the service and - to ensure that they have not been punished for a willful crime.
- All personnel in Trusted Roles are free from any interests that may affect their impartiality regarding JCC Payment Systems operations.

Stadiou 1, 2571 Nicosia Page **42** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) Date: 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



## 5.3.2 Background Check Procedures

Prior to commencement of employment in a Trusted Role, JCC Payment Systems conducts background checks which include the following:

- Verification of identity
- Check of previous employment and professional reference (if available);
- Confirmation of the highest or most relevant educational degree obtained;
- Attestation that employees satisfy the knowledge, skills, reliability and experience

To the extent that any of the requirements imposed by this section cannot be met due to a prohibition or limitation in local law or other circumstances, JCC Payment Systems will utilize a substitute investigative technique permitted by law that provides substantially similar information.

The factors revealed in a background check that may be considered grounds for rejecting candidates for Trusted Positions or for taking action against an existing Trusted Person generally include (but are not limited to) the following:

- Misrepresentations made by the candidate or Trusted Person,
- Highly unfavorable or unreliable professional references, and
- Certain criminal convictions

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

The use of information revealed in a background check to take such actions is subject to the applicable laws.

#### **5.3.3** Training Requirements

JCC Payment Systems provides its personnel involved with PKI operations with training upon hire as well as the requisite on-the-job training needed for them to perform their job responsibilities competently and satisfactorily. JCC Payment Systems maintains records of such training. JCC Payment Systems periodically reviews and enhances its training programs as necessary.

JCC Payment Systems training programs are tailored to the individual's responsibilities and include the following as relevant:

- Basic PKI concepts,
- Job responsibilities,
- Security and operational policies and procedures,
- Use and operation of deployed hardware and software,

Stadiou 1, 2571 Nicosia Page 43 of 92 T: +357 22 868500 email: trust-services@jcc.com.cy **Public Use** 

Electronic Identity (eID) Date: 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



- Incident and Compromise reporting and handling, and
- Disaster recovery and business continuity procedures.

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

JCC Payment Systems provides refresher training and updates to their personnel to the extent and frequency required to ensure that such personnel maintain the required level of proficiency to perform their job responsibilities competently and satisfactorily.

JCC Payment Systems re-trains yearly RA and LRA's authorized employees.

## 5.3.5 Job Rotation Frequency and Sequence

No rotation used.

#### 5.3.6 Sanctions for Unauthorized Actions

Appropriate disciplinary actions are taken for employees and agents failing to comply with this CPS, unauthorized actions or other violations of JCC Payment Systems policies and procedures. Disciplinary actions may include measures up to and including termination and are commensurate with the frequency and severity of the unauthorized actions.

#### **5.3.7** Independent Contractor Requirements

In limited circumstances, independent contractors or consultants may be used to fill Trusted Positions. Any such contractor or consultant is held to the same functional and security criteria that apply to JCC Payment Systems employees in a comparable position.

Independent contractors and consultants who have not completed or passed the background check procedures specified in Section 5.3.2 are permitted access to JCC Payment Systems secure facilities only to the extent they are escorted and directly supervised by Trusted Persons at all times.

## 5.3.8 Documentation Supplied to Personnel

JCC Payment Systems provides its employees the requisite training and other documentation needed to perform their job responsibilities competently and satisfactorily, including a copy of this CPS and other technical and operational documentation needed to maintain the integrity of JCC Payment Systems' CA operations. Employees are also given access to information on internal systems and security documentation, identity verification procedures and other relevant information.

Page **44** of **92** Stadiou 1, 2571 Nicosia T: +357 22 868500 email: trust-services@jcc.com.cy **Public Use** 

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



# 5.4 Audit Logging Procedures

#### 5.4.1 Types of Events Recorded

JCC Payment Systems ensures that all relevant information concerning the operation of JCC Payment Systems Trust Services is recorded for providing evidence for the purpose of legal proceedings. This information includes the archive records that are required for proving the validity of the Trust Service operation.

The following significant events are manually or automatically recorded:

- CA certificate and key life cycle management events, including:
  - Key generation, backup, storage, recovery, archival, and destruction
  - Changes to CA details or keys
  - Cryptographic device life cycle management events.
- Subscriber certificate and key life cycle management events, including:
  - Key generation, backup, storage, recovery, archival, and destruction
  - Certificate Applications, issuance, re-key, and revocation
  - Successful or unsuccessful processing of requests
  - Changes to certificate creation policies
  - Generation and issuance of Certificates and CRLs.
- Trusted Employee Events, including:
  - Logon and logoff attempts
  - Attempts to create, remove, set passwords or change the system privileges of any privileged users
  - Personnel changes.
- Security-related events including:
  - Successful and unsuccessful PKI system access attempts
  - Start-up and shutdown of systems and applications
  - Possession of activation data for CA private key operations
  - System configuration changes and maintenance
  - PKI and security system actions performed
  - Security sensitive files or records read, written or deleted
  - Security policy settings changes
  - System crashes, hardware failures and other anomalies
  - Firewall and router activity
  - Remote QSCD facility access entry/exit.

Log entries include the following elements:

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

Stadiou 1, 2571 Nicosia Page **45** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) Date: 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



JCC Payment Systems RA and LRA log Certificate Application information including:

- Kind of identification document(s) presented by the Certificate Applicant
- Record of unique identification data, numbers, or a combination thereof (e.g., Certificate Applicant's identification card number) of identification documents, if applicable. Storage location of copies of applications and identification documents for Certificates
- Any specific choices in the Certificate Application
- Identity of entity accepting the application and in case of EU Qualified e-Seals identity of the natural person representing the legal person to whom the EU Qualified Certificate for the electronic seal is provided
- Method used to validate identification documents, if any
- Name of receiving CA or submitting RA and LRA, if applicable.

## 5.4.2 Frequency of Processing Log

The QTSP systems are continuously monitored to provide real time alerts of significant security and operational events for review by designated system security personnel. Monthly reviews of the audit logs include verifying that the logs have not been tampered with and thoroughly investigating any alerts or irregularities detected in the logs. Actions taken based on audit log reviews are also documented.

#### 5.4.3 Retention Period for Audit Log

Audit logs shall be retained for at least two (2) months after processing and thereafter archived in accordance with Section 5.5.

Physical or digital archive records about certificate applications, registration information and requests or applications for revocation are retained for at least seven (7) years after any certificate based on these records ceases to be valid.

In case of JCC Payment Systems CA termination, audit logs and archive records are retained and accessible until abovementioned term for retention in accordance with Section 5.8.

## 5.4.4 Protection of Audit Log

Audit logs are protected with an electronic audit log system that includes mechanisms to protect the log files from unauthorized viewing, modification, deletion, or other tampering.

#### 5.4.5 Audit Log Backup Procedures

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

Page 46 of 92 Stadiou 1, 2571 Nicosia T: +357 22 868500 email: trust-services@jcc.com.cy **Public Use** 

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



#### 5.4.6 Audit Collection System (Internal vs. External)

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

#### 5.4.7 Notification to Event-Causing Subject

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

Should the records concerning the operation of services be required for the purposes of providing evidence of the correct operation of the services and for the purpose of legal proceedings, they are made available to legal authorities and/or persons who have a legal right of access.

#### 5.4.8 Vulnerability Assessments

Events in the audit process are logged, in part, to monitor system vulnerabilities. Vulnerability Assessments are performed and reviewed annually in order to identify and assess reasonably foreseeable internal and external threats that could result in unauthorized access, disclosure, misuse, alteration, or destruction of any certificate data or certificate issuance process. JCC Payment Systems also routinely assesses the sufficiency of the policies, procedures, information systems, technology, and other arrangements that it has in place to control such risks. The Vulnerability Assessment and Risk Assessment are an input to JCC Payment Systems' annual conformity assessment audit. Monthly Vulnerability Assessments will be an input into JCC Payment Systems annual audit.

## 5.5 Records Archival

#### 5.5.1 Types of Records Archived

Records been archived:

- All audit data collected in terms of Section 5.4
- Certificate application information
- Documentation supporting certificate applications
- Certificate lifecycle information

#### 5.5.2 Retention Period for Archive

The retention period for archive is described in Section 5.4.3.

Stadiou 1, 2571 Nicosia Page **47** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) Date: 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



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

All archives are protected so that only authorized Trusted Persons are able to obtain access to the archives. The archives are protected against unauthorized viewing, modification, deletion, or other tampering by storage within a trustworthy system. The media holding the archive data and the applications required to process the archive data shall be maintained to ensure that the archive data can be accessed for the time period set forth in this CPS.

## 5.5.4 Archive Backup Procedures

An incremental or differential back up of electronic archives is performed on a daily basis and a full backup is performed on a weekly basis.

## 5.5.5 Requirements for Time-Stamping of Records

Certificates, CRLs, and other revocation database entries contain time and date information. Such time information need not to be cryptographic-based.

## 5.5.6 Archive Collection System (Internal or External)

Archive information is collected internally by ADACOM for CA operations and by JCC Payment Systems for the rest QTSP related operations.

## 5.5.7 Procedures to Obtain and Verify Archive Information

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

Should the records concerning the operation of services be required for the purposes of providing evidence of the correct operation of the services and for the purpose of legal proceedings, they are made available to legal authorities and/or persons who have a legal right of access.

## 5.6 Key Changeover

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

Prior to the expiration of the CA Certificate for a Superior CA, key changeover procedures are enacted to facilitate a smooth transition for entities within the Superior CA's hierarchy from

Page 48 of 92 T: +357 22 868500 email: trust-services@jcc.com.cy **Public Use** 

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



the old Superior CA key pair to new CA key pair(s). JCC Payment Systems CA key changeover process requires that:

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

The Superior CA continues to issue CRLs signed with the original Superior CA private key until the expiration date of the last Certificate issued using the original key pair has been reached.

