



CONSIGLIO
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Consiglio Nazionale del Notariato

**Qualified Certification Authority
Certification Practice Statement**

Version 1.0

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TABLE OF CONTENTS

SCOPE 12

I. REFERENCES TO THE ITALIAN RULES OF LAW	12
II. REFERENCE TO STANDARDS AND LAW REQUIRED DOCUMENTS	13
Bibliography	14
DEFINITIONS AND ABBREVIATIONS.....	15
Definitions	15
Abbreviations.....	19
1. INTRODUCTION.....	21
1.1 Overview.....	21
1.2 Identification	22
1.3 PKI Participants.....	23
1.3.1 Certification Authorities.....	23
1.3.2 Registration Authorities.....	23
1.3.3 Subscribers.....	23
1.3.4 Relying Parties	24
1.3.5 Other Participants	24
1.4 Certificate Usage	24
1.4.1 Appropriate Certificate Uses	24
1.4.2 Prohibited Certificate Uses	24
1.5 Policy Administration.....	25
1.5.1 Organization administering the document.....	25
1.5.2 Contact person	25
1.5.3 Person Determining CPS Suitability for the Policy	25
1.5.4 CPS Approval Procedures	25
1.6 Definitions and acronyms	25
1.7 Additional Obligations related to the Italian law	26
1.7.1 CA Obligations	26
1.7.2 Client Organizations Obligations - CND.....	27
2. PUBLICATION AND REPOSITORY RESPONSIBILITIES.....	27
2.1 Repositories.....	27
2.2 Publication of Certification Information.....	27
2.2.1 Certificate Directory.....	27

Issued by:	Consiglio Nazionale del Notariato	Document type:	Certification Statement	Practice
		Doc code:	CPS_CNN_1_0	
Document Title:	<i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>		Version:	1.0
			Attachments:	

2.2.2	IETF RFC 3647 related documents publications.....	28
2.2.3	ETSI TS 101 456 publication	28
2.2.4	Italian rules of law related documents publications.....	28
2.3	Frequency of Publication	28
2.4	Access Control	28
3.	IDENTIFICATION AND AUTHENTICATION	29
3.1	Naming	29
3.1.1	Types of Names.....	29
3.1.1.1	CA Name	29
3.1.1.2	Subject's Name	29
3.1.2	Need for Names to be meaningful	30
3.1.3	Anonymity or Pseudonymity of Subscribers.....	30
3.1.4	Rules for interpreting various Name Forms	30
3.1.5	Uniqueness of Names.....	30
3.1.6	Recognition, Authentication and Role of Trademarks	30
3.2	Initial Identity validation	31
3.2.1	Proof of Possession of Private Key	31
3.2.1.1	Subjects registration and certification.....	31
3.2.1.2	Other Subject Types.....	31
3.2.1.3	Additional Provision – Subject's SSCD Management.....	31
3.2.1.4	Additional Provision – Codes for certificate emergency suspension by the CND President.....	32
3.2.2	Authentication of Organization Identity	32
3.2.3	Authentication of Individual Identity	32
3.2.3.1	Professional qualifications	33
3.2.3.2	Association with a Legal Person.....	33
3.2.3.3	Subject belonging to a Client Organization.....	33
3.2.4	Non-Verified Subscriber Information	33
3.2.5	Validation of Authority	33
3.2.6	Criteria for Interoperation	34
3.3	Identification and Authentication for Re-Key Requests.....	34
3.3.1	Identification and Authentication for Routine Re-Key.....	34
3.3.2	Identification and Authentication for Re-Key After Revocation	34
3.3.3	Identification and Authentication for Revocation Request.....	34
4.	CERTIFICATE LIFE-CYCLE OPERATIONAL REQUIREMENTS.....	35
4.1	Certificate Application	35
4.1.1	Who Can Submit a Certificate Application	35
4.1.2	Enrollment Process and Responsibilities	35

Issued by:	Consiglio Nazionale del Notariato	Document type:	Certification Statement	Practice Statement
		Doc code:	CPS_CNN_1_0	
Document Title:	<i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>		Version:	1.0
			Attachments:	

4.1.2.1	Notary registration	35
4.1.2.2	CND President and CND Senior Counselor registration	35
4.1.2.3	CNN President and CNN Senior Counselor registration	35
4.2	Certificate Application processing	36
4.2.1	Performing Identification and Authentication Functions.....	36
4.2.2	Approval or Rejection of Applications	36
4.2.3	Time to Process Certificate Applications	36
4.3	Certificate Issuance.....	36
4.3.1	CA Actions During Certificate Issuance	36
4.3.2	Notifications to Subscriber by the CA of Issuance of Certificate	37
4.4	Certificate Acceptance.....	37
4.4.1	Conduct Constituting Certificate Acceptance	37
4.4.2	Publication of the Certificate by the CA	37
4.4.3	Notification of Certificate Issuance by the CA to Other Entities	37
4.5	Key Pair and Certificate Usage	37
4.5.1	Subscriber Private Key and Certificate Usage	37
4.5.1.1	Signature Issuance Application and Document formats	38
4.5.1.2	Signature Issuance Workstation	38
4.5.2	Relying Party Public Key and Certificate Usage.....	38
4.5.2.1	Notary acting as Relying Party	38
4.5.2.2	Third Parties acting as Relying Party in relation with CNN CA issued certificates	38
4.5.2.3	Cautions when referring to CRLs.....	38
4.6	Certificate Renewal	39
4.6.1	Circumstances for Certificate Renewal.....	39
4.6.2	Who May Request Renewal.....	39
4.6.3	Processing Certificate Renewal Requests	39
4.6.4	Notification of New Certificate Issuance to Subscriber	39
4.6.5	Conduct Constituting Acceptance of a Renewal Certificate	39
4.6.6	Publication of the Renewal Certificate by the CA	40
4.6.7	Notification of Certificate Issuance by the CA to Other Entities	40
4.7	Certificate Re-Key.....	40
4.7.1	Circumstances for Certificate Re-Key.....	40
4.7.1.1	End User Certificate Re-Key	40
4.7.2	Processing Certificate Re-Keying Requests.....	40
4.7.3	Notification of New Certificate Issuance to Subscriber	40
4.7.4	Conduct Constituting Acceptance of a Re-Keyed Certificate	40
4.7.5	Publication of the Re-Keyed Certificate by the CA.....	40
4.7.6	Notification of Certificate Issuance by the CA to Other Entities	40
4.8	Certificate Modification	40
4.8.1	Circumstances for Certificate Modification.....	40

Issued by:	Consiglio Nazionale del Notariato	Document type:	Certification Statement	Practice Statement
		Doc code:	CPS_CNN_1_0	
Document Title:	<i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>		Version:	1.0
			Attachments:	

4.8.2	Who May Request Certificate Modification	40
4.8.3	Processing Certificate Modification Requests	41
4.8.4	Notification of New Certificate Issuance to Subscriber	41
4.8.5	Conduct Constituting Acceptance of Modified Certificate	41
4.8.6	Publication of the Modified Certificate by the CA	41
4.8.7	Notification of Certificate Issuance by the CA to Other Entities	41
4.9	Certificate Revocation and Suspension	41
4.9.1	Circumstances for Revocation.....	41
4.9.1.1	Request for revocation submitted by the Notary.....	41
4.9.1.2	Request for revocation submitted by the CND/CNN President.....	42
4.9.1.3	Request for revocation enacted autonomously by the CNN	42
4.9.1.4	Used Revocation Reason Codes	42
4.9.2	Who Can Request Revocation.....	43
4.9.3	Procedure for Revocation or Suspension Request.....	43
4.9.3.1	Basic Stipulations for Revocation Requests	43
4.9.3.2	Revocation Request subscribed with handwritten signature.....	43
4.9.3.3	Revocation Request subscribed with digital signature	44
4.9.3.4	Revocation Request through Contact Center.....	44
4.9.3.5	Revocation and suspension service availability	44
4.9.4	Revocation Request Grace Period	45
4.9.5	Time Within Which CA Must Process the Revocation Request	45
4.9.6	Revocation Checking Requirements for Relying Parties	45
4.9.7	CRL Issuance Frequency.....	46
4.9.8	Maximum Latency for CRLs.....	46
4.9.9	On-Line Revocation/Status Checking Availability	46
4.9.10	On-Line Revocation Checking Requirements	46
4.9.11	Other Forms of Revocation Advertisements Available	46
4.9.12	Special Requirements re Key Compromise	47
4.9.13	Circumstances for Suspension	47
4.9.14	Who Can Request Suspension	47
4.9.15	Procedure for Suspension Request.....	47
4.9.16	Limits on Suspension Period.....	47
4.9.17	Certificate Reactivation after Suspension – Additional section.....	47
4.10	Certificate Status Services	48
4.10.1	Operational Characteristics.....	48
4.10.2	Service Availability.....	48
4.10.3	Operational Features	48
4.11	End of Subscription	48
4.12	Key Escrow and Recovery	48
4.12.1	Key Escrow and Recovery Policy and Practices.....	49

Issued by:	Consiglio Nazionale del Notariato	Document type:	Certification Statement	Practice
		Doc code:	CPS_CNN_1_0	
Document Title:	<i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version:	1.0	Attachments:

4.12.2 Session Key Encapsulation and Recovery Policy and Practices 49

5. FACILITY, MANAGEMENT, AND OPERATIONAL CONTROLS 49

5.1 Physical Controls 49

- 5.1.1 Site Location and Construction 49
- 5.1.2 Physical Access 49
- 5.1.3 Power and Air Conditioning 50
- 5.1.4 Water Exposures 50
- 5.1.5 Fire Prevention and Protection 50
- 5.1.6 Media Storage 50
- 5.1.7 Waste Disposal 50
- 5.1.8 Off-Site Backup 50

5.2 Procedural Controls 51

- 5.2.1 Trusted Roles 51
- 5.2.2 Number of Persons Required per Task 51
- 5.2.3 Identification and Authentication for Each Role 51
- 5.2.4 Roles Requiring Separation of Duties 52

5.3 Personnel Controls 52

- 5.3.1 Qualifications, Experience, and Clearance Requirements 52
- 5.3.2 Background Check Procedures 52
- 5.3.3 Training Requirements 53
- 5.3.4 Retraining Frequency and Requirements 53
- 5.3.5 Job Rotation Frequency and Sequence 53
- 5.3.6 Sanctions for Unauthorized Actions 53
- 5.3.7 Independent Contractor Requirements 53
- 5.3.8 Documentation Supplied to Personnel 54