## 5.7 Compromise and Disaster Recovery

## 5.7.1 Incident and Compromise Handling Procedures

Backups of the QTSP information are kept in off-site storage and made available in the event of a Compromise or disaster: Certificate Application data, audit data, and database records for all Certificates issued. Back-ups of CA private keys are generated and maintained in accordance with Section 6.2.4 of this CPS.

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

In the event of the corruption of computing resources, software, and/or data, internal or from any external third party, such an occurrence is reported to JCC Payment Systems Security and JCC Payment Systems incident handling procedures are enacted. Such procedures require appropriate escalation, incident investigation, and incident response. If necessary, JCC Payment Systems key compromise or disaster recovery procedures will be enacted.

## **5.7.3 Entity Private Key Compromise Procedures**

Upon the suspected or known Compromise of a JCC Payment Systems CA, JCC Payment Systems follows the plan of actions as described within Incident Management policy.

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

- The Certificate's revoked status is communicated to Relying Parties through the JCC Payment Systems repository in accordance with Section 4.9.9,
- Commercially reasonable efforts will be made to provide additional notice of the revocation to all affected Participants, and
- The CA will generate a new key pair in accordance with Section 5.6, except where the CA is being terminated in accordance with Section 5.8.

Stadiou 1, 2571 Nicosia Page **49** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



Paragraph 5.7.3 is also applicable in case of PKI algorithm compromise.

## 5.7.4 Business Continuity Capabilities after a Disaster

JCC Payment Systems maintains a Business Continuity Plan (BCP) in order to establish procedures to recover the JCC Payment Systems critical business functions following a disaster.

The following objectives have been established for this plan:

- Maximize the effectiveness of contingency operations through an established plan that consists of the following phases:
  - Notification/Activation phase to detect and assess damage and activate the plan.
  - Recovery phase to restore temporary IT operations and recover damage done to the original system.
- Identify the activities, resources, and procedures needed to carry out JCC Payment Systems QTSP functions during prolonged interruptions to normal operations.
- Assign responsibilities to designated JCC Payment Systems personnel and provide guidance for recovering JCC Payment Systems procedures during prolonged periods of interruption to normal operations.
- Ensure coordination with other JCC Payment Systems staff who will participate in the contingency planning strategies. Ensure coordination with external points of contact and vendors who will participate in the contingency planning strategies.

JCC Payment Systems has the capability to restore or recover essential operations within twenty-four (24) hours following a disaster with, at a minimum, support for the following functions:

- Certificate revocation,
- Publication of revocation information.

JCC Payment Systems maintains redundant hardware and backups of its CA and infrastructure system software at its Disaster Recovery facility. In addition, CA private keys are backed up and maintained for disaster recovery purposes in accordance with Section 6.2.4.

## 5.8 CA or RA Termination

The CA is terminated:

- with a decision of the JCC Payment Systems Management;
- with a decision of the authority exercising supervision over the supply of the service;
- with a judicial decision;
- Upon the liquidation or termination of the operations of JCC Payment Systems.

JCC Payment Systems ensures that potential disruptions to Subscribers and Relying Parties are minimized as a result of the cessation of JCC Payment Systems services, and in particular,

Stadiou 1, 2571 Nicosia Page **50** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



it ensures the continued maintenance of information required to verify the correctness of Trust Services.

In the event that it is necessary for a JCC Payment Systems CA, to cease operation, JCC Payment Systems makes a commercially reasonable effort to notify Subscribers, Relying Parties, and other affected entities of such termination in advance of the CA termination. Where CA termination is required, JCC Payment Systems will activate the documented "JCC Payment Systems Termination Plan" to minimize disruption to Customers, Subscribers, and Relying Parties. This termination plan may address the following, as applicable:

- Provision of notice to parties affected by the termination, such as Subscribers, Relying Parties, and Customers, informing them of the status of the CA,
- Handling the cost of such notice,
- The revocation of the Certificate issued to the CA by JCC Payment Systems,
- The preservation of the CA's archives and records for the time periods required in this CPS,
- The continuation of Subscriber and customer support services,
- The continuation of revocation services, such as the issuance of CRLs or the maintenance of online status checking services,
- The revocation of unexpired unrevoked Certificates of end-user Subscribers and subordinate CAs, if necessary,
- Refunding (if necessary) Subscribers whose unexpired unrevoked Certificates are revoked under the termination plan or provision, or alternatively, the issuance of replacement Certificates by a successor CA,
- Disposition of the CA's private key, including backup key, and the hardware tokens containing such private key,
- Provisions needed for the transition of the CA's services to a successor CA where possible,
- Provision notice to relevant authorities such as supervisory bodies,
- Transfer of obligations to a reliable party for maintaining all information necessary to provide evidence of the Trust Services operation for a reasonable period, unless it can be demonstrated that JCC Payment Systems does not hold such information,
- The submission of the JCC Payment Systems CA's archives and records to another contracting Certification Service Provider for Certificates, for the time periods required by the law.

Upon termination of CA's operations, or termination of RA's services, for any reason, any contracts assigning part of the TSP responsibilities to third parties shall expire automatically. To this end, third parties shall secure the transfer of the records and documents related to the assigned responsibilities, according to applicable law.

Stadiou 1, 2571 Nicosia Page **51** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



## 6. TECHNICAL SECURITY CONTROLS

# 6.1 Key Pair Generation and Installation

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

For the JCC Payment Systems CAs, the generation of keys, their storage and subsequent use, is performed by ADACOM S.A., using cryptographic modules that meet the requirements of FIPS 140-2 level 3. CA key pair generation is performed by multiple pre-selected, trained and trusted individuals using trustworthy systems and processes that provide for the security and required cryptographic strength for the generated keys.

All CA key pairs are generated in pre-planned Key Generation Ceremonies in accordance with the requirements of the Key Ceremony Reference Guide, the CA Key Management Tool User's Guide. The activities performed in each CA key generation ceremony are recorded, dated and signed by all individuals involved. These records are kept for audit and tracking purposes for a length of time deemed appropriate by ADACOM S.A. and JCC Payment Systems.

Generation of end-user Subject key pairs is generally performed by the Subject. The Subject uses a QSCD certified cryptographic module compliant with eIDAS Regulation requirements.

For Certificates on a remote QSCD, the generation of keys, their storage and subsequent use, is performed by JCC Payment Systems using exclusively devices certified specifically in accordance with the applicable requirements per Article 30.3 of the eIDAS and, thus included in the list of qualified devices maintained by the European Commission in compliance with Articles 30, 31 and 39 of eIDAS.

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

When Subject key pairs are generated on QSCD by the Subject, private key delivery to the Subject is not applicable.

#### 6.1.3 Public Key Delivery to Certificate Issuer

Subject submit their public key to JCC Payment Systems for certification electronically through the use of a PKCS#10 Certificate Signing Request (CSR) or other digitally signed package in a session secured by Transport Layer Security (TLS).

## 6.1.4 CA Public Key Delivery to Relying Parties

JCC Payment Systems makes the Root and Issuing CA Certificates available to Subscribers and Relying Parties through its repository.

Stadiou 1, 2571 Nicosia Page **52** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



JCC Payment Systems generally provides its own full certificate chain (including the issuing CA and any CAs in the chain) to the Subscriber upon Certificate issuance.

Subscribers, during the certificate pick-up process, automatically download and install into their computer, the intermediate and issuing CA's public keys. In any case if a user needs to verify and/or download the public key of the CA, he can do so by accessing the JCC Payment Systems repository <a href="https://pki.jcc.com.cy/repository">https://pki.jcc.com.cy/repository</a>.

## 6.1.5 Key Sizes

Key pairs shall be of sufficient length to ensure that the private key cannot be determined using cryptanalysis during the expected period of use. Key pairs are generated using secure algorithms and parameters aligned with current research and industry standards, following the recommendations of ETSI TS 119 312 for signing Certificates, CRLs, and certificate status server responses:

## 6.1.6 Public Key Parameters Generation and Quality Checking

The quality of Public Keys is guaranteed by using secure random number generation and on-board generation of Public Keys. Key Pairs are generated using secure algorithms and parameters based on current research and industry standards following the recommendations of ETSI TS 119 312.

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

Refer to Section 7.

# 6.2 Private Key Protection and Cryptographic Module Engineering Controls

JCC Payment Systems has implemented a combination of physical, logical, and procedural controls to ensure the security of JCC Payment Systems private keys. Subscribers are also required to take necessary precautions to prevent the loss, disclosure, modification, or unauthorized use of private keys.

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

For CA key pair generation and CA private key storage, JCC Payment Systems uses hardware cryptographic modules operated and provided by ADACOM SA that are certified at or meet the requirements of FIPS 140-2 Level 3.

Subscriber Private Keys are generated on QSCD compliant to eIDAS Regulation requirements. JCC monitors QSCD certification status at least once a year, until the end of the validity period

Stadiou 1, 2571 Nicosia Page **53** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



of certificates linked to these QSCDs. JCC will take appropriate measures in case of modification of this status.

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

JCC Payment Systems follows the ADACOM SA technical and procedural mechanisms that require the participation of multiple trusted individuals to perform sensitive CA cryptographic operations. These mechanisms use "Secret Sharing" to split the activation data needed to make use of a CA private key into separate parts called "Secret Shares" which are held by trained and trusted individuals called "Shareholders." A threshold number of Secret Shares (m) out of the total number of Secret Shares created and distributed for a particular hardware cryptographic module (n) is required to activate a CA private key stored on the module.

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

No Multi-Person control is applied to Subscriber Private Keys.

#### 6.2.3 Private Key Escrow

JCC Payment Systems CA and Subscribers private keys are not escrowed.

#### 6.2.4 Private Key Backup

Backup copies of CA private keys are performed by ADACOM SA and backup copies of Subscriber private keys generated and stored by a Remote QSCD are performed by JCC Payment Systems, for standard recovery and disaster recovery purposes. Such keys are stored in encrypted form within hardware cryptographic modules and associated key storage devices. Cryptographic modules used for private key storage meet the requirements of this CPS.

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

#### 6.2.5 Private Key Archival

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

Stadiou 1, 2571 Nicosia Page **54** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



The Subscriber Private Keys cannot be extracted or restored from the QSCD and are not archived.

## 6.2.6 Private Key Transfer Into or From a Cryptographic Module

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

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

## 6.2.7 Private Key Storage on Cryptographic Module

Private keys held on hardware cryptographic modules are stored in encrypted form.

#### 6.2.8 Method of Activating Private Key

All JCC Payment Systems Subscribers shall protect the activation data for their private keys against loss, theft, modification, unauthorized disclosure, or unauthorized use.

Activation data generation is described in Section 6.4.1

The Subscriber Private Keys on Remote QSCD are protected by username, password and OTP codes. The following rules apply:

- Subscriber needs to enter the username, password and authorization through mobile application using passcode or biometrics to the QSCD for each transaction.
- In case the Subscriber enters a wrong username, password and authorization through mobile application using passcode or biometrics 5 times in a row, the Remote QSCD account is locked
- Remote QSCD account cannot be password reset
- User can change the password.

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

Stadiou 1, 2571 Nicosia Page **55** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



their activation data in order to activate an offline CA's private key. Once the private key is activated, it shall be active only for one time.

#### 6.2.9 Method of Deactivating Private Key

Power off of the cryptographic module that hosts the JCC Payment Systems CA private keys deactivates the keys

Subscriber private keys will be deactivated after each operation, upon logging off their end point, or upon logging off the Remote QSCD. In all cases, Subscribers have an obligation to adequately protect their private key(s) in accordance with this CPS.

## 6.2.10 Method of Destroying Private Key

Where required, JCC Payment Systems destroys CA and Subscriber private keys in a manner that reasonably ensures that there are no residuals remains of the key that could lead to the reconstruction of the key. JCC Payment Systems utilizes the zeroization function of its hardware cryptographic modules and other appropriate means to ensure the complete destruction of private keys. When performed, key destruction activities are witnessed.

## 6.2.11 Cryptographic Module Rating

See Section 6.2.1.

## 6.3 Other Aspects of Key Pair Management

## 6.3.1 Public Key Archival

JCC Payment Systems Subscriber Certificates are backed up and archived as part of JCC Payment Systems routine backup procedures.

All the Subscriber Public Keys are kept in database of JCC Payment Systems and ADACOM SA and may be archived for at least seven (7) years after expiration of the CA that has issued the certificates.

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

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

Stadiou 1, 2571 Nicosia Page **56** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



Certificate Issued By:	Validity Period
PCA Root CA	Normally up to 30 years
JCC PAYMENT SYSTEMS Issuing CA	Normally up to 8 years
Subscriber Certificates	Normally up to 3 years

In addition, JCC Payment Systems CAs stop issuing new Certificates at an appropriate date (60 days plus maximum validity period of issued Certificates) prior to the expiration of the CA's Certificate such that no Certificate issued by a Subordinate CA expires after the expiration of any Superior CA Certificates. The lifetime of Subscriber's certificates will not exceed the lifetime of the CA's signing certificate.

Subscribers shall cease all use of their key pairs after their usage periods have expired.

If an algorithm or the appropriate key length offers no sufficient security during the validity period of the certificate, the concerned certificate will be revoked and a new certificate application will be initiated. The applicability of cryptographic algorithms and parameters is constantly supervised by the JCC Payment Systems management.

#### 6.4 Activation Data

#### 6.4.1 Activation Data Generation and Installation

Activation data (Secret Shares) used to protect HSM containing JCC Payment Systems CA private keys are generated in accordance with the requirements of Section 6.2.2 and the Key Ceremony Reference Guide. The creation and distribution of Secret Shares is logged.

Activation data used (username, password, authorization request through mobile application and authorization through mobile application using passcode or biometrics) to protect Remote QSCD containing Subject's private keys are generated in accordance with the compliance requirements of the QSCD.

JCC Payment Systems will only transmit activation data via an appropriately protected channel and at a time and place that is distinct from the delivery of the associated cryptographic module.

#### 6.4.2 Activation Data Protection

JCC Payment Systems Key Custodians are required to safeguard Remote QSCD Secret Shares and sign an agreement acknowledging their responsibilities.

The Subscriber shall memorize the activation credentials (PIN, username, password, authorization through mobile application using passcode or biometrics) and not share them with anyone else.

Stadiou 1, 2571 Nicosia Page **57** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



JCC Payment Systems enforces multi-factor authentication for all accounts capable of causing certificate issuance or performing Registration Authority or delegated third party functions, or implement technical controls operated by the CA to restrict certificate issuance through the account to a limited set of pre-approved domains or email addresses.

## 6.4.3 Other Aspects of Activation Data

#### 6.4.3.1 Activation Data Transmission

To the extent activation data for private keys are transmitted, Participants shall protect the transmission using methods that protect against the loss, theft, modification, unauthorized disclosure, or unauthorized use of such private keys.

#### 6.4.3.2 Activation Data Destruction

Activation data for CA private keys are decommissioned using methods that protect against the loss, theft, modification, unauthorized disclosure, or unauthorized use of the private keys protected by such activation data. After the record retention periods in section 5.5.2 lapse, JCC Payment Systems destroys activation data by overwriting and/or physical destruction.

## **6.5 Computer Security Controls**

JCC Payment Systems performs all QTSP functions using trustworthy systems that meet the requirements of ADACOM ISMS and JCC Payment Systems ISMS.

## 6.5.1 Specific Computer Security Technical Requirements

JCC Payment Systems ensures that the systems maintaining QTSP Services and data files are trustworthy systems secure from unauthorized access. In addition, JCC Payment Systems limits access to production servers to those individuals with a valid business reason for such access. General application users do not have accounts on production servers.

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

All critical software components are installed and updated from trusted sources only. There are also internal procedures to protect the integrity of certification service components against viruses, malicious and unauthorized software.

JCC Payment Systems personnel are authenticated before using critical applications related to the services. User accounts are created for personnel in specific roles that need access to

Stadiou 1, 2571 Nicosia Page **58** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) Date: 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



the system in question. File system permissions and other features available in the operating system security model are used to prevent any other use. User accounts are removed as soon as possible when the role change dictates. Access rules are audited annually.

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

Direct access to JCC Payment Systems databases supporting JCC Payment Systems QTSP Operations is limited to Trusted Persons having a valid business reason for such access.

The JCC Payment Systems certification services system components are managed in accordance with defined change management procedures. These procedures include system testing in an isolated test environment and the requirement that change must be approved by the Security Officer. The approval is documented for further reference.

All media containing production environment software and data, audit, archive, or backup information are stored within JCC Payment Systems with appropriate physical and logical access controls. Media containing Sensitive Information are securely disposed of when no longer required.

Incident response and vulnerability management procedures are documented in an internal document. Monitoring system detects and alarms of abnormal system activities that indicate potential security violation, including intrusion into the network.

Paper documents and materials with Sensitive Information are shredded before disposal. Media used to collect or transmit Sensitive Information are rendered unreadable before disposal.

RAs must ensure that the systems maintaining software and data files are trustworthy systems, secure from unauthorized access and logically separated from other components. RAs must use firewalls to protect the network from internal and external intrusion and limit the nature and source of activities that may access such systems and information.

## 6.5.2 Computer Security Rating

No stipulation.

Stadiou 1, 2571 Nicosia Page **59** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy **Public Use** 

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



## 6.6 Life Cycle Technical Controls

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

New versions of software are developed and implemented by JCC Payment Systems in accordance to change management procedure.

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

## 6.6.2 Security Management Controls

JCC Payment Systems has mechanisms and/or policies in place to control and monitor the configuration of its CA systems.

JCC Payment Systems follows the network security guidelines of section 7.8 of ETSI EN 319 401. Upon installation and periodically thereafter, JCC Payment Systems validates the integrity of its CA systems.

Only the software directly used for performing the tasks is used in the information system.

## 6.6.3 Life Cycle Security Controls

JCC Payment Systems policies and assets are reviewed at planned intervals, or when significant changes occur to ensure their continuing suitability, adequacy and effectiveness.

The configurations of the systems of JCC Payment Systems are checked at least annually for changes that violate the JCC Payment Systems security policies. The Security Officer approves changes that have an impact on the level of security provided.

JCC Payment Systems has procedures for ensuring that security patches are applied to the certification system within a reasonable time period after they become available, but not later than six months following the availability of the security patch. The reasons for not applying any security patches will be documented.

JCC Payment Systems manages the registration of information assets and classifies all information assets into security classes according to the results of the regular security analysis consistent with the risk assessment.

## **6.7 Network Security Controls**

All CA and RA functions are using networks secured in accordance with ADACOM ISMS, JCC Payment Systems ISMS and to prevent unauthorized access and other malicious activity. JCC Payment Systems ensures all communications of sensitive information is protected through the use of encryption and digital signatures.

Stadiou 1, 2571 Nicosia Page **60** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



The security level of the internal network and external connections is constantly monitored to prevent all access to protocols and services not required for the operation of the Trust Services.

JCC Payment Systems performs a vulnerability assessment periodically on public and private IP addresses. Also, penetration tests are performed on the certification systems annually or upon major changes.

# 6.8 Time-Stamping

Certificates, CRLs, and other revocation database entries contain time and date information. The system time on JCC Payment Systems' computers is updated using the Network Time Protocol (NTP) to synchronize system clocks at least once every one hour.

Stadiou 1, 2571 Nicosia Page **61** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



## 7. CERTIFICATE, CRL, AND OCSP PROFILES

#### 7.1 Certificate Profile

Certificate profile is in accordance with the X.509 version 3, the IETF RFC 5280 and clause 6.6.1 of ETSI EN 319 411-1.

#### 7.1.1 Version Number

All Certificates are X.509 version 3 Certificates.

#### 7.1.2 Certificate Extensions

Every issued certificate includes extensions as they are defined for X.509v3 Certificates.