5.4 Audit Logging Procedures 54

- 5.4.1 Types of Events Recorded 54
- 5.4.2 Frequency of Processing Log 54
- 5.4.3 Retention Period for Audit Log 55
- 5.4.4 Protection of Audit Log 55
- 5.4.5 Audit Log Backup Procedures 55
- 5.4.6 Audit Collection System (Internal vs. External) 55
- 5.4.7 Notification to Event-Causing Subject 55
- 5.4.8 Vulnerability Assessments 56

5.5 Records Archival 56

- 5.5.1 Types of Records Archived 56
- 5.5.2 Retention Period for Archive 56
- 5.5.3 Protection of Archive 57
 - 5.5.3.1 Who can view the archive 57
 - 5.5.3.2 Integrity protection of the archive - modification 57
 - 5.5.3.3 Integrity protection of the archive - modification 57

Issued by:	Consiglio Nazionale del Notariato	Document type:	Certification Statement	Practice Statement
		Doc code:	CPS_CNN_1_0	
Document Title:	<i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>		Version:	1.0
			Attachments:	

5.5.3.4	Protection against archive deterioration.....	57
5.5.3.5	Protection against obsolescence	57
5.5.4	Archive Backup Procedures	57
5.5.4.1	Electronic Information Archive.....	58
5.5.4.2	Paper Information Archive	58
5.5.5	Requirements for Time-Stamping of Records	58
5.5.6	Archive Collection System (Internal or External).....	58
5.5.7	Procedures to Obtain and Verify Archive Information.....	58
5.6	CA Key Changeover.....	59
5.7	Compromise and Disaster Recovery.....	59
5.7.1	Incident and Compromise Handling Procedures	59
5.7.2	Computing Resources, Software, and/or Data Are Corrupted.....	59
5.7.3	Entity (CNN) Private Key Compromise Procedures.....	60
5.7.3.1	CNN CA Certificates Signing Key Device Failure.....	60
5.7.3.2	CNN CA Certificates Signing Key Compromise	60
5.7.4	Disaster Recovery Capabilities After a Disaster.....	60
5.8	CA Termination	61
6.	TECHNICAL SECURITY CONTROLS	61
6.1	Key Pair Generation and Installation	61
6.1.1	Key Pair Generation.....	61
6.1.1.1	CNN CAs Key Pair Generation	61
6.1.1.2	Subjects	61
6.1.1.3	Cross certified CAs	62
6.1.2	Private Key Delivery to Subscriber	62
6.1.3	Public Key Delivery to Certificate Issuer	62
6.1.4	CA Public Key Delivery to Relying Parties.....	62
6.1.5	Key Sizes.....	62
6.1.6	Public Key Parameters Generation and Quality Checking.....	62
6.1.7	Key Usage Purposes (as per X.509 v3 Key Usage Field).....	63
6.1.7.1	CNN CAs keys usage	63
6.1.7.2	Subjects keys usage	63
6.2	Private Key Protection and Cryptographic Module Engineering Controls	63
6.2.1	Cryptographic Module Standards and Controls	63
6.2.2	Private Key (n out of m) Multi-Person Control	63
6.2.3	Private Key Escrow.....	63
6.2.4	Private Key Backup.....	64
6.2.5	Private Key Archival.....	64
6.2.6	Private Key Transfer Into or From a Cryptographic Module	64
6.2.7	Private Key Storage on Cryptographic Module.....	64

Issued by:	Consiglio Nazionale del Notariato	Document type:	Certification Statement	Practice Statement
		Doc code:	CPS_CNN_1_0	
Document Title:	<i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>		Version:	1.0
			Attachments:	

6.2.8	Method of Activating Private Key	64
6.2.9	Method of Deactivating Private Key.....	64
6.2.10	Method of Destroying Private Key	65
6.2.11	Cryptographic Module Rating	65
6.3	Other Aspects of Key Pair Management	65
6.3.1	Public Key Archival	65
6.3.2	Certificate Operational Periods and Key Pair Usage Periods	65
6.4	Activation Data	65
6.4.1	Activation Data Generation and Installation	65
6.4.2	Activation Data Protection.....	65
6.4.3	Other Aspects of Activation Data	65
6.5	Computer Security Controls.....	66
6.5.1	Specific Computer Security Technical Requirements	66
6.5.2	Computer Security Rating	66
6.6	Life Cycle Technical Controls	66
6.6.1	System Development Controls.....	66
6.6.2	Security Management Controls	66
6.6.3	Life Cycle Security Controls	67
6.7	Network Security Controls.....	67
6.8	Time-Stamping	67
7.	CERTIFICATE, CRL, AND OCSP PROFILES	67
7.1	Certificate Profile.....	67
7.1.1	Version Number(s)	68
7.1.2	Certificate Extensions	68
7.1.3	Algorithm Object Identifiers	70
7.1.4	Name Forms	70
7.1.5	Name Constraints.....	70
7.1.6	Certificate Policy Object Identifier	71
7.1.7	Usage of Policy Constraints Extension	71
7.1.8	Policy Qualifiers Syntax and Semantics.....	71
7.1.9	Processing Semantics for the Critical Certificate Policies Extension.....	71
7.2	CRL Profile	71
7.2.1	Version Number(s)	71
7.2.2	CRL and CRL Entry Extensions.....	71
7.2.2.1	CRL Extensions	71
7.2.2.2	CRL Entry Extensions.....	72
7.3	OCSP Profile.....	72
7.3.1	Version Number(s)	72
7.3.2	OCSP Extensions	72

Issued by:	Consiglio Nazionale del Notariato	Document type:	Certification Statement	Practice
		Doc code:	CPS_CNN_1_0	
Document Title:	<i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>		Version:	1.0
			Attachments:	

8. COMPLIANCE AUDIT AND OTHER ASSESSMENTS	72
8.1 Frequency and Circumstances of Assessment	72
8.2 Identity/Qualifications of Assessor	73
8.3 Assessor's Relationship to Assessed Entity	73
8.4 Topics Covered by Assessment	73
8.5 Actions Taken as a Result of Deficiency	74
8.6 Communications of Results	74
9. OTHER BUSINESS AND LEGAL MATTERS	74
9.1 Fees	74
9.1.1 Certificate Issuance or Renewal Fees	74
9.1.2 Certificate Access Fees	74
9.1.3 Revocation or Status Information Access Fees	74
9.1.4 Fees for Other Services.....	74
9.1.5 Refund Policy.....	74
9.2 Financial Responsibility	75
9.2.1 Insurance Coverage	75
9.2.2 Other Assets	75
9.2.3 Insurance or Warranty Coverage for End-Entities	75
9.3 Confidentiality of Business Information	75
9.3.1 Scope of Confidential Information.....	75
9.3.2 Information Not Within the Scope of Confidential Information.....	75
9.3.3 Responsibility to Protect Confidential Information.....	75
9.4 Privacy of Personal Information	75
9.4.1 Privacy Plan.....	75
9.4.2 Information Treated as Private	76
9.4.3 Information Not Deemed Private	76
9.4.4 Responsibility to Protect Private Information.....	76
9.4.5 Notice and Consent to Use Private Information.....	76
9.4.6 Disclosure Pursuant to Judicial or Administrative Process	76
9.4.7 Other Information Disclosure Circumstances.....	76
9.5 Intellectual Property rights	76
9.6 Representations and Warranties	76
9.6.1 CA Representations and Warranties	77
9.6.2 RA Representations and Warranties	77
9.6.3 Subscriber Representations and Warranties	77
9.6.4 Relying Party Representations and Warranties	77
9.6.5 Representations and Warranties of Other Participants	77
9.7 Disclaimers of Warranties	77
9.8 Limitations of Liability	77

Issued by:	Consiglio Nazionale del Notariato	Document type:	Certification Statement	Practice
		Doc code:	CPS_CNN_1_0	
Document Title:	<i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>		Version:	1.0
			Attachments:	

9.9 Indemnities.....	77
9.10 Term and Termination.....	78
9.10.1Term.....	78
9.10.2Termination.....	78
9.10.3Effect of Termination and Survival.....	78
9.11 Individual Notices and Communications with Participants.....	78
9.12 Amendments.....	78
9.12.1Procedure for Amendment.....	78
9.12.2Notification Mechanism and Period.....	78
9.12.3Circumstances Under Which OID Must be Changed.....	78
9.13 Dispute Resolution Provisions.....	79
9.14 Governing Law.....	79
9.15 Compliance with Applicable Law.....	79
9.16 Miscellaneous Provisions.....	79
9.16.1Entire Agreement.....	79
9.16.2Assignment.....	79
9.16.3Severability.....	79
9.16.4Enforcement (Attorney's Fees and Waiver of Rights).....	79
9.17 Other Provisions.....	79

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

SCOPE

This document is the Certification Practice Statement – CPS – describing the practices implemented by the CNN CA in issuing Qualified Certificates to be used to generate Qualified Signatures in compliance with the Italian rules of law mentioned in section i.

This CPS implements the provisions specified in the QCP ETSI TS 101 456 [17].