JCC Payment Systems' Technically Constrained Issuing CA Certificates include an Extended Key Usage (EKU) extension specifying all extended key usages for which the Issuing CA Certificate is authorized to issue certificates. The anyExtendedKeyUsage KeyPurposeId does not appear in the EKU extension of JCC Payment Systems trusted certificates.

Below is a list of extensions used by JCC Payment Systems for each type of certificate.

#### 7.1.2.1 For Root CAs

Standard Extension	Field	Value
Basic Constraint	Subject Type	CA
	Maximum Path Length	None
Certificate Policies	Cert Policy ID	1.3.6.1.4.1.56511.1.1
	Cert Policy Qualifier ID	1.3.6.1.5.5.7.2.1 (CP/CPS Pointer)
	Cert Qualifier	https://pki.jcc.com.cy/repository
Key Usage	Certificate Signing	Set
	Off-line CRL Signing	Set
	CRL Signing	Set
Subject Key Identifier	Key Identifier  This field contains the ID of the Certificate key.	
Authority Key Identifier	Key Identifier	This field contains the Subject Key Identifier of the Root Certificate.

## 7.1.2.2 For Issuing CAs for eID (JCC eID CA)

Standard Extension	Field	Value
Authority Key Identifier		This field contains the Subject Key Identifier of the issuer's Certificate.

Stadiou 1, 2571 Nicosia Page **62** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



Basic Constraint	Subject Type	CA
	Maximum Path Length	0
Certificate Policies	Cert Policy ID	1.3.6.1.4.1.56511.1.1.2
	Cert Policy Qualifier ID	1.3.6.1.5.5.7.2.1 (CP/CPS Pointer)
	Cert Qualifier	https://pki.jcc.com.cy/cps
CRL Distribution Point	Distribution Point	Full Name
	Uniform Resource ID	http://crl.jcc.com.cy/ca/root.crl
Key Usage	Certificate Signing	Set
	Off-line CRL Signing	Set
	CRL Signing	Set
Authority Information Access	Access Method	1.3.6.1.5.5.7.48.2
Access	Access Location	http://pki.jcc.com.cy/certs/root.crt
Subject Key Identifier	Key Identifier	This field contains the ID of the Certificate Holder's key.
Subject Alternative Name	Directory Address	CN=PRIVATE-4096-10

# 7.1.2.3 For Issuing CAs for eID (JCC eID CA G1)

Standard Extension	Field	Value
Authority Key Identifier	Key Identifier	This field contains the Subject Key Identifier of the issuer's Certificate.
Basic Constraint	Subject Type	CA
	Maximum Path Length	0
Certificate Policies	Cert Policy ID	1.3.6.1.4.1.56511.1.1.2
	Cert Policy Qualifier ID	1.3.6.1.5.5.7.2.1 (CP/CPS Pointer)
	Cert Qualifier	https://pki.jcc.com.cy/repository
CRL Distribution Point	Distribution Point	Full Name
	Uniform Resource ID	http://crl.jcc.com.cy/ca/root.crl
Key Usage	Certificate Signing	Set
	Off-line CRL Signing	Set
	CRL Signing	Set
Authority Information Access	Access Method	1.3.6.1.5.5.7.48.2
Access	Access Location	http://pki.jcc.com.cy/certs/root.crt

Stadiou 1, 2571 Nicosia Page **63** of **92**T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a>
Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



Subject Key Identifier	Key Identifier	This field contains the ID of the Certificate Holder's
		key.

# 7.1.2.4 For eID electronic signatures

Standard Extension	Field	Value
Authority Key Identifier	Key Identifier	This field contains the Subject Key Identifier of the issuer's Certificate.
Basic Constraint	End Entity	Yes
	Maximum Path Length	None
Certificate Policies	Cert Policy ID	
	Cert Policy Qualifier ID	1.3.6.1.5.5.7.2.1 (CPS Pointer)
	Cert Qualifier	https://pki.jcc.com.cy/cps
	Cert Policy ID	1.3.6.1.4.1.56511.1.1.2
	Cert Policy ID	1.3.6.1.4.1.56511.1.1.2.1
	Cert Policy ID	0.4.0.194112.1.2
CRL Distribution Point	Distribution Point	Full Name
	Uniform Resource ID	http://pki.jcc.com.cy/crl/eID/LatestCRL.crl or http://pki.jcc.com.cy/crl/eID-G1/LatestCRL.crl
Key Usage	Non-Repudiation	Set
	Digital Signature	Set
Qualified Certificate Statements	etsiQcsCompliance	0.4.0.1862.1.1
Statements	etsiQcsQcSSCD	0.4.0.1862.1.4
	etsiQcPDS	0.4.0.1862.1.5
	PDS Location	https://pki.jcc.com.cy/repository/PDS/
	etsiQcType	0.4.0.1862.1.6
	etsiQcTypeEsign	0.4.0.1862.1.6.1
Authority Information Access	Access Method	1.3.6.1.5.5.7.48.1
Access	Access Location	http://ocsp.jcc.com.cy_or_http://ocsp2.jcc.com.cy
	Access Method	1.3.6.1.5.5.7.48.2
	Access Location	http://pki.jcc.com.cy/certs/ca-eid.crt or http://pki.jcc.com.cy/certs/ca-eidq1.crt
Subject Key Identifier	Key Identifier	This field contains the ID of the Certificate Holder's key.

Stadiou 1, 2571 Nicosia Page **64** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



## 7.1.2.5 For eID authentication

Standard Extension	Field	Value
Authority Key Identifier	Key Identifier	This field contains the Subject Key Identifier of the issuer's Certificate.
Basic Constraint	End Entity	Yes
	Maximum Path Length	None
Certificate Policies	Cert Policy ID	
	Cert Policy Qualifier ID	1.3.6.1.5.5.7.2.1 (CPS Pointer)
	Cert Qualifier	https://pki.jcc.com.cy/cps
	Cert Policy ID	1.3.6.1.4.1.56511.1.1.2
	Cert Policy ID	1.3.6.1.4.1.56511.1.1.2.2
	Cert Policy ID	0.4.0.2042.1.2
CRL Distribution Point	Distribution Point	Full Name
	Uniform Resource ID	http://pki.jcc.com.cy/crl/eID/LatestCRL.crl
		or http://pki.jcc.com.cy/crl/eID-G1/LatestCRL.crl
Key Usage	Digital Signature	Set
Authority Information Access	Access Method	1.3.6.1.5.5.7.48.1
Access	Access Location	http://ocsp.jcc.com.cy_or_http://ocsp2.jcc.com.cy
	Access Method	1.3.6.1.5.5.7.48.2
	Access Location	http://pki.jcc.com.cy/certs/ca-eid.crt or http://pki.jcc.com.cy/certs/ca-eidq1.crt
Subject Key Identifier	Key Identifier	This field contains the ID of the Certificate Holder's key.

# 7.1.3 Algorithm Object Identifiers

The signature algorithms follow the specifications described in sections 6.1.5 and 6.1.6. All algorithms used for CAs and Subscriber follow current research and industry standards to deliver reasonable security for the intended purposes they are being used.

## 7.1.4 Name Forms

Each Certificate includes a unique serial number that is never reused

Stadiou 1, 2571 Nicosia Page **65** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



The content of the Certificate Issuer Distinguished Name field matches the Subject DN of the Issuer CA to support name chaining as specified in RFC 5280, section 4.1.2.4.

## 7.1.4.1 For eID Signature certificate

Field		Value	
Issuer		For Issuing CA certificates, the commonName attribute is present and the contents is an identifier that uniquely identifies the CA and distinguishes it from other CAs.	
	Common Name	Space separated Person Given name and Surname.	
	givenName	Person given name in UTF8 format according to RFC5280	
Subject DN	sureName	Person surename in UTF8 format according to RFC5280	
	serialNumber	Personal Identification Card with the following semantics: "IDCCY-0000123456787"	
	Country	2-character ISO 3166 country code	
Version	3		
Serial number	Unique serial number of the certificate		
Key Size	Of sufficient streng	Of sufficient strength to meet current industry standards	
Validity Start	First date of certificate validity		
Validity End	Last date of certific	Last date of certificate validity	
Signature Algorithm	Sha256withRSAEncryption		

## 7.1.4.2 For eID Authentication certificate

Field	Value	
Issuer	For Issuing CA certificates, the commonName attribute is present and the contents is an identifier that uniquely identifies the CA and distinguishes it from other CAs.	
	Common Name	Space separated Person Given name and Surname.
	givenName	Person given name in UTF8 format according to RFC5280
Subject DN	sureName	Person surename in UTF8 format according to RFC5280
	serialNumber	Personal Identification Card with the following semantics: "IDCCY-0000123456787"
	Country	2-character ISO 3166 country code
Version	3	
Serial number	Unique serial number of the certificate	
Key Size	Of sufficient strength to meet current industry standards	
Validity Start	First date of certificate validity	
Validity End	Last date of certificate validity	
Signature Algorithm	Sha256withRSAEncryption	

## 7.1.5 Name Constraints

JCC Payment Systems may include name constraints in the nameConstraints field when appropriate.

Stadiou 1, 2571 Nicosia Page **66** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



If an Issuing CA Certificate includes the extended key usage "id-kp-emailProtection" it is treated as technically constrained and audited as described in section 8.

## 7.1.6 Certificate Policy Object Identifier

According to each certificate type, the following recognized OIDs can be added in the certificatePolicies extension:

• QCP-n-qscd: 0.4.0.194112.1.2 as described in ETSI EN 319 411-2

• **QCP-l-qscd**: 0.4.0.194112.1.3 as described in ETSI EN 319 411-2

NCP+: 0.4.0.2042.1.2 as described in ETSI EN 319 411-1

## 7.1.7 Usage of Policy Constraints Extension

Not applicable.

# 7.1.8 Policy Qualifiers Syntax and Semantics

The policy qualifier is the URI which points to the published JCC Payment Systems CPS.