I. REFERENCES TO THE ITALIAN RULES OF LAW

Law 89/1913 – Notary law	Law N. 89 of 16 February 1913 - (published on the Gazzetta Ufficiale della Repubblica Italiana No 55 of 7 March 1913) – Arrangement of Notaries and of Notary Archives
Dlgs No 196/2003 ¹	Legislative Decree No 196 of 30/6/2003 – “Code for protection of personal data”, published on the Gazzetta Ufficiale della Repubblica Italiana No 174 of 29/7/2003
Dlgs 82/2005	Legislative Decree n. 82 of 7 March 2005 (published in the Gazzetta Ufficiale della Repubblica Italiana n. 112 of 16 May 2005), as amended by Legislative Decree n. 159 of 4 April 2006 (published on the Gazzetta Ufficiale della Repubblica Italiana n. 99 of 29 April 2006): “Code of the digital administration”
DPR 68/2005	Decree by the President of the Republic No 68 of 11 February 2005 – Rules bearing provisions for the utilisation of the Registered E-Mail, as per art. 27 of law No 3 of 16 January 2003 – (published on the Gazzetta Ufficiale della Repubblica Italiana n. 97 of 28 April 2005)
DPCM of 13/1/2004	Decree by the President of the Counsel of Ministers of 13 January 2004 – “Technical Rules for the creation, transmission, storage, duplication, reproduction and validation, also related to timing validation, of electronic documents”, published on the Gazzetta Ufficiale della Repubblica Italiana No. 98 of 27 Aprile 2004
DPCM 12 October 2007	Decree by the President of the Counsel of Ministers of 13 January 2004 – “Deferment of the time that authorizes the self-declaration regarding the compliance with the security requirements laid down in article 13(4) of the DPCM 30 October 2003.”
CNIPA Del 4/2005	CNIPA Deliberation N. 4 of 17 February 2005 – “Rules to acknowledge and verify an electronic document” - published on the Gazzetta Ufficiale della Repubblica Italiana n. 51 of 3 March 2005.
CNIPA/CR/48	CNIPA Circular letter N. 48 of 6 September 2005 – “Modality to apply for insertion

¹ Dlgs 196/2003 implements EU Directive 46/1995/EC

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Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority - Certification Practice Statement</i>	Version: 1.0 Attachments:	

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CNIPA Del 11/2004	CNIPA Deliberation No 11 of 19 February 2004 – "Technical rules for reproduction and conservation of documents on optical media suitable to guarantee their conformity documents to the original – Ref. to Art. 6 (1) and (2) of the Decree by the President of the Republic No 445 of 28 December 2000 - published on the Gazzetta Ufficiale della Repubblica Italiana No 57 of 9 March 2004.

II. REFERENCE TO STANDARDS AND LAW REQUIRED DOCUMENTS

Some sections of this document make reference to provisions of the following documents that, therefore, become provisions of this document.

- [1] ISO/IEC 9594-2:2005 - INTERNATIONAL STANDARD ISO/IEC 9594-2:2005 - Information technology — Open Systems Interconnection — The Directory: Models
- [2] ISO/IEC 9594-8:2005 - INTERNATIONAL STANDARD ISO/IEC 9594-8:2005 – Information technology – Open Systems Interconnection – The Directory: Public-key and attribute certificate frameworks
- [3] ISO/IEC 13335 - Information technology — Guidelines for the management of IT Security
- [4] ISO/IEC 27001 - Information technology — Security techniques — Information security management systems — Requirements
- [5] ISO/IEC 27002 - Information technology — Security techniques — Code of practice for information security management
- [6] Manuale Operativo – published at <http://ca.notariato.it>
- [7] Piano della Sicurezza – internal use document
- [8] RFC 1777 – Lightweight Directory Access Protocol, 1995
- [9] RFC 2119 - Key words for use in RFCs to Indicate Requirement Levels
- [10] RFC 2251 - Lightweight Directory Access Protocol (v3) – 1997
- [11] RFC 4510 - Lightweight Directory Access Protocol (LDAP) Technical Specification Road Map - 2006
- [12] RFC 2314 - PKCS #10: Certification Request Syntax Version 1.5, March 1998
- [13] RFC 3280 - Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile, April 2002.
- [14] RFC 3647 - Internet X.509 Public Key Infrastructure Certificate Policy and Certification Practices Framework – 2003
- [15] RFC 2828 – Internet Security Glossary - 2000
- [16] RFC 3739 - Internet X.509 Public Key Infrastructure Qualified Certificates Profile, March 2004.
- [17] ETSI TS 101 456 – Policy requirements for certification authorities issuing qualified certificates
- [18] ETSI TS 101 862 – Qualified Certificate Profile
- [19] ETSI TS 102 023 – Policy requirements for time-stamping authorities
- [20] ETSI TS 102 280 – X.509 V.3 Certificate Profile for Certificates Issued to Natural Persons
- [21] CEN/ISSS CWA 14171:2003 - General Guidelines for Electronic Signature Verification
- [22] RFC 4510 - Lightweight Directory Access Protocol (LDAP): The Protocol
- [23] RFC 2560 - X.509 Internet Public Key Infrastructure - Online Certificate Status Protocol - OCSP

Issued by: <i>Consiglio Nazionale del Notariato</i>	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

Bibliography

1999/93/EC	Directive 1999/93/EC of the European Parliament and of the Council of 13 December 1999 on a Community framework for electronic signatures
95/46/EC	Directive 95/46/EC of the European Parliament and of the Council of 24 October 1995 on the protection of individuals with regard to the processing of personal data and on the free movement of such data

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

DEFINITIONS AND ABBREVIATIONS

Definitions

Term	Meaning	Reference
Accredited CA	CA that, as per Directive 1999/93/EC Art.3(2), wins accreditation at the CNIPA, in abidance by Dlgs 82/2005 art. 29.	
Blind envelope	Envelope inside which a text (e.g. a Personal Identification Number – PIN) is printed in a way that it cannot be read from outside. This envelope also has a tamper-evident sealing.	
Centro Nazionale per l'Informatica nella Pubblica Amministrazione	The National Center for IT in the Public Administration (CNIPA, Centro Nazionale per l'informatica nella Pubblica Amministrazione) was established according to Legislative Decree n. 39/93 (G.U. No. 42 del 20/2/93, in Italian). According to the law, its tasks are promoting, coordinating, planning and controlling the development of information systems within the government central organizations and agencies, through their standardisation, interconnection and integration.	http://www.cnipa.it/
Certificate	See “public-key certificate” – “PKC”	
Certificate Policy	A named set of rules that indicates the applicability of a certificate to a particular community and/or class of application with common security requirements.	ISO 9594-8 [2] RFC 3647 [14]
Certificate Revocation List	A signed list indicating a set of certificates that are no longer considered valid by the certificate issuer.	ISO 9594-8 [2]
Certification Authority	An authority trusted by one or more users to create and assign public key certificates.	Certification Authority
Certification Practice Statement	A statement of the practices that a certification authority employs in issuing, managing, revoking, and renewing or re-keying certificates.	ISO 9594-8 [2]
Certification Service Provider	An entity or a legal or natural person who issues certificates or provides other services related to electronic signatures.	Directive 1999/93/EC
Certifier	The entity that provides electronic signatures services or other services related to them.	Dlgs 82/2005

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

Term	Meaning	Reference
CNIPA Public list	See "Public List of Certifiers"	
Common Criteria	A security evaluation criteria that permits comparability between the results of independent security evaluations. The CC does so by providing a common set of requirements for the security functionality of IT products and for assurance measures applied to these IT products during a security evaluation. These IT products may be implemented in hardware, firmware or software.	ISO/IEC 15408
Consiglio Nazionale Notarile	Italian National Notary Council.	
Consiglio Notarile Distrettuale	District Notary Council: the Notary District, the jurisdiction of which most often coincides with that of a Civil Court, governing the Notaries of that area. It is Chaired by a President who, as regards the CNN CA, fulfills all the related subjects registration obligations.	
Control log	The control log is made of all records automatically taken by the devices installed at the Certifier's facilities, whenever the relevant conditions in the present decree for such recording occur. Records may be taken separately on various supports even of different type.	DPCM 13/1/2004 Art. 31
District Notary Council	See "Consiglio Notarile Distrettuale"	
Digital signature	A peculiar qualified signature type built on a system based on a correlated cryptographic keys pair, one public and one private, that allows the owner by means of the private key and the recipient by means of the public key, respectively, to make known and to verify the origin and integrity of one electronic document, or of one electronic documents set.	Dlsg 82/2005 as modified by Dlgs 159/2006
Distinguished Name	The distinguished name of a given object is defined as that name which consists of the sequence of the RDNs of the entry which represents the object and those of all of its superior entries (in descending order).	ISO 9594-2 [1]– section 9.7
Firewall	An internetwork gateway that restricts data communication traffic to and from one of the connected networks (the one said to be "inside" the firewall) and thus protects that network's system resources against threats from the other network (the one that is said to be "outside" the firewall).	RFC 2828 [15]

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

Term	Meaning	Reference
Grace period	Minimum time period an initial verifier has to wait to allow any authorized entity to request a certificate revocation and the relevant revocation status provider to publish revocation status.	CWA 14171 [21]
Information Technology Security Evaluation Criteria	ITSEC is a structured set of criteria for evaluating computer security within products and systems.	www.itsec.gov.uk FAQ
Local Registration Authority	An entity that performs on behalf of the Registration Authority the operations related to the RA responsibility.	
Long term signature	Signatures that are expected to be verified beyond the signers' certificate expiration date and, possibly, even after the expiration date of the certificate of the signers' certificate-issuing CA.	CWA 14171
Manuale Operativo	Operating Manual – The operating manual lays down the procedures to be adopted by the Certifier in carrying out his own duties.	DPCM 13/1/2004 Art. 38
Piano della Sicurezza	Security Plan – The Security Plan specifies the security measures set in place by the Qualified Certifier to securely perform its task as such.	DPCM 13/1/2004 Art. 30
Posta Elettronica Certificata	Any electronic mail system that provides the sender evidences of shipment and of delivery of electronic documents.	DPR 68/2005
Public Key Certificate	The public key of a user, together with some other information, rendered unforgeable by digital signature with the private key of the certification authority which issued it.	ISO 9594–8 [2]
Public Key Infrastructure (PKI)	The infrastructure able to support the management of public keys able to support authentication, encryption, integrity or non-repudiation services.	ISO 9594–8 [2]
Public List of Certifiers	List of CAs accredited at CNIPA, that for each CA contains the basic identification data and the self-signed certificates.	DPCM 13/1/2004 Art. 41
Qualified CA (or "Qualified Certifier")	Certifier that issues qualified certificates.	Dlgs 82/2005 Art. 27
Qualified Certificate	Certificate which meets the requirements laid down in annex I (of the Directive 1999/93/EC) and is provided by a	Directive 1999/93/EC

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

Term	Meaning	Reference
	certification-service-provider who fulfils the requirements laid down in annex II (of the Directive 1999/93/EC).	
Qualified signature	An electronic signature, generated with an electronic procedure ensuring that it is uniquely linked to the signatory, is created using means that the signatory can maintain under his sole control, is linked to the data to which it relates in such a manner that any subsequent change of the data is detectable, which is based on a qualified certificate and is created by a secure-signature-creation device.	Dlgs 82/2005 as modified by Dlgs 159/2006
Registered E-Mail	See: "Posta Elettronica Certificata"	
Registration Authority	An entity that is responsible for one or more of the following functions: the identification and authentication of certificate applicants, the approval or rejection of certificate applications, initiating certificate revocations or suspensions under certain circumstances, processing subscriber requests to revoke or suspend their certificates, and approving or rejecting requests by subscribers to renew or re-key their certificates. Note: in this CPS the term "subscriber" is to be meant as "subject", consistently with ETSI TS 101 456 [17].	RFC 3647 [14]
Related CP	ETSI TS 101 456 [17]	
Relative distinguished name	A set of one or more attribute type and value pairs, each of which matches a distinct distinguished attribute value of the entry	ISO 9594-2 – [1]
Relying Party	A recipient of a certificate who acts in reliance on that certificate and/or any digital signatures verified using that certificate.	RFC 3647 [14]
Risk Analysis	the systematic process of estimating the magnitude of risks	ISO/IEC 13335 [3]
Risk Assessment	the process of combining risk identification, risk analysis and risk evaluation	ISO/IEC 13335 [3]
Secure Signature Creation Device	Signature-creation device which meets the requirements laid down in Annex III of Directive 1999/93/EC	
Security Policy	A set of rules and practices that specify or regulate how a system or organization provides security services to protect	RFC 2828 [15]

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

Term	Meaning	Reference
	sensitive and critical system resources	
Short term signatures	Signatures that are to be verified for a period of time that does not go beyond the signers' certificate expiration date.	CWA 14171 [21]
Subject	Entity identified in a certificate as the holder of the private key associated with the public key given in the certificate.	ETSI TS 101 456
Subscriber	Entity subscribing with a Certification Authority on behalf of one or more subjects Note: in the IETF RFC 3647 the term subscriber is used with the meaning of "subject" in ETSI TS 101 456	ETSI TS 101 456
Third party	The party which specifies any power of representation or other title relating to the subject's profession or office held. This is often referred to, in this document, as "Client Organization", when the subject belongs to this Organization, like in the case of relationship between employer and employee.	Dlgs 82/2005 Art. 28 (3)
Time-Stamping Authority	Authority that issues Time Stamp Tokens.	ETSI TS 102 023 [19]

Abbreviations

Abbreviation	Meaning	Reference
CNIPA	Centro nazionale per l'Informatica nella Pubblica Amministrazione <i>(National Center for IT in the Public Administration)</i>	
CA	Certification Authority	
CND	Consiglio Notarile Distrettuale	
CNN	Consiglio Nazionale del Notariato	
CP	Certificate Policy	RFC 3647 [14]
CPS	Certification Practice Statement	RFC 3647 [14]
CRL	Certificate Revocation List	ISO 9594-8 – 2005
CRN	Secret code, known only to a certificate owner (i.e. the related Notary), to be used by this person to authenticate him/her-self when requesting in emergency on the phone the revocation/suspension of this certificate.	

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice Statement
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

Abbreviation	Meaning	Reference
CRP	Secret code, known only to the President of a CND, to be used by this person to authenticate him/herself when requesting in emergency on the phone the revocation/suspension of a certificate issued to one Notary belonging to the same CND. Each certificate corresponds to one CRP.	
CSP	Certification Service Provider	EU Directive 1999/93/EC
DN	Distinguished Name	
DPCM	Decree by the President of the Council of Ministers	
ICT	Information and Communication Technology	
IDS	Intrusion Detection System	
IETF	Internet Engineering Task Force	www.ietf.org
ITSEC	Information Technology Security Evaluation Criteria	
LRA	Local Registration Authority	
OID	Object Identifier	
PEC	Posta Elettronica Certificata	DPR 68/2005
PIN	Personal Identification Number	
PKC	Public Key Certificate	
PKCS	Public Key Cryptography Standard	RSA Laboratories
PKI	Public Key Infrastructure	
PP	Protection profile	ISO 15408
QC	Qualified Certificate	
QCP	Qualified Certificate Policy	TS 101 456 [17]
RA	Registration Authority	
Related CP	Certificate Policy ETSI TS 101 456 [17], the OID of which is specified in subsection 7.1.6	
SP	Security Policy	
SSCD	Secure Signature Creation Device	Directive 1999/93/EC
TSA	Time Stamping Authority	ETSI TS 102 023 [19]

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

Abbreviation	Meaning	Reference
URL	Uniform Resource Locator	

1. INTRODUCTION

The Consiglio Nazionale del Notariato, hereinafter referred to also as CNN, is a Certification Service Provider, the Certification Authority (CA) of which is accredited under the Italian scheme kept by Centro Nazionale per l'Informatica nella Pubblica Amministrazione (CNIPA), as per art. 3.2 of Directive 1999/93/EC and in compliance of the Italian rules of law, namely of Dlgs 82/2005 and of the legal instruments related to its implementation.

As per the Italian rules of law, the CNN issues qualified certificates to subjects.

The CNN documents governing this CA are listed below.

1. PKI Standards based documents:
 - a) Certificate Policy (CP) for qualified subscription certificates (ETSI TS 101 456 [17])
 - b) Certification Practice Statement (CPS) for qualified subscription certificates (this document)
2. Law required documents:
 - a) Manuale Operativo (Operating Manual) [6] this is required by DPCM 13/1/2004 art. 38;
 - b) Piano per la Sicurezza (Security Plan) [7]; this is required by DPCM 13/1/2004 art. 30.
3. Security standards based documents:
 - a) Security Policy.

Note: the Piano per la Sicurezza and the Security Policy are confidential documents, not available to the public.

1.1 Overview

This Certification Practice Statement, hereinafter referenced to also as CPS:

- describes how CNN implements the technical, security and organizational requirements stipulated in the Qualified Certificate Policy ETSI TS 101 456 [17], relative to signature private key kept in an SSCD, the OID of which is specified in subsection 7.1.6;
- does not disclose confidential security related topics;
- is compliant with the Italian rules of law in force; more in detail: Dlgs 82/2005, DPCM 13/1/2004, CNIPA/CR/48;

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

- is consistent with the Manuale Operativo [6] (Operating Manual) and the Piano della Sicurezza (Security Plan) [7] of the CNN as deposited at CNIPA;
- is compliant with RFC 3647 [14].

In this Certification Practice Statement, keywords are used with the same meaning as in RFC 2119 [9] to Indicate Requirement Levels. In particular this RFC assigns to the following terms the meaning specified below.

1. MUST – This word, or the terms "REQUIRED" or "SHALL", mean that the definition is an absolute requirement of the specification.
2. MUST NOT – This phrase, or the phrase "SHALL NOT", mean that the definition is an absolute prohibition of the specification.
3. SHOULD – This word, or the adjective "RECOMMENDED", mean that there may exist valid reasons in particular circumstances to ignore a particular item, but the full implications must be understood and carefully weighed before choosing a different course.
4. SHOULD NOT – This phrase, or the phrase "NOT RECOMMENDED" mean that there may exist valid reasons in particular circumstances when the particular behavior is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behavior described with this label.
5. MAY – This word, or the adjective "OPTIONAL", mean that an item is truly optional.

This Certification Practice Statement applies to the following certificates issued by the CNN CA in accordance by the Italian rules of law:

- self-signed certificates of the CNN CA that issues qualified subscription certificates;
- Subjects' qualified subscription certificates;
- Cross-certificates issued to other CAs.

The Manuale Operativo [6] (in Italian), the ETSI CP [17], this CPS and other relevant ETSI ESI and CEN documents can be retrieved from the CA web site at the address specified in Subsection 1.2.

The Piano della Sicurezza for security reasons is confidential and is not publicly available.

1.2 Identification

The present document is the Certification Practice Statement of the following Qualified CA.

Qualified Certifier Name: Consiglio Nazionale del Notariato	Qualifier Certifier Address: via Flaminia 160, 00196 Roma
Legal Representative: CNN President pro tempore	
Telephone: +39-06362091	Fax: +39-063221594

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

Operating site: via Flaminia 160, 00196 Roma	E-mail address: certificazione@notariato.it
Internet address: http://ca.notariato.it	Call Center:
Certificate directory LDAP address: Ldap://ldap.ca.notariato.org	

Certification Practice Statement identifier: 0.4.0.1456.1.1

1.3 PKI Participants

This CPS applies to the PKI participants specified in the following subsections and it addresses PKI personnel, subscribers and relying parties as well as other involved entities, equipment (HW and SW), physical infrastructures, in whatever site these participants operate to perform services and activities related to the provision of subscription certificates in conformance with the above mentioned Italian rules of law and with the ETSI TS 101 456 [17].

1.3.1 Certification Authorities

This CPS applies to the Qualified Certification Service Provider (Certifier) CNN that issues to Notaries, acting as such or as CND or CNN President, qualified subscription certificates in compliance with the Italian rules of law and, therefore, with the European Parliament and Council Directive 1999/93/EC.

As required by the Italian rules of law, the CNN acts as a Root CA issuing self signed certificates for its public keys.

1.3.2 Registration Authorities

This CPS also applies to the Presidents of the Departmental Notary Councils (CND) that, supported by CND Operators as regards technical matters, act as the CNN CA LRAs as far as Notaries registration is concerned.

It also applies to the CNN President when it acts as master operator.

By means of the CND and of the CNN Presidents, the CNN CA fulfills its law-abiding obligations as set forth in the related CP. Therefore LRAs are bound to abide by such CA obligations.

1.3.3 Subscribers

This CPS applies to subscribers that can only be Notaries regularly appointed by the Minister of Justice. CND and CNN Presidents are also Notaries and, as such, subscribers.

All subscribers are presumed to use software products, supplied by the CA, in compliance with the related CP and this CPS.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

1.3.4 Relying Parties

Should any qualified subscription certificate issued to Notaries in compliance with the ETSI TS 101 456 [17] CP be revoked, the CNN CA will uphold, on the basis of this CPS, any verification of short and long term signatures performed by relying parties based on such certificate with valid CRLs or, where applicable, OCSP Responses demonstrating that at the time of receipt the involved certificates were neither revoked nor suspended.

It is up to the Relying Party's due diligence to provide documents with reliable time reference suitable to be used in case of dispute. Example of these time references are: Time Stamp Tokens issued by a Time Stamping Authority referred to by the Manuale Operativo of a CA accredited as per the Italian rules of law, transmission by means of the Italian Posta Elettronica Certificata, Italian Public Administration electronic logbooks, document storage held by a Public Officer (with the meaning per the Italian rules of law).