## 7.1.9 Processing Semantics for the Critical Certificate Policies Extension

No stipulation.

## 7.2 CRL Profile

CRL profile is in accordance with the X.509 version 2 and the IETF RFC 5280.

#### 7.2.1 Version number

JCC Payment Systems issues version 2 CRLs that contain the following fields:

Field	Value
Issuer Signature Algorithm	sha-256WithRSAEncryption [1 2 840 113549 1 1 11]
Issuer Distinguished Name	JCC Issuing CA SubjectDN
thisUpdate	CRL issue date in UTC format
nextUpdate	Date when the next CRL will issue in UTC format.
Revoked Certificates List	List of revoked Certificates, including the serial
	number and revocation date
Signature	The signature algorithm MUST follow the
	requirements described in sections 6.1.5 and 6.1.6

Stadiou 1, 2571 Nicosia Page **67** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



## 7.2.2 CRL and CRL Entry Extensions

CRLs have the following extensions:

Extension	Value
CRL Number	Never repeated monotonically increasing integer
Authority Key Identifier	Same as the Authority Key Identifier listed in the
	Certificate
Invalidity Date	Optional date in UTC format
Reason Code	Optional reason for revocation
ExpiredCertsOnCRL	This CRL extension field indicates that the CRL
	includes revocation notices for expired certificates

## 7.3 OCSP Profile

## 7.3.1 Version Number

JCC's OCSP responders conform to version 1 of RFC 6960.

#### 7.3.2 OCSP Extensions

Standard Extension	Field	Value
Authority Key Identifier	Key Identifier	This field contains the Subject Key Identifier of the issuer's Certificate.
Basic Constraint	End Entity	Yes
	Maximum Path Length	None
Certificate Policies	Cert Policy ID	1.3.6.1.4.1.56511.1.1.1
	Cert Policy Qualifier	<b>1.3.6.1.5.5.7.2.1</b> (CPS Pointer)
	Cert Qualifier	https://pki.jcc.com.cy/cps
Key Usage	Digital Signature	Set
OCSP No Revocation Checking	ocsp-nocheck	Set
Enhanced Key Usage	OCSP Signing	Set
Subject Key Identifier	RFC822 Name	This field contains the ID of the Certificate Holder's key.

Stadiou 1, 2571 Nicosia Page **68** of **92**T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a>
Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



Stadiou 1, 2571 Nicosia Page **69** of **92**T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a>
Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



#### 8. COMPLIANCE AUDIT AND OTHER ASSESSMENTS

The conformity of information system, policies and practices, facilities, personnel, and assets of JCC Payment Systems are assessed by a conformity assessment body pursuant to the eIDAS regulation, the corresponding legislation and standards, or whenever a major change is made to Trust Service operations, based on ETSI standards listed in Section 9.15.

In addition to compliance audits, JCC Payment Systems is entitled to perform other reviews and investigations to ensure the trustworthiness of JCC Payment Systems Certification Services. JCC Payment Systems is entitled to delegate the performance of these audits, reviews, and investigations to a third party audit firm.

JCC Payment Systems is entitled to perform second party audits to contractors that are under a relationship with JCC Payment Systems to operate as Registration Authorities (RA) or Local Registration Authorities (LRAs).

# 8.1 Frequency and Circumstances of Assessment

JCC Payment Systems Compliance Audits are conducted at least annually. Audits are conducted over unbroken sequences of audit periods with each period no longer than one-year duration.

# 8.2 Identity/Qualifications of Assessor

JCC Payment Systems CA compliance audits are performed by:

- Internal Auditors,
- A conformity assessment body which is accredited in accordance with Regulation EC no 765/2008 and EN 319 403, the ETSI standards and the Baseline Requirements (section 8.2).
- The Supervisory Body

## 8.3 Assessor's Relationship to Assessed Entity

The auditor of the conformity assessment body shall be independent from JCC Payment Systems and JCC Payment Systems assessed systems.

The internal auditor shall not audit his/her own areas of responsibility.

# 8.4 Topics Covered by Assessment

The conformity assessment covers the conformity of JCC Payment Systems information system, policies and practices, facilities, personnel, and assets with eIDAS regulation, respective legislation and standards. Conformity assessment body audits the parts of information system used to provide Trust Services.

Stadiou 1, 2571 Nicosia Page **70** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



The areas of activity subject to internal auditing are the following:

- Quality of service;
- Security of service;
- Security of operations and procedures;
- Protection of the data of Subscribers and security policy, performance of work procedures and contractual obligations, as well as compliance with the CP and servicebased Policies and Practice statements.

The Conformity Assessment Body and the Internal Auditor also audit these parts of the information system, policies and practices, facilities, personnel, and the assets of subcontractors that are related to providing JCC Payment Systems Trust Services (e.g. including LRAs).

# 8.5 Actions Taken as a Result of Deficiency

With respect to compliance audits of JCC Payment Systems operations, significant exceptions or deficiencies identified during the Compliance Audit will result in a determination of actions to be taken. This determination is made by JCC Payment Systems management with input from the auditor. JCC Payment Systems QTSP Policy Officer is responsible for developing and implementing a corrective action plan. If JCC Payment Systems determines that such exceptions or deficiencies pose an immediate threat to the security or integrity of the Trust Services, a corrective action plan will be developed within 30 days and implemented within a commercially reasonable period of time. For less serious exceptions or deficiencies, JCC Payment Systems QTSP Policy Officer will evaluate the significance of such issues and determine the appropriate course of action.

Additionally, in the event of a result of the assessment by the Conformity Assessment Body, showing deficiency, the Supervisory Body requires JCC Payment Systems to remedy any failure to fulfil requirements within a time limit (if applicable) set by the Supervisory Body. JCC Payment Systems makes efforts to stay compliant and fulfil all requirements of the deficiency on time. JCC Payment Systems QTSP Policy Officer is responsible to implement a corrective action plan. JCC Payment Systems evaluates the significances of deficiencies and prioritizes appropriate actions to be taken at least during the time limit declared by Supervisory Body or reasonable period of time.

Where personal data protection rules appear to have been breached, the Supervisory Body shall inform the data protection authority of the results of the compliance audit.

## 8.6 Communications of Results

Audit conclusions or certificate(s) for trust service(s), which are based on audit results of the conformity assessment body conducted pursuant to the eIDAS regulation, corresponding

Stadiou 1, 2571 Nicosia Page **71** of **92**T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



legislation and standards, may be published on JCC Payment Systems repository https://pki.jcc.com.cy/repository.

In addition, JCC Payment Systems submits the resulting conformity assessment report to the Supervisory Body within at period of three (3) working days of receiving it. JCC Payment Systems submits the audit conclusions or certificate(s) for trust service(s) to maintainers of the Browsers Root Programs in which JCC Payment Systems is participating and other interested parties.

Results of the internal audits of JCC Payment Systems operations may be released at the discretion of JCC Payment Systems Management.

## 8.7 Self-audits

JCC Payment Systems performs regular internal audits in order to ascertain compliance as per Section 8.4.

Stadiou 1, 2571 Nicosia Page **72** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



# 9. OTHER BUSINESS AND LEGAL MATTERS

#### **9.1** Fees

#### 9.1.1 Certificate Issuance or Renewal Fees

JCC Payment Systems charges Subscribers for the issuance, management, and re-key of Certificates.

#### 9.1.2 Certificate Access Fees

JCC Payment Systems does not charge a fee as a condition of making a Certificate available in a repository or otherwise making Certificates available to Relying Parties.

#### 9.1.3 Revocation or Status Information Access Fees

JCC Payment Systems does not charge a fee as a condition of OCSP services and making the CRLs required by this CPS available in a repository or otherwise available to Relying Parties. JCC Payment Systems does not permit access to revocation information or certificate status information in their repositories by third parties that provide products or services that utilize such Certificate status information without JCC Payment Systems prior express written consent.

#### 9.1.4 Fees for Other Services

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

#### 9.1.5 Refund Policy

#### 9.1.5.1 Distant sales

In case the sale of the Certificate is effected via the internet or a phone call the Subscriber has the right, under Article 8 § 1 of L. 133(I)/2013, as amended, to withdraw from the sales contract without stating the reasons within an exclusive time limit of fourteen (14) calendar days from the date of purchase. The exercise of this right shall be made in writing by the Subscriber to JCC Payment Systems, sending an email to <a href="mailto:trust-sales@icc.com.cy">trust-sales@icc.com.cy</a> Subsequently, and following communication, JCC Payment Systems is obliged to repay the money corresponding to the value of the sales contract to the Subscriber. Refund payment is effected with the same method as initial payment and the Subscriber is not entitled to use the Certificate. After that period, the right of withdrawal expires and JCC Payment Systems has no further obligation for the above cause.

Stadiou 1, 2571 Nicosia Page **73** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) Date: 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



# **9.1.5.2** Other cases

Subject to Section 9.1.5.1 JCC Payment Systems handles refund case-by-case.

To request a refund Subscriber should send a written application to JCC Payment Systems. This refund policy is not an exclusive remedy and does not limit other remedies that may be available to subscribers.

# 9.2 Financial Responsibility

#### 9.2.1 Insurance Coverage

JCC Payment Systems maintains a commercially reasonable level of civil liability insurance coverage for errors and omissions through an errors and omissions insurance program with an insurance carrier.

#### 9.2.2 Other Assets

JCC Payment Systems has sufficient financial resources to maintain its operations and perform its duties, and is reasonably able to bear the risk of liability to Subscribers and Relying Parties. Proof of financial resources is not made publicly available.

# 9.2.3 Insurance or Warranty Coverage for End-Entities

See Section 9.2.1 of this CPS.

# 9.3 Confidentiality of Business Information

# 9.3.1 Scope of Confidential Information

All information that has become known while providing services and that is not intended for publication (e.g. information that had been known to JCC Payment Systems because of operating and providing Trust Services) is confidential. Subscriber has a right to get information from JCC Payment Systems about him/herself according to the applicable laws.