1.3.5 Other Participants

This CPS applies also to any external Company, like a Help Desk, providing services related to the CNN CA.

1.4 Certificate Usage

Certificates issued by the CNN Qualified CA are in compliance with this CPS and its related CP [17], and can only be used:

1. by Notaries to support qualified electronic signatures they issue with the corresponding private keys in the execution of their duty,
2. by Relying Parties to verify the same qualified electronic signatures in compliance with the Italian law.

Usage of these Certificates outside this set of rules will not upheld by the CNN Qualified CA.

1.4.1 Appropriate Certificate Uses

Certificate issued in compliance with this CPS and its related CP [17] can only be used by the physical persons to which they are issued.

In compliance with Art. 32(1) of Dlgs 82/2005, certificate owners are bound to make personal use of their signing device.

Where the signing key is declared (refer to item 0 of section 3.2.3) to be used in a specific automated signing procedure, as per DPCM 13/1/2004 art. 4 (2) and (3), that key pair and the related certificate SHALL be used exclusively for that purpose.

1.4.2 Prohibited Certificate Uses

Certificates issued in compliance with this CPS and its related CP [17] SHALL NOT be used by physical persons other than those to which they have been issued, nor they can be used for encrypting, authenticating, and for any other usage than issuing qualified electronic signature, consistently with the KeyUsage extension specified therein and in compliance with the Notary office.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice Statement
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

Where the signing key is not declared (refer to item 0 of section 3.2.3) to be used in a specific automated signing procedure, as per DPCM 13/1/2004 art. 4 (2) and (3), that key pair and the related certificate SHALL NOT be used for that purpose.

Where the signing key is declared (refer to item 0 of section 3.2.3) to be used in a specific automated signing procedure, as per DPCM 13/1/2004 art. 4 (2) and (3), that key pair and the related certificate SHALL NOT be used for other purposes.

1.5 Policy Administration

1.5.1 Organization administering the document

This Certification Practice Statement is issued under the responsibility of the Consiglio Nazionale del Notariato – CNN the data of which are specified in section 1.2.

1.5.2 Contact person

The Manager in charge of this Certification Practice Statement is:

Luigi D'Ardia
Via Flaminia 160
00196 Roma (ITALY)
Telephone: +39-0636209311
Fax No: +39-0632650077
e-mail: ldardia@notariato.it

1.5.3 Person Determining CPS Suitability for the Policy

The Manager in charge of this Certification Practice Statement has the responsibility to determine its suitability for the related Qualified Certificate Policy [17].

1.5.4 CPS Approval Procedures

This CPS is approved by the Manager in charge, upon formal endorsement by the other managers involved in the various PKI related activities.

Compliance with related CP is paramount for the approval.

1.6 Definitions and acronyms

Please refer to sections Definitions and abbreviations
Definitions.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

1.7 Additional Obligations related to the Italian law

This section, additional to the RFC 3647 [14] structure, is meant to address specific obligations related to the requirements set by the Italian rules of law as in section “i”.

1.7.1 CA Obligations

In addition the obligations specified in the related CP and throughout this document, the CNN, as a Qualified CA, complies with the requirements set by the Italian rules of law. In particular it shall:

1. Identify with certainty through its LRAs the certificate requester.
2. Ensure the reliability of time and date specified in the issued qualified certificates and CRLs.
3. Before entering the contractual relationship with a Notary to be issued a certificate to support his/her electronic signature, the CNN SHALL inform that person by a durable means of communication of the precise terms and conditions regarding the use of the certificate, including any limitations on its use, the existence and scope of the CNIPA managed accreditation scheme and of procedures for complaints and dispute settlement; such information are publicly available via the Operating Manual [6], published on the CNN website, and the Notary law.
4. Deal with personal data in abidance by the Directive 95/46/EC as implemented by the Dlgs 196/2003; this implies that the persons' data are collected directly from the involved person or else only upon explicit consensus received by the person such data refer to;

Note: differently from Directive 95/46/EC, that applies “personal data” only to physical persons, as per Dlgs 196/2003 the term “personal data” applies to both physical and legal persons.

5. Manage a reliable, timely and efficient certificate revocation and suspension service;
6. Archive for at least 20 (twenty) years the information related to the certificate and for at least 30 (thirty) years the information related to its owner; this term is longer than required by the Dlgs 82/2005 that is of 20 (twenty) years; where archival is in electronic form it SHALL abide by CNIPA Del. 11/2004.
7. Issue qualified certificates for the public keys correspondent to the private ones used by the CNIPA to sign the *Public List of Certifiers*.
8. Securely forward to the CNIPA the CNN self-signed certificates. The CNIPA:
 - adds them to the *Public List of Certifiers*,
 - signs the updated List and
 - delivers the updated List to all listed certifiers.
9. Timely publish in its repositories the latest Public List of Certifiers as soon as this is received from the CNIPA, and the certificates issued to the latest CNIPA public keys.

The CNN CA self-signed certificates are registered in the subjects' SSCDs.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

1.7.2 Client Organizations Obligations - CND

The only Client Organizations suitable to have agreements in place for delivery of certificates to their members are the CNDs, the Presidents of which are also the LRA in charge of abide by the obligations related to managing the Notaries as certificate owners on behalf of the CNN.

As such, every CND by means of its President, in addition to the obligations specified throughout this CPS, is required to:

1. request for a certificate revocation whenever the requisite for issuing it to its owner is no more valid, due, for example, to:
 - a. modification of the certificate data;
 - b. cessation of the CND relationship with the certificate owner, i.e. the involved Notary moves to another CND;
 - c. cessation of the Notary from his/her office.
2. inform the certificate owners at issue of all the security related topics regarding the digital signature.

2. PUBLICATION AND REPOSITORY RESPONSIBILITIES

2.1 Repositories

The CNN CA manages itself the repositories where its following information is published:

1. the certificates, with the exceptions further on specified as regards Disaster Recovery management, since the Disaster Recovery facilities are provided and managed by an external provider that is a Qualified CA listed in the Public List of Certifiers;
2. the Certificate Policy this CPS refers to (related CP [17]);
3. this Certification Practice Statement;
4. the "Manuale Operativo" [6] as deposited at the CNIPA;
5. the "Elenco Pubblico dei Certificatori" (*Public List of Certifiers*) published by the CNIPA.

ETSI and CEN/ISSS documents are available at their respective web sites.

2.2 Publication of Certification Information

2.2.1 Certificate Directory

The certificates Directory master copy, inaccessible from outside, is securely managed in systems installed on a network protected by suitable measures, such as firewalls, IDS, etc., located in safe rooms. Operational copies of the Directory are accessible through the Internet on a DMZ protected by a firewall.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

The data of the publicly accessible Directory copy is backed up and mirrored in different locations, among which the Disaster Recovery site, to ensure its continuous availability to the public.

In the Directory are published: the CNN self-signed certificates, the certificates the CNN issues to CNIPA, the CRLs and (where applicable) cross-certificates.

2.2.2 IETF RFC 3647 related documents publications

This CPS is published at the CNN URL: <http://ca.notariato.it/documentazione/CPSCNN.pdf>

2.2.3 ETSI TS 101 456 publication

The ETSI TS 101 456 [17], Qualified Certificate Policies, to which this CPS refers, is published, in addition to the ETSI site, also at the CNN URL: <http://ca.notariato.it/documentazione/etsi101456.pdf>

2.2.4 Italian rules of law related documents publications

The “Manuale Operativo” [6], deposited at the CNIPA, is published at the CNIPA site (http://www.cnipa.gov.it/site/contentfiles/01386400/1386481_MO_CNN_v3.5.pdf.p7m) and at the CNN URL: <http://ca.notariato.it/documentazione/MOCNN.pdf> .

The “Elenco Pubblico dei Certificatori” (Public List of Certifiers) is published at the CNIPA site (http://www.cnipa.gov.it/site/_files/lista%20dei%20certificati.html) and at the CNN URL: <http://ca.notariato.it/>

2.3 Frequency of Publication

Updated versions of the following documents SHALL be published as below specified:

1. “Manuale Operativo” [6]: after it has been published at the CNIPA web site;
2. Certificates for which publication is required: as soon as they are issued;
3. CRL: as detailed in section 4.9.7;
4. ETSI QCP (TS 101 456 [17]): with the shortest possible delay after they are published at the ETSI site;
5. this CPS: soon after completion of their approval processes (see section 9.12).

2.4 Access Control

The publicly accessible certificate Directory URL is specified at section 1.5.1 and is accessible via the following protocols:

1. LDAPv2 – RFC 1777 [7]
2. LDAPv3 – RFC 2251 [10] or RFC 4511 [22] and related specifications.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

Read access to the Directory operational copies is free via the previously listed LDAP protocols. The Directory Master copy can be accessed and maintained only by the Directory Administrators and by the CA certificates and CRL managing functions.

With the exception of the present CPS that is available only at the CNN CA site, the public information mentioned in this Chapter 2 can also be respectively accessed, in addition to the CNN CA web site, at the CNIPA site and ETSI site. Updating this information requires write privileges which are granted only to authorized CNN, CNIPA and ETSI officers respectively.

3. IDENTIFICATION AND AUTHENTICATION

3.1 Naming

3.1.1 Types of Names

The certificate owner's and issuer's names are registered in the certificates subject and issuer fields as Distinguished Names, which are structured in compliance with CNIPA Deliberation N.4/2005, as specified in the following subsections.

Alternative name can be used in subject certificate to specify the subject's e-mail address, as specified in section 7.1.2.

3.1.1.1 CA Name

CA's name is registered both in the **subject** and in the **issuer** field of its self-signed certificates that contain the following attributes:

- a) *commonName* (OID: 2.5.4.3), having value =
- b) *organizationalUnitName* (OID: 2.5.4.11), having value =
- c) *serialNumber* (OID: 2.5.4.5)
- d) *organizationName* (OID: 2.5.4.10), having value =
- e) *countryName* (OID: 2.5.4.6), having value = "IT"

3.1.1.2 Subject's Name

The **issuer** field value is as specified in the subsection 3.1.1.1.

The **subject** Distinguished Name depends on subject types, as hereafter specified.

- a) *dnQualifier* (OID: 2.5.4.46), having value = 1
- b) *serialNumber* (OID: 2.5.4.5), indicating the Notary's Italian Fiscal Code
- c) *title* (OID: 2.5.4.12), having value = "Notary" or "Presidente CNN f.f." or "Presidente CND f.f."
- d) *surname* (OID: 2.5.4.4)

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

e) *givenName* (OID: 2.5.4.42)

f) *commonName* (OID: 2.5.4.3), indicating the Given Name and the Surname in this order

g) *organizationName* (OID: 2.5.4.10), specifying the District the Notary belongs to

h) *countryName* (OID: 2.5.4.6), having value = "IT"

Other X.501 distinguished names components are usable, as specified in CNIPA Del. 4/2005.

3.1.2 Need for Names to be meaningful

The need for names to be meaningful, as per the European Directive 1999/93/EC and the corresponding Italian rules of law currently in force, is achieved by adopting the law compliant Certificate profile specified in section 7.1.

3.1.3 Anonymity or Pseudonymity of Subscribers

Not applicable.

3.1.4 Rules for interpreting various Name Forms

CNIPA Del. 4/2005 rules apply.

The e-mail address reports the address declared by the subject at registration time, or in subsequent communications, to receive e-mails.

3.1.5 Uniqueness of Names

The *uniqueness of names* is achieved by adoption of the name as specified in Subsection 3.1.1.2.

In case of possible name collision, the necessary investigation is implemented by the CND President, that acts as LRA, where necessary in agreement with another CND President, to ensure the uniqueness of all certificates names and the possibility to identify each certificate owner.

Should such investigation reveal that a previously issued certificate bears erroneous data, the LRA SHALL, respectively:

1. if the involved Notary belongs to the same CND: inform him/her, activate the revocation procedure for the certificate at issue, as per Subsection 4.9, and activate the procedure to re-issue a new correct certificate to the same Notary;
2. if the Notary belongs to a different CND: inform of the event the President of such CND who SHALL, in turn, act as per item 1.

3.1.6 Recognition, Authentication and Role of Trademarks

No stipulation.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

3.2 Initial Identity validation

3.2.1 Proof of Possession of Private Key

This proof of possession is achieved as per the following subsections.

3.2.1.1 Subjects registration and certification

The CND Presidents register Notaries as specified in section 3.2.3.

The CNN CA associates to each request:

1. a Personal ID and a CRN code to be used by the Notary to request for his/her certificate revocation or suspension in emergency ;
2. a law-abiding SSCD graphically personalized with the Notary's data;
3. the PIN and PUK related to the SSCD.

The SSCD is sent to the physical address previously specified by the Notary, while the related codes are sent to the relevant CND. The Notary reports to the CND President to be directly handed the codes as in items 1. and 3., then, after authentication to a specific application with the just received codes as in item 1., activates the generation of the signing key pair inside the SSCD and of the correspondent signing certificate requests as per PKCS#10 rel. 1.5 (RFC 2314 [12]). Being this request signed with the corresponding private key the proof of possession is ensured. Where necessary, help can be provided by the CND Operator in the registration process, or by the CNN Operator/President in the registration or authorization processes.

The CNN CA generates the subscription certificate, as indicated in subsection 4.3, that is subsequently written into the SSCD.

Please refer to § 4.1.2.2 and to § 4.1.2.3 for CND or CNN President and CND or CNN Senior Counselor registration.

3.2.1.2 Other Subject Types

Where applicable, Cross Certified CAs private key Proof of Possession is provided in abidance of RFC 2314 [12] or equivalent.

CNIPA'S private key Proof of Possession is provided as per RFC 2314 [12].

3.2.1.3 Additional Provision – Subject's SSCD Management

The CNN detailed internal procedures provide for a reliable management of the subjects' SSCDs.

The management of their distribution and inventory is under the responsibility of a specific Manager, appointed by a CNN suitably high level management.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

3.2.1.4 Additional Provision – Codes for certificate emergency suspension by the CND President

CND President receives a blind envelope bearing an emergency code. Each CND President is therefore entrusted with his emergency code, to be used by the CND President to request for the related certificate suspension in emergency.

3.2.2 Authentication of Organization Identity

No stipulation.

3.2.3 Authentication of Individual Identity

The applicant SHALL be properly identified by LRA (who can be the President of the CNN or of the CND, depending on whether the President of a CND or a CND Notary member is being registered) via at least one of the following official Italian identification documents:

1. Identity card;
2. passport;
3. Notary District Council released identity document.

The President of CND fulfils, and subscribes, a specific request form bearing the following information. All information that is not derived from the Decree appointing the Notary is stated under the President's own responsibility.

1. Name and Surname,
2. Date of birth,
3. Notary District to which he/she belongs,
4. Office address where his/her Notary functions are performed (full address),
5. Office landline telephone number (if available),
6. Office fax number (if available),
7. e-mail address.

If the Notary's signing key will be used in an automated signing procedure, he/she SHALL subscribe a binding statement that, as per DPCM 13/1/2004 art. 4 (2) and (3), such key pair and the related certificate will be used exclusively for that purpose.

These data are stored by the CNN in a specific registration database.

It is the Notary's responsibility to provide a valid e-mail address, since the CNN (that SHALL NOT verify this address validity) will use it to exchange communications with the Notary. Therefore, should the Notary subsequently change this e-mail address, he/she SHALL timely notify in writing the CNN via e-mail or ordinary mail.

By subscribing the registration form the President of CND attests the validity of all data additional to those indicated in the appointment Decree;

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

By subscribing a declaration of responsibility the Notary:

1. explicitly underwrites the obligations provided for by the rules of law in force, among which those specified at art. 32(1)² of Dlgs 82/2005 and, where applicable, at art. 4 (2) and (3) of DPCM 13/1/2004³;
2. declares to be aware of what is specified at art. 24 (3) of Dlgs 82/2005⁴;
3. declares to have read and understood and therefore endorses the Manuale Operativo [6], that reflects most of this Certification Practice Statement and encompasses other additional specific rules of law requirements, in particular in so far as the Subject's obligations are concerned, wherever specified;
4. consents to his/her personal data processing in abidance by Dlgs 196/2003 and its subsequent modifications and integrations.

A copy of the above subject related documents will be kept by the CNN CA for at least 30 years, in compliance with the CNN rules, that is more than the 20 years required per Dlgs 82/2005 art. 32(3) letter j).

3.2.3.1 Professional qualifications

No stipulations.

3.2.3.2 Association with a Legal Person

No stipulations.

3.2.3.3 Subject belonging to a Client Organization

No stipulations.

3.2.4 Non-Verified Subscriber Information

No stipulation.

3.2.5 Validation of Authority

No stipulations.

² A subscription certificate owner is required to ensure the custody of the SSCD and to implement all organisational and technical measures suitable to avoid damaging third parties; he/she is also requested to make personal use of the SSCD.

³ 2) If the certificate owner issues his/her signature by means of an automated procedure, this procedure must use a key pair different from any other key pair in the owner's possession.

3) If the automated procedure makes use of more than one signing device to issue signatures in the name of the same certificate owner, one specific key pair must be used for each device.

⁴ "In order to generate a digital signature, a qualified certificate shall be used that, at the moment of signature, is neither expired nor revoked or suspended."

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

3.2.6 Criteria for Interoperation

Requirement to ensure interoperability among Italian accredited Qualified Certificate issuers are specified in the CNIPA Deliberation N. 4/2005. Additionally, issuers a number of requirements must be met, that are stipulated in the set of Italian rules of law relevant to electronic signatures. All these requirements, amongst others, will be subject to inspections by the CNIPA, as per Art. 31 of Dlgs 82/2005.

3.3 Identification and Authentication for Re-Key Requests

3.3.1 Identification and Authentication for Routine Re-Key

The Notary whose certificate expiration date is approaching, at least ninety days before the certificate expiration date (i.e. the value in the “notAfter” certificate field) SHALL report to the CND President, asking for a new SSCD to be issued. The issuance procedure as in § 3.2.1.1 Subjects registration and certification is implemented.

3.3.2 Identification and Authentication for Re-Key After Revocation

A complete new SSCD issuance procedure is to be performed as per § 3.2.1.1 Subjects registration and certification.

3.3.3 Identification and Authentication for Revocation Request

The following methods can be used:

1. revocation or suspension request subscribed with a handwritten signature;
 - a) where the Notary is requesting revocation of his/her own certificate, he/she SHALL report to the CND President who testifies for his/her identity;
 - b) where the CND President is requesting revocation of a certificate belonging to one Notary member of the same CND, the CND President’s request is forwarded directly to the CNN;
2. revocation or suspension request subscribed with a qualified signature; the qualified signature vouches indisputably for the request authenticity of origin and rightfulness;
3. emergency suspension request submitted by telephone; this requires authentication via the emergency code associated to the certificate; this emergency code can be of two types:
 - a) where this request type is submitted by the Notary for his/her own certificate, the Notary ID and CRN code are to be used;
 - b) where this request type is submitted by the President of a CND, the President SHALL provide his/her own ID and the emergency code sealed in a blind envelope (CRP).

Further details are specified in section 4.9

The subject will be notified of any revocation/suspension.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

4. CERTIFICATE LIFE-CYCLE OPERATIONAL REQUIREMENTS

4.1 Certificate Application

4.1.1 Who Can Submit a Certificate Application

A qualified certificate application, in PKCS#10 (RFC 2314 [12]) format, can be submitted only by the Notary him/her-self, candidate certificate owner, following the procedure described in §§ 3.2.1.1

4.1.2 Enrollment Process and Responsibilities

4.1.2.1 Notary registration

The CND President, duly assisted by the CND Operator, collects the information specified in § 3.2.3 that are uploaded via secured web channel into the CNN subjects' database, and authorizes the initiation of the certification process, either for the single Notary or for a group of Notaries, that is implemented as specified in §§ 3.2.1.1.

4.1.2.2 CND President and CND Senior Counselor registration

When a newly appointed CND President or CND Senior Counselor is taking office, his/her registration is performed via secured web channel or through a handwritten signature; the following cases may occur:

1. the outgoing President enrolls the incoming new Officer;
2. the CND Senior Counselor enrolls the incoming new Officer;
3. the incoming new Officer enrolls him/her-self.

Note: this does not open a security hole since redundant organizational measures, before and after registration, ensure that no unauthorized person can act as a CND President or CND Senior Counselor at this stage.