# 9.3.2 Information Not Within the Scope of Confidential Information

Any information not listed as confidential or intended for internal use is public information. Information considered public in JCC Payment Systems is listed in section 2.2 of this CPS.

Additionally, non-personalised statistical data about JCC Payment Systems services is also considered public information. JCC Payment Systems may publish non-personalised statistical data about its services.

Page **74** of **92** Stadiou 1, 2571 Nicosia T: +357 22 868500 email: trust-services@jcc.com.cy **Public Use** 

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



# 9.3.3 Responsibility to Protect Confidential Information

JCC Payment Systems secures confidential information and information intended for internal use from compromise and disclosure to third parties by implementing different security controls.

Disclosure or forwarding of confidential information to a third party is permitted only with the written consent of the legal possessor of the information on the basis of a court order or in other cases provided by law.

# 9.4 Privacy of Personal Information

# 9.4.1 Privacy Plan

JCC Payment Systems has implemented a privacy policy which is located at: https://pki.jcc.com.cy/repository in compliance with the applicable laws.

#### 9.4.2 Information Treated as Private

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

## 9.4.3 Information Not Deemed Private

Subject to applicable laws, all information made public in a certificate is deemed not private.

# 9.4.4 Responsibility to Protect Private Information

JCC Payment Systems secures private information from compromise and disclosure to third parties and complies with all applicable privacy laws.

# 9.4.5 Notice and Consent to Use Private Information

Unless where otherwise stated in this CPS, the applicable Privacy Policy or by agreement, private information are not used without the consent of the party to whom that information applies, in accordance with applicable privacy laws.

#### 9.4.6 Disclosure Pursuant to Judicial or Administrative Process

JCC Payment Systems shall be entitled to disclose Confidential Information if, in good faith, JCC Payment Systems believes that:

- Disclosure is necessary in response to subpoenas and search warrants.
- Disclosure is necessary in response to judicial, administrative, or other legal process during the discovery process in a civil or administrative action, such as subpoenas, interrogatories, requests for admission, and requests for production of documents.

Stadiou 1, 2571 Nicosia Page **75** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



This section is subject to applicable privacy laws.

# 9.4.7 Disclosure upon Owner's Request

JCC Payment Systems privacy policy contains provisions relating to the disclosure of private Information to the person disclosing it to JCC Payment Systems. This section is subject to applicable privacy laws.

#### 9.4.8 Other Information Disclosure Circumstances

No stipulation.

# 9.5 Intellectual Property rights

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

# 9.5.1 Property Rights in Certificates and Revocation Information

CAs retain all Intellectual Property Rights in and to the Certificates and revocation information that they issue. JCC Payment Systems grants permission to reproduce and distribute Certificates on a nonexclusive royalty-free basis, provided that they are reproduced in full and that use of Certificates is subject to the General Terms and Conditions for Use of Certificates referenced in the Certificate. JCC Payment Systems grants permission to use revocation information to perform Relying Party functions subject to the applicable General Terms and Conditions for Use of Certificates, or any other applicable agreements.

# 9.5.2 Property Rights in the CPS

Subscribers acknowledge that JCC Payment Systems retains all Intellectual Property Rights in and to this CPS.

# 9.5.3 Property Rights in Names

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

# 9.5.4 Property Rights in Keys and Key Material

Key pairs corresponding to Certificates of CAs and Subscribers are property of the CAs and Subscribers that are the respective Subjects of these Certificates, regardless of the physical medium within which they are stored and protected, and such persons retain all Intellectual Property Rights in and to these key pairs. Without limiting the generality of the foregoing, JCC

Stadiou 1, 2571 Nicosia Page **76** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



Payment Systems' Root public keys and the Root Certificates containing them, including all PRCA public keys and self-signed Certificates, are the property of JCC Payment Systems. Finally, Secret Shares of a CA's private key are the property of the CA, and the CA retains all Intellectual Property Right in and to such Secret Shares even though they cannot obtain physical possession of those shares or the CA from JCC Payment Systems.

# 9.5.5 Violation of Property Rights

JCC Payment Systems does not knowingly violate the intellectual property rights of any third party.

# 9.6 Representations and Warranties

# 9.6.1 CA Representations and Warranties

JCC Payment Systems CA warrants that:

- Provides its services consistent with the requirements and the procedures defined in this CPS and related documents;
- Complies with eIDAS regulation and related legal acts defined in this CPS and related documents;
- Publishes its CPS and related documents and guarantees their availability in a public data communications network;
- Publishes and meet its claims in terms and conditions for subscribers and guarantees their availability and access in a public data communications network;
- Maintains confidentiality of the information which has come to its knowledge in the course of supplying the service and is not subject to publication;
- Keeps account of the Trust Service Tokens issued by it and their validity and ensure possibility to check the validity of certificates;
- Ensures the access to the private keys on the Remote QSCD to the authorized Subject of the keys.
- Ensures the proper management and compliance of the Remote QSCD
- Informs the Supervisory Body of any changes to a public key used for the provision Trust Services;
- Without undue delay but in any event within 24 hours after having become aware of it, notify the Supervisory Body and, where applicable, other relevant bodies as national CERT or Data Inspectorate, of any breach of security or loss of integrity that has a significant impact on the Trust Service provided or on the personal data maintained therein;
- Where the breach of security or loss of integrity is likely to adversely affect a natural
  or legal person to whom the Trusted Service has been provided, notify the natural or
  legal person of the breach of security or loss of integrity without undue delay;
- Preserves all the documentation, records and logs related to Trust Services according to Sections 5.4 and 5.5;

Stadiou 1, 2571 Nicosia Page **77** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



- Ensures a conformity assessment according to requirements and present the conclusion of conformity assessment body to the Supervisory Body to ensure continual status of Trust Services in the Trusted List;
- Has the financial stability and resources required to operate in conformity with this CPS;
- Publishes the terms of the compulsory insurance policy and the conclusion of conformity assessment body in a public data communications network;
- Provides access to its services for persons with disabilities where feasible;
- There are no material misrepresentations of fact in the Certificate known to or originating from the entities approving the Certificate Application or issuing the Certificate;
- There are no errors in the information in the Certificate that were introduced by the
  entities approving the Certificate Application or issuing the Certificate as a result of a
  failure to exercise reasonable care in managing the Certificate Application or creating
  the Certificate;
- Revocation services and use of a repository conform to the applicable CPS in all material aspects.

JCC Payment Systems General Terms and Conditions for Use of Certificates may include additional representations and warranties.

# 9.6.2 RA Representations and Warranties

JCC Payment Systems RA warrants that:

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

JCC Payment Systems General Terms and Conditions for Use of Certificates may include additional representations and warranties.

# 9.6.3 Subscriber Representations and Warranties

Subscribers warrant that:

Each EU Qualified e-Signature or created using the private key corresponding to the
public key listed in the EU Qualified Certificate, is the EU Qualified e-Signature of the
Subscriber and the EU Qualified Certificate has been accepted and is operational (not
expired or revoked) at the time the EU Qualified e-Signature is created;

Stadiou 1, 2571 Nicosia Page **78** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



- Each authentication performed using the private key corresponding to the public key listed in the Authentication Certificate, is the authentication of the subscriber and the authentication certificate has been accepted and is operational (not expired or revoked) at the time authentication is created;
- The credentials (PIN, username, password, authorization through mobile application using passcode or biometrics) accessing the private key are protected and that no unauthorized person has ever had access to them;
- EU Qualified e-Signature or Authentication are only created by a QSCD device;
- All representations made by the Subscriber in the Certificate Application the Subscriber submitted are true, and the Subscriber is aware of the fact that JCC Payment Systems may refuse to provide the service if the Subscriber has intentionally presented false, incorrect or incomplete information in the application for the service;
- The Subscriber observes the requirements provided by JCC Payment Systems in this CPS and the related documents;
- All information supplied by the Subscriber and contained in the Certificate is true and in the event of a change in the data submitted, Subscriber shall notify the correct data in accordance with the rules established by this CPS and the related documents;
- The Certificate is being used exclusively for authorized and legal purposes, consistent with this CPS;
- The Subscriber is not a CA, and is not using the private key corresponding to any public key listed in the Certificate for purposes of digitally signing any Certificate (or any other format of certified public key) or CRL, as a CA or otherwise;
- The Subscriber shall notify JCC Payment Systems without any reasonable delay, if Subject's private key or control to it has been lost, stolen, potentially compromised.

JCC Payment Systems General Terms and Conditions for Use of Certificates may include additional representations and warranties.

#### 9.6.4 Relying Party Representations and Warranties

JCC Payment Systems General Terms and Conditions for Use of Certificates require Relying Parties to acknowledge that they have sufficient information to make an informed decision as to the extent to which they choose to rely on the information in a Certificate, that they are solely responsible for deciding whether or not to rely on such information, and that they shall bear the legal consequences of their failure to perform the Relying Party obligations in terms of this CPS.

JCC Payment Systems General Terms and Conditions for Use of Certificates may include additional representations and warranties of Relying Parties.

# 9.6.5 Representations and Warranties of Other Participants

No stipulation.

Stadiou 1, 2571 Nicosia Page **79** of **92**T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



# 9.7 Disclaimers of Warranties

To the extent permitted by applicable law, General Terms and Conditions for Use of Certificates disclaim JCC Payment Systems possible warranties, including any warranty of merchantability or fitness for a particular purpose.

JCC Payment Systems is not liable for:

- The secrecy of the credentials (PIN, username, password, authorization through mobile application using passcode or biometrics) that have access to the private keys of the Subjects, possible misuse of the certificates or inadequate checks of the certificates or for the wrong decisions of a Relying Party or any consequences due to errors or omission in Trust Service validation checks;
- The non-performance of its obligations if such non-performance is due to faults or security problems of the Supervisory Body, the data protection supervision authority, Trusted List or any other public authority;
- Non-fulfilment of the obligations arising from this CPS and the related documents if such non-fulfilment is occasioned by Force Majeure.