When performing such operations these officers are duly assisted by a CND Operator.

The CND Presidents and the CND Senior Counselors are therefore issued one certificate, specifying their role, in addition to the certificate they already own as Notaries.

4.1.2.3 CNN President and CNN Senior Counselor registration

The registration of a CNN President and of a CNN Senior Counselor are performed by the subjects themselves.

Note: this does not open a security hole since redundant organizational measures, before and after registration, ensure that no unauthorized person can act as a CNN President or CNN Senior Counselor at this stage.

In these operations they are duly assisted by a CNN Operator.

The CNN President and the CNN Senior Counselor are therefore issued one certificate specifying their role in addition to the certificate they own as Notaries.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

4.2 Certificate Application processing

4.2.1 Performing Identification and Authentication Functions

The certificate requester's identity is reliably verified during the enrollment process as specified in § 4.1.2.

As specified in sections 3.2.1.1, the certificate request complies with the RFC 2314 [12] (i.e. PKCS#10) provisions, therefore its formal correctness along with the reliability of the enrollment process ensure the correspondence between private and public key as well as the owner's identity and data correctness.

4.2.2 Approval or Rejection of Applications

Based on the controls specified in 4.2.1 and 4.3.1 sections the certification request is approved or rejected.

If it is approved the corresponding certificate is generated and forwarded to the certificate subject to be written in the SSCD.

If it is rejected this may depend on one of these two cases:

1. CA Software malfunction; in which case, once fixed, the certificate generation procedure is newly executed;
2. malfunction of the certificate request creation application. In this case the CNN CA involved department is forwarded the rejection message and the related Notary, CND President, CND Senior Counselor, CNN President, CNN Senior Counselor are respectively kept up to date of the malfunction correction. Once fixed, a new blank smartcard is sent to the Notary to repeat the enrolment.

4.2.3 Time to Process Certificate Applications

If the certificate request is approved the corresponding certificate is immediately generated and forwarded to the certificate subject to be written in the SSCD.

The time to complete the overall process from registration to certificate delivery, as specified at subsection 3.2.1.1, depends on the time needed to perform these phases:

1. registration and authorization by the CND President;
2. forward to CNN LRA of the request for smartcard;
3. shipment of smartcard to the Notary and of PIN and other codes to the CND;
4. reporting by the Notary to the District to be delivered PIN and passwords to activate SSCD either by himself, or with the assistance of a CND Operator.

4.3 Certificate Issuance

4.3.1 CA Actions During Certificate Issuance

The CA performs the verifications specified at subsection 4.2.1, namely:

1. existence of the certificate requester's information in the CA registration database;

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

2. correspondence between the information in the certificate request and in the registration database;
3. correspondence between private and public key, as per RFC 2314 [12] (i.e. PKCS#10) provisions.

If the above verifications have a positive outcome the certificate is generated and sent over a secured channel to the related subject.

4.3.2 Notifications to Subscriber by the CA of Issuance of Certificate

Not applicable: the Notary receives the SSCD at the address he/she previously specified and then reports at the CND to be handed over the signature issuance and verification software along with the related secret codes with which the certification process is activated by the Notary.

The Notary is informed online and by email of the certification process completion by the related application program, once the generated certificate has been loaded into the SSCD.

4.4 Certificate Acceptance

4.4.1 Conduct Constituting Certificate Acceptance

The certificate requester SHALL verify immediately upon delivery the correctness of the certificate data and, should they be incorrect, SHALL immediately request for the certificate revocation as per section 4.9.3.

In case the Notary at issue uses this erroneous certificate he/she SHALL bear the consequences of having invalidly signed formal acts.

4.4.2 Publication of the Certificate by the CA

The CA SHALL publish only the certificates issued to the CNIPA, its own self-signed certificates and, where applicable, cross-certificates.

4.4.3 Notification of Certificate Issuance by the CA to Other Entities

No stipulation.

4.5 Key Pair and Certificate Usage

4.5.1 Subscriber Private Key and Certificate Usage

Notaries shall use their CNN certified key pairs only to issue digital signatures, as defined in section 1(1), letter s) of DLgs 82/2005, and only when performing the duties related to their office, and in respect of the Law 89/1913 – Notary Law.

If they have not subscribed a declaration that the said key pair will be used with a specific automated procedure, they SHALL NOT use it with such a procedure.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

Where they have signed a declaration that the said key pair will be used with a specific automated procedure, they SHALL only use it with such a procedure.

No other usage of the subscription key pair is allowed.

4.5.1.1 Signature Issuance Application and Document formats

The certificate owner SHOULD make use of a signature issuance application provided by the CNN CA.

Otherwise, if documents to be signed are in formats different from *.txt e *.bmp, that intrinsically cannot host malware suitable to modify the presentation of acts and deeds represented in the document itself as per DPCM 13/1/2004, art. 3(3), the certificate owner SHALL transform those documents into static ones before signing them, to avoid the above mentioned malware.

4.5.1.2 Signature Issuance Workstation

The signature issuance application SHOULD be installed and used only on suitably secured workstations, that SHOULD be under the Notary's direct or indirect control, equipped with SW and/or HW tools suitable to prevent attacks enacted with malware such as virus, Trojan horse, spyware, capable to modify the data to be signed or to stealthily acquire the SSCD activation code.

4.5.2 Relying Party Public Key and Certificate Usage

4.5.2.1 Notary acting as Relying Party

The Notary, as per DPCM 13/1/2004 art. 38 (3) letter s), SHALL make use of the verification application directly supplied by the CNN to verify a digital signature. This application meets the interoperability requirements specified in the Italian rules of law in force.

If the digital signature is based on certificates issued by another CA, this application makes use of the Public List of Certifier kept by the CNIPA, published at URL: http://www.cnipa.gov.it/site/_files/lista%20dei%20certificati.html.

If the signature to be verified was applied on document having formats different from *.txt e *.bmp, the signature verifier SHOULD make use of applications suitable to issue a warning if the signed document has undergone changes subsequent to signing time, even if the digital signature is cryptographically sound.

4.5.2.2 Third Parties acting as Relying Party in relation with CNN CA issued certificates

Relying Parties who are not subjects of CNN issued certificates, in order to verify signatures based on CNN issued certificates SHALL verify the certificates validity as specified in § 4.9.6.

4.5.2.3 Cautions when referring to CRLs

A relying party that verifies a digital signature supported by certificates issued by the CNN CA, SHOULD take also into account the time necessary:

1. to who requests a revocation/suspension to submit such request to the CA;

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

2. to the CA to execute the organizational and computing procedures that process the request and publish the related output.

In order to assess a signature validity the status of the related certificate SHALL be checked at time of receipt of the signed document, and, if necessary, a trusted time reference SHOULD be associated to the signed document to reliably mark the actual date of receipt (e.g. a Time Stamp Token issued by a TSA belonging to a CA listed in the Public List of Certifiers, or the time included in a Posta Elettronica Certificata – PEC – message with which the signed document was delivered).

In addition to this time reference the signature verifier SHALL take into account that the CA publishes a new CRL every 2 hours.

Note: “force majeure” events may occur that might delay the CRL publication. To prevent their negative effects, the CNN CA issues CRLs some minutes before the expected time (i.e. the value in the current CRL “nextUpdate” field). However in exceptional cases a CRL might be issued beyond the value in this “nextUpdate” field, therefore relying parties may happen to access an expired CRL, i.e. where the value in the CRL “nextUpdate” field is in the past. In such exceptional events, relying parties SHALL abstain from assessing as valid digital signatures associated to a trusted time reference that is subsequent to such past “nextUpdate” value.

4.6 Certificate Renewal

4.6.1 Circumstances for Certificate Renewal⁵

No Certificate renewal is provided for by CNN.

On or around expiration of one subscription certificate the CNN CA issues new smartcard and new certificate. Registration is automatic, authorization SHALL be explicit.

4.6.2 Who May Request Renewal

No stipulation.

4.6.3 Processing Certificate Renewal Requests

No stipulation.

4.6.4 Notification of New Certificate Issuance to Subscriber

No stipulation.

4.6.5 Conduct Constituting Acceptance of a Renewal Certificate

No stipulation.

⁵ RFC 3647 section 4.4.6: “Certificate renewal means the issuance of a new certificate to the subscriber without changing the subscriber or other participant’s public key or any other information in the certificate.”

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

4.6.6 Publication of the Renewal Certificate by the CA

No stipulation.

4.6.7 Notification of Certificate Issuance by the CA to Other Entities

No stipulation.

4.7 Certificate Re-Key

4.7.1 Circumstances for Certificate Re-Key

4.7.1.1 End User Certificate Re-Key

When a certificate expiration date is approaching, issuance of a new SSCD containing a new key pair can be requested following the procedure specified in section 3.3.1.

4.7.2 Processing Certificate Re-Keying Requests

Please refer to section 3.3.1.

4.7.3 Notification of New Certificate Issuance to Subscriber

The same provision as in section 4.3.2 apply.

4.7.4 Conduct Constituting Acceptance of a Re-Keyed Certificate

The same provision as in section 4.4.1 apply.

4.7.5 Publication of the Re-Keyed Certificate by the CA

The same provision as in section 4.4.2 apply.

4.7.6 Notification of Certificate Issuance by the CA to Other Entities

The same provision as in section 4.4.3 apply.

4.8 Certificate Modification

No Certificate modification is implemented: any change in the certificate data will cause a new SSCD to be issued, with a new key pair and a new certificate.

4.8.1 Circumstances for Certificate Modification

No stipulation.

4.8.2 Who May Request Certificate Modification

No stipulation.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

4.8.3 Processing Certificate Modification Requests

No stipulation.

4.8.4 Notification of New Certificate Issuance to Subscriber

No stipulation.

4.8.5 Conduct Constituting Acceptance of Modified Certificate

No stipulation.

4.8.6 Publication of the Modified Certificate by the CA

No stipulation.

4.8.7 Notification of Certificate Issuance by the CA to Other Entities

No stipulation.

4.9 Certificate Revocation and Suspension

Suspension is a revocation with a specific “reasonCode”, therefore in the following subsections only the term “revocation” is used. Where provisions are applicable only to revocation or suspension this is clearly specified. Further details for suspension are indicated in sections 4.9.13 and beyond.