# 9.8 Limitations of Liability

JCC Payment Systems General Terms and Conditions for Use of Certificates limit JCC Payment Systems liability. Limitations of liability include an exclusion of indirect, special, incidental, and consequential damages. They also include the liability cap of one thousand Euros (1,000.00 €) limiting JCC Payment Systems damages concerning a Certificate.

The liability (and/or limitation thereof) of Subscribers and Relying Parties is as set forth in the applicable General Terms and Conditions for Use of Certificates.

#### 9.9 Indemnities

# 9.9.1 Indemnification by Subscribers

To the extent permitted by applicable law, Subscribers are required to indemnify JCC Payment Systems for:

- Falsehood or misrepresentation of fact by the Subscriber on the Subscriber's Certificate Application,
- Failure by the Subscriber to disclose a material fact on the Certificate Application, if the misrepresentation or omission was made negligently or with intent to deceive any party,
- The Subscriber's failure to protect the Subscriber's private key, to use a Trustworthy System, or to otherwise take the precautions necessary to prevent the compromise, loss, disclosure, modification, or unauthorized use of the Subscriber's private key, or

Stadiou 1, 2571 Nicosia Page **80** of **92**T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) Date: 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



• The Subscriber's use of a name (including without limitation within a common name, domain name, or e-mail address) that infringes upon the Intellectual Property Rights of a third party.

JCC Payment Systems General Terms and Conditions for Use of Certificates may include additional indemnity obligations.

# 9.9.2 Indemnification by Relying Parties

To the extent permitted by applicable law, JCC Payment Systems General Terms and Conditions for Use of Certificates requires Relying Parties to indemnify JCC Payment Systems for:

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

JCC Payment Systems General Terms and Conditions for Use of Certificates may include additional indemnity obligations.

# 9.10 Term and Termination

#### 9.10.1 Term

The CPS becomes effective upon publication in the JCC Payment Systems repository. Amendments to this CPS become effective upon publication in the JCC Payment Systems repository.

#### 9.10.2 Termination

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

## 9.10.3 Effect of Termination and Survival

Upon termination of this CPS, JCC Payment Systems Participants are nevertheless bound by its terms for all certificates issued for the remainder of the validity periods of such certificates.

# 9.11 Individual Notices and Communications with Participants

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

Section 1.5.1 provides all the available means of communication.

Page **81** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy **Public Use** 

Electronic Identity (eID) Date: 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



# 9.12 Amendments

#### 9.12.1 Procedure for Amendment

Amendments to this CPS are made by the JCC Payment Systems QTSP Policy Officer. Amendments are either in the form of a document containing an amended form of the CPS or an update. Amended versions or updates are linked to JCC Payment Systems repository located at: https://pki.jcc.com.cy/repository. Updates supersede any designated or conflicting provisions of the referenced version of the CPS. The QTSP Policy Officer shall determine whether changes to the CPS require a change in the Certificate policy object identifiers of the Certificate policies.

#### 9.12.2 Notification Mechanism and Period

JCC Payment Systems QTSP Policy Officer reserves the right to amend the CPS without notification for amendments that are not material, including without limitation corrections of typographical errors, changes to URLs, and changes to contact information. The QTSP Policy Officer decision to designate amendments as material or non-material shall be within the QTSP Policy Officer sole discretion.

Proposed amendments to the CPS are linked to JCC Payment Systems Repository located at: https://pki.jcc.com.cy/repository.

Notwithstanding anything in the CPS to the contrary, if the QTSP Policy Officer believes that material amendments to the CPS are necessary immediately to stop or prevent a breach of the security of the TSP or any portion of it, JCC Payment Systems management and the QTSP Policy Officer shall be is entitled to make such amendments by publication in the JCC Payment Systems repository. Such amendments will be effective immediately upon publication. Within a reasonable time after publication, JCC Payment Systems provides notice to of such amendments to JCC Payment Systems Participants.

At a minimum JCC Payment Systems management and the QTSP Policy Officer will update this CPS annually.

Amendments which do not change the meaning of this CPS, such as spelling corrections, translation activities and contact details updates are documented in the Versions and Changes section of the present document. In this case the fractional part of the document version number is enlarged.

In case of substantial changes, the new CPS version is clearly distinguishable from the previous ones and the serial number is enlarged by one.

Page 82 of 92 Stadiou 1, 2571 Nicosia T: +357 22 868500 email: trust-services@jcc.com.cy **Public Use** 

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



# 9.12.3 Circumstances under Which OID Must be changed

If the QTSP Policy Officer, determines that a change is necessary in the object identifier corresponding to a Certificate policy, the amendment contains new object identifiers for the Certificate policies. Otherwise, amendments shall not require a change in Certificate policy object identifier.

# **9.13 Dispute Resolution Provisions**

# 9.13.1 Disputes among JCC, Affiliates, and Customers

Disputes among JCC Payment Systems Participants are resolved pursuant to provisions in the applicable agreements among the parties.

# 9.13.2 Disputes with Subscribers or Relying Parties

JCC Payment Systems General Terms and Conditions for Use of Certificates contain a dispute resolution clause. Disputes involving JCC Payment Systems require an initial negotiation period of sixty (60) days followed by litigation in the courts of Cyprus.

# 9.14 Governing Law

The law of Cyprus governs the enforceability, construction, interpretation, and validity of this CPS, irrespective of contract or other choice of law provisions and without the requirement to establish a commercial nexus in Cyprus. This choice of law is made to ensure uniform procedures and interpretation for all JCC Payment Systems Participants, no matter where they are located.

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

# 9.15 Compliance with Applicable Law

JCC Payment Systems ensures compliance with the legal requirements to meet all applicable statutory requirements for protecting records from loss, destruction and falsification, and the requirements of the following:

- eIDAS 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;
- Any relevant national legislation implementing eIDAS or relating to trust services provision;

Stadiou 1, 2571 Nicosia Page **83** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner: QTSP Policy Officer** 



- Governing Law & decrees for Cyprus National Electronic Identity
- Personal Data laws and EU Regulations, such as Regulation (EU) 2016/679 (GDPR);
- Related European Standards:
  - a. ETSI EN 319 401 Electronic Signatures and Infrastructures (ESI); General Policy Requirements for Trust Service Providers;
  - ETSI EN 319 411-1 Electronic Signatures and Infrastructures (ESI); Policy and Security requirements for Trust Service Providers issuing certificates; Part 1: General requirements;
  - c. ETSI EN 319 411-2 Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates; Part 2: Policy requirements for certification authorities issuing qualified certificates;

# 9.16 Miscellaneous Provisions

# 9.16.1 Entire Agreement

Not applicable.

# 9.16.2 Assignment

Any entities operating under this CPS may not assign their rights or obligations without the prior written consent of JCC Payment Systems. Unless specified otherwise in a contract with a party, JCC Payment Systems does not provide notice of assignment.

# 9.16.3 Severability

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

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

JCC Payment Systems may claim indemnification and attorneys' fees from a party for damages, losses, and expenses related to that party's conduct. JCC Payment Systems failure to enforce a provision of this CPS does not waive JCC Payment Systems right to enforce the same provision later or right to enforce any other provision of this CPS. To be effective, waivers must be in writing and signed by JCC Payment Systems.

# 9.16.5 Force Majeure

Non-fulfilment of the obligations arising from the CPS and/or related documents is not considered a violation if such non-fulfilment is occasioned by Force Majeure. None of the parties shall claim damage or any other compensation from the other parties for delays or non-fulfilment of this CPS and/or related documents caused by Force Majeure.

Stadiou 1, 2571 Nicosia Page **84** of **92** T: +357 22 868500 email: trust-services@jcc.com.cy Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



# 9.1 Other Provisions

JCC Payment Systems incorporates by reference, through its CA Certificates, the General Terms and Conditions applicable to each Certificate it issues. This incorporation by reference is further described in the applicable CA Certificate Profile.

Stadiou 1, 2571 Nicosia Page **85** of **92**T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a>
Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



# Appendix A. Table of Acronyms and definitions

# **Table of Acronyms**

Term	Definition
CA	Certification Authority.
СР	Certificate Policy.
CPS	Certification Practice Statement.
CRL	Certificate Revocation List.
CSR	Certificate Signing Request
eID	Electronic Identity
FIPS	United State Federal Information Processing Standards.
LRA	Local Registration Authority
NCP	Normalized Certificate Policy
NCP+	Extended Normalized Certificate Policy
OCSP	Online Certificate Status Protocol.
OID	Object Identifier, a unique object identification code
PCA	Primary Certification Authority.
PDS	PKI Disclosure Statement
PIN	Personal identification number.
PKCS	Public-Key Cryptography Standard.
PKI	Public Key Infrastructure.
QSCD	Qualified Electronic Signature Creation Device
RA	Registration Authority.
RFC	Request for comment.
SSL	Secure Sockets Layer.
TSP	Trust Service Provider

# **Definitions**

Term	Definition
JCC PAYMENT	JCC PAYMENT SYSTEMS's database of Certificates and other
SYSTEMS Repository	relevant JCC PAYMENT SYSTEMS information accessible on-line.
Administrator	A Trusted Person within the organization that performs validation
	and other CA or RA functions.
Administrator	A Certificate issued to an Administrator that may only be used to
Certificate	perform CA or RA functions.

Stadiou 1, 2571 Nicosia Page **86** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



Term	Definition
Advanced electronic	An electronic seal that meets the following requirements:
seal	it is uniquely linked to the creator of the seal;
	it is capable of identifying the creator of the seal;
	it is created using electronic seal creation data that the creator of
	the seal can, with a high level of confidence under its control, use
	for electronic seal creation; and
	it is linked to the data to which it relates in such a way that any
Advanced electronic	subsequent change in the data is detectable.
signature	An electronic signature that meets the following requirements it is uniquely linked to the signatory;
Signature	it is capable of identifying the signatory;
	it is created using electronic signature creation data that the
	signatory can, with a high level of confidence, use under his sole
	control; and
	it is linked to the data signed therewith in such a way that any
	subsequent change in the data is detectable.
Authentication	Unique identification of a natural person by checking his/her
	alleged identity
Authentication	A Certificate which is intended for Authentication.
Certificate	
Certificate	Public key of a user, together with some other information,
	rendered un-forgeable by encipherment with the private key of the certification authority which issued it
Certificate Applicant	An individual or organization that requests the issuance of a
Certificate Applicant	Certificate by a CA.
Certificate	A request from a Certificate to a CA for the issuance of a
Application	Certificate.
Certificate Chain	An ordered list of Certificates containing a Subscriber Certificate
	and CA Certificates, which terminates in a root Certificate.
Certificate Policy (CP)	Named set of rules that indicates the applicability of a certificate
	to a particular community and/or class of application with
	common security requirements
Certificate	Signed list indicating a set of certificates that have been revoked
Revocation List (CRL)	by the certificate issuer
Certificate Signing	A message conveying a request to have a Certificate issued.
Request (CSR)	An anathur and animal and an anathur and another and animal and an animal and animal an
Certification	An entity authorized to create and assign certificates
Authority (CA)	

Stadiou 1, 2571 Nicosia Page **87** of **92**T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a>
Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



Term	Definition
Certification Practice Statement (CPS)	Statement of the practices which a Certification Authority employs in issuing managing, revoking, and renewing or re-keying certificates
Challenge Phrase	A secret phrase chosen by a Certificate Applicant during enrollment for a Certificate. When issued a Certificate, the Certificate Applicant becomes a Subscriber and a CA or RA can use the Challenge Phrase to authenticate the Subscriber when the Subscriber seeks to revoke the Subscriber's Certificate.
Compliance Audit	A periodic audit that a Processing Center, Service Center or Managed PKI Customer undergoes to determine its conformance with standards that apply to it.
Compromise	A violation (or suspected violation) of a security policy, in which an unauthorized disclosure of, or loss of control over, sensitive information may have occurred. With respect to private keys, a Compromise is a loss, theft, disclosure, modification, unauthorized use, or other compromise of the security of such private key.
Cyprus National eID	Refers to an Authentication Certificate and an EU Qualified Certificate for electronic signature provided to Cypriot Citizens
Domain Name	The label assigned to a node in the Domain Name System
eIDAS	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.
Electronic Signature	Data in electronic form which are attached to or logically associated with other electronic data and which is used by the signatory to sign.
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.
Intellectual Property Rights	Rights under one or more of the following: any copyright, patent, trade secret, trademark, and any other intellectual property rights.
Intermediate Certification Authority (Intermediate CA)	A Certification Authority whose Certificate is located within a Certificate Chain between the Certificate of the root CA and the Certificate of the Certification Authority that issued the end-user Subscriber's Certificate.

Stadiou 1, 2571 Nicosia
T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a>

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



Term	Definition
Key Generation Ceremony	A procedure whereby a CA's or RA's key pair is generated, its private key is transferred into a cryptographic module, its private key is backed up, and/or its public key is certified.
Local QSCD	USB token or smart card type of QSCD
Manual Authentication	A procedure whereby Certificate Applications are reviewed and approved manually one-by-one by an Administrator using a webbased interface.
Non-repudiation	An attribute of a communication that provides protection against a party to a communication falsely denying its origin, denying that it was submitted, or denying its delivery. Denial of origin includes the denial that a communication originated from the same source as a sequence of one or more prior messages, even if the identity associated with the sender is unknown. Note: only adjudication by a court, arbitration panel, or other tribunal can ultimately prevent repudiation. For example, a digital signature, authentication verified with reference to a STN Certificate may provide proof in support of a determination of Non-repudiation by a tribunal, but does not by itself constitute Non-repudiation.
Offline CA	PCAs Issuing Root CAs and other designated CAs that are maintained offline for security reasons in order to protect them from possible attacks by intruders by way of the network. These CAs do not directly sign end user Subscriber Certificates.
Online CA	CAs that sign end user Subscriber Certificates are maintained online so as to provide continuous signing services.
Online Certificate Status Protocol (OCSP)	A protocol for providing Relying Parties with real-time Certificate status information.
Operational Period	The period starting with the date and time a Certificate is issued (or on a later date and time certain if stated in the Certificate) and ending with the date and time on which the Certificate expires or is earlier revoked.
PKCS #10	Public-Key Cryptography Standard #10 developed by RSA Security Inc., which defines a structure for a Certificate Signing Request.
PKCS #12	Public-Key Cryptography Standard #12 developed by RSA Security Inc., which defines a secure means for the transfer of private keys.
Private key	The key of a key pair that is kept secret by the holder of the key pair, and that is used to create a qualified certificate or to decrypt electronic records or files that were encrypted with the corresponding public key

Stadiou 1, 2571 Nicosia
T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a>

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



Term	Definition
Primary Certification Authority (PCA)	A CA that acts as a root CA and issues Certificates to CAs subordinate to it.
Processing Center	The JCC PAYMENT SYSTEMS site that creates a secure facility housing, among other things, the cryptographic modules used for the issuance of Certificates.
Public Key	The key of a key pair that may be publicly disclosed by the holder of corresponding private key and that is used by Relying Party to verify a qualified certificate created with the holder's corresponding private key and/or to encrypt messages so that they can be decrypted only with the holder's corresponding private key.
Public Key Infrastructure (PKI)	The architecture, organization, techniques, practices, and procedures that collectively support the implementation and operation of a Certificate-based public key cryptographic system. The JCC Payment Systems PKI consists of systems that collaborate to provide and implement the JCC Payment Systems PKI.
QTSP Policy Officer	The person within JCC PAYMENT SYSTEMS responsible for promulgating this policy.
Qualified electronic seal	Is an advanced electronic seal that is created by a qualified electronic seal creation device and is based on a qualified certificate for electronic seals.
Qualified electronic Signature	An advanced electronic signature that is created by a qualified electronic signature creation device, and is based on a qualified certificate for electronic signatures;
Qualified Certificate	Qualified Certificate is a Certificate issued by a CA which has been accredited and supervised by authorities designated by an EU member state and meets the requirements of eIDAS.
Qualified signature creation device (QSCD)	A device that is responsible for qualifying digital signatures by using specific hardware and software that ensures that the signatory only has control of their private key. Qualified electronic signature or seal creation devices meet the requirements of eIDAS.
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.
Registration Authority (RA)	An entity approved by a CA that is responsible for identification and authentication of subjects of certificates. Additionally an RA can assist in the certificate application process or revocation process or both.
Relying Party	An individual or organization that acts in reliance on a certificate.

Stadiou 1, 2571 Nicosia
T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a>

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



Term	Definition
Remote QSCD	Server based HSM that is used for central generation and usage of Subscriber private keys.
Revocation	Permanent termination of the certificate's validity before the expiry date indicated in the certificate
Root CA	Certification authority which is at the highest level within TSP's domain and which is used to sign subordinate CA(s).
RSA	A public key cryptographic system invented by Rivest, Shamir, and Adelman.
Secret Share	A portion of a CA private key or a portion of the activation data needed to operate a CA private key under a Secret Sharing arrangement.
Secret Sharing	The practice of splitting a CA private key or the activation data to operate a CA private key in order to enforce multi-person control over CA private key operations
Secure Sockets Layer (SSL)	The industry-standard method for protecting Web communications developed by Netscape Communications Corporation. The SSL security protocol provides data encryption, server authentication, message integrity, and optional client authentication for a Transmission Control Protocol/Internet Protocol connection.
Subordinate CA	Certification authority who's Certificate is signed by the Root CA, or another Subordinate CA. A subordinate CA normally either issues end user certificates or other subordinate CA certificates.
Subject	The subject can be: a) a natural person; b) a natural person identified in association with a legal person; c) a legal person (that can be an Organization or a unit or a department identified in association with an Organization);
Subscriber	An entity subscribing with Trust Service Provider who is legally bound to any Subscriber obligations.
Supervisory Body	The authority which is designated by member state to carry out the supervisory activities over Trust Services and Trust Service Providers under eIDAS in the territory of that member state.
Trust Service	Electronic service for: creation, verification, and validation of digital signatures, authentication and related certificates; creation, verification, and validation of time-stamps and related certificates; registered delivery and related certificates;

Stadiou 1, 2571 Nicosia Page **91** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use

Electronic Identity (eID) **Date:** 03 November 2025

Version: 1.4

**Document Owner:** QTSP Policy Officer



Term	Definition
	creation, verification and validation of certificates for website authentication; or preservation of digital signatures, authentication or certificates related to those services.
Trust Service Provider	An entity that provides one or more Trust Services.
Trusted Person	An employee, contractor, or consultant of an entity, responsible for managing infrastructural trustworthiness of the entity, its products, its services, its facilities, and/or its practices.
Trusted Position	The positions within JCC PAYMENT SYSTEMS that must be held by a Trusted Person.
Trustworthy System	Computer hardware, software, and procedures that are reasonably secure from intrusion and misuse; provide a reasonable level of availability, reliability, and correct operation; are reasonably suited to performing their intended functions; and enforce the applicable security policy. A trustworthy system is not necessarily a "trusted system" as recognized in classified government nomenclature.
General Terms and Conditions for Use of Certificates	A binding document setting forth the terms and conditions under which an a natural or legal person acts as a Subscriber or as a Relying Party and JCC PAYMENT SYSTEMS provides the corresponding Trust Services.
Valid Certificate	A Certificate that passes the validation procedure specified in RFC 5280.
Validity Period	The period of time measured from the date when the Certificate is issued until the Expiry Date.

Stadiou 1, 2571 Nicosia Page **92** of **92** T: +357 22 868500 email: <a href="mailto:trust-services@jcc.com.cy">trust-services@jcc.com.cy</a> Public Use