4.9.1 Circumstances for Revocation

When an anticipated cessation of validity is planned for a certificate, the CNN CA revokes at it at the requested time, for example in the case when the certificate owner is planned to cease from the task for which his/her certificate was issued, or in case of planned absence of the certificate owner from his/her duty, in which case a “suspension” is carried out.

When the CNN CA cannot timely ascertain one revocation request authenticity, the certificate at issue is suspended for the period of time necessary to ascertain such authentication. If and when the request proves as authentic, the certificate is outright revoked.

The certificate revocation or suspension is always communicated by the CNN CA to the Notary, also indicating the time and date the certificate at issue was revoked/suspended.

4.9.1.1 Request for revocation submitted by the Notary

A Notary SHALL ask for his/her own certificate revocation at least in the following cases:

1. loss of exclusive control of the private key, this may depend on one or more of the following reasons:
 - a) theft or outright loss of the SSCD;

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

b) reasonable doubt that the confidentiality of the SSCD activation codes has been compromised;

c) reasonable doubt that the confidentiality of the private key has been compromised;

2. SSCD malfunction.

In previous case 1a) the Notary SHALL also report the loss or theft to the competent authority.

In any moment a Notary can request for his/her certificate revocation in writing, also specifying the date of effectiveness.

4.9.1.2 Request for revocation submitted by the CND/CNN President

The CND President SHALL ask for a Notary revocation at least in the following cases:

1. when the Notary loses his/her office, regardless of the reason:

- a. the Notary quits or is dismissed from his office;
- b. the Notary moves to another District;
- c. any other reason for ceasing from his/her office;

2. upon authority orders implying cessation from the Notary office.

The CNN President SHALL ask for a CND President's certificate revocation whenever events analogue to those above specified occur to that CND President.

4.9.1.3 Request for revocation enacted autonomously by the CNN

The CNN timely revokes a certificate when the CNN becomes aware of one or more of the following circumstances:

1. case 1 of § 4.9.1.1;
2. the certificate owner's capabilities have been or are subject to limitation, that the signing device has been illegally used or that signature forgeries have occurred;
3. any variation of substantial certificate data, such as the Notary's right to exert his/her office, be it of plain Notary, of CND President, of CNN President, etc.

As required by DPCM 13/1/2004, art. 18, the CNN CA before revoking a qualified certificate notifies the related notary in advance, unless good reasons prevent the CNN from doing this.

4.9.1.4 Used Revocation Reason Codes

The CNN adopts the following reasonCodes among those provided for by the ISO/IEC 9594-8:2005:

- Unspecified
- KeyCompromise
- CACompromise

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

4.9.2 Who Can Request Revocation

A certificate can be revoked or suspended:

1. upon request by the certificate owner,
2. upon request by the relevant CND President,
3. upon request by the CNN President upon solicitation by the involved CND President,
4. upon the CNN CA initiative,
5. upon authorities' order.

4.9.3 Procedure for Revocation or Suspension Request

4.9.3.1 Basic Stipulations for Revocation Requests

The certificate owner and, where applicable, the President of the CND the Notary belongs to, or the CNN President, upon solicitation by CND President, can ask for a Notary certificate revocation by using one of the three following mechanisms:

- Submit a request subscribed with handwritten signature
- Submit a request subscribed with digital signature
- Report by telephone to the Contact Center / Help desk (only for urgent suspension).

The CNN CA processes the request giving way to its revocation, or suspension, and to its publication in the CRL that is then published in the Directory.

Both the Notary and the CND President are notified of the certificate revocation or suspension.

Once a certificate is revoked / suspended as per the required timing and manners, the certificate owner is notified of the event by e-mail.

4.9.3.2 Revocation Request subscribed with handwritten signature

- a) The Notary, where applicable, SHALL submit his/her request, signed with a handwritten signature, to the CND President.
- b) The CND President SHALL submit the revocation request, be it signed by him/her-self or by the Notary, to the CNN CA.
- c) The revocation or suspension request SHALL specify what follows:
 1. certificate owner's name and surname,
 2. site and CND where he/she belongs to,
 3. certificate serial number, if available,
 4. revocation or suspension reason,
 5. any other information suitable to help identify the cases where a greater urgency of even emergency applies.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

d) Revocation/suspension requests are submitted to the CNN CA.

4.9.3.3 Revocation Request subscribed with digital signature

The requester, be the Notary or the CND President, SHALL forward the digitally signed request in telematic way to the CNN CA, also through the web portal of the RA.

The same stipulations as in § 4.9.3.2 item c) apply.

4.9.3.4 Revocation Request through Contact Center

- a) The requester reports to the Contact Center and is authenticated by means of his/her ID code and of:
 1. CRN, where a Notary is requesting revocation/suspension for the related certificate;
 2. CRP, where the requester is a CND President requesting for revocation/suspension of a certificate issued to a Notary belonging to District he/she presides.
- b) The following information SHALL be provided to the Contact Center:
 1. CND President identifier, where this is the revocation requester;
 2. certificate owner's name and surname;
 3. CND the Notary belongs to;
 4. reason and time of effect of the revocation or suspension;
 5. all information useful to define the urgency (or emergency) of the case.
- c) The CNN CA suspends the certificate at issue, adds its identifier in the CRL that is afterwards published in the Directory.
- d) The requester within 10 (ten) working days SHALL submit the same request (or SHALL conversely request for the certificate reactivation: this can only be requested by the CND President) in writing, subscribed either with a handwritten signature or with a digital signature, to the CNN CA.
- e) If this revocation request is received by the CNN CA within the above said ten days, the certificate is revoked, suspended or reactivated (only upon CND President request), as per the request. If such request is not received it remains suspended.
- f) The respective Notary and CND President are notified of the performed revocation, suspension or reactivation by means of a digitally signed document or a Registered Letter.

4.9.3.5 Revocation and suspension service availability

Different services availability apply depending on the request submission type.

1. Telematic submission of digitally signed requests: 24*7 service.
2. Paper requests signed with handwritten signature: Monday to Friday – 9:00 a.m. through 6:00 p.m.
3. Suspension requests submitted in emergency by the CND President via the Contact Center: Monday to Friday – 9:00 a.m. through 6:00 p.m.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

4. Suspension requests submitted in emergency by the Notary via the Contact Center: 24*7.

4.9.4 Revocation Request Grace Period

Note: in this CPS, that complies with TS 101 456, the meaning of the term “Grace Period” is slightly different from its meaning in the RFC 3647, since it also encompasses the period necessary to the CA to perform the entire revocation process, including the revocation publication.

A Relying Party SHALL take into account, in order to assess a signature validity, the current CRL or, preferably, one CRL issued at least 2 hours after the receipt of the signed document or after a trusted time associated to the signed document, e.g. a Time Stamp Token or the time specified in a PEC e-mail.

This procedure also suites the case when the revocation request is received by the CNN CA so close to the next CRL issue time that it is impossible for the CA to process it and publish it in such CRL. As a consequence the revoked/suspended certificate will be referred to in the second next CRL.

4.9.5 Time Within Which CA Must Process the Revocation Request

The CNN CA systems process the revocation requests queue at intervals of few minutes. Unless abnormal conditions occur, as hinted to in the previous subsection, revocations will be reported in the next CRL. A new CRL is issued every 2 hours.

4.9.6 Revocation Checking Requirements for Relying Parties

Unless Relying Parties make use of the verification application provided for by the CNN CA, they SHALL take into account what follows when assessing a signature supported by a CNN CA issued.

1. The CNIPA public key included in the certificate associated to the Public List of Certifiers signature MUST be verified against the latest digest published in the Gazzetta Ufficiale della Repubblica Italiana. It is the Relying Party responsibility to monitor the issuance of these digests, being the Gazzetta Ufficiale della Repubblica Italiana a source of legal evidence.
2. The public key found as positively matching the digest specified in the previous item SHALL be used to verify the CNIPA signature on the Public List of Certifiers.
3. The self-signed certificate of the CA that issued the certificate associated to the signature under verification MUST be listed in the Public List of Certifiers.
4. A suitable CRL, i.e. that is accessed taking into account the Grace Period as per subsection 4.9.4, SHALL be downloaded from the address indicated in the signer’s certificate’s CRL Distribution Point.
5. The signature of the CRL SHALL be verified with the above CA certificate (see item 3).
6. The value in the “thisUpdate” field in the retrieved CRL MUST be subsequent to the time of receipt or, where applicable, to the time specified in the associated Trusted Time plus

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

the Grace Period (see 4.9.4) and the value in the “nextUpdate” field MUST be beyond the moment the verification is carried out.

If the values in the “thisUpdate” field or in the “nextUpdate” field do not meet the above specified requirements, the Relying Party SHALL retrieve subsequent CRLs until fetching one that meets them.

7. The fetched CRL, meeting the above requirements, SHALL NOT refer to the certificate supporting the signature being verified.
8. The signature MUST be cryptographically correct.
9. The Relying Party SHALL make use of verification applications capable at least to give a warning if the signed document presentation has changed since signing time, without affecting the signature cryptographic validity.

Note: no claim raised against the CNN CA will be accepted if the Relying Parties cannot demonstrate they have complied with all of the above requirements.

4.9.7 CRL Issuance Frequency

CRLs are issued every 2 hours.

4.9.8 Maximum Latency for CRLs

Once a CRL is issued it is published in the CA directory and in its Shadow copies with the minimum possible delay, depending on the network and systems conditions.

4.9.9 On-Line Revocation/Status Checking Availability

An experimental OCSP system, RFC 2560 [23] compliant, is under deployment by the CNN.

Being this deployment experimental, in some qualified certificates issued by the CNN CA the AIA extension could be void. This experimental phase duration was not yet defined as of the time of publication of the present CPS.

4.9.10 On-Line Revocation Checking Requirements

The certificates revocation status verification by means of the CNN CA OCSP, when applicable, is to be performed according to the RFC 2560 [23].

Being this OCSP system under experimental deployment, its specifications are subject to change in the time, therefore it is advised to report at the CNN CA website (<http://ca.notariato.it>), if OCSP verifications are to be performed, where updated information would be available.

4.9.11 Other Forms of Revocation Advertisements Available

No stipulation.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

4.9.12 Special Requirements re Key Compromise

Any authorized entity (see section 4.9.1.4) SHALL immediately request for a certificate revocation with reason code "keyCompromise" whenever they become aware of one of the events described in item 1 of section 4.9.1.1.

What specified in the second and third paragraph of 4.9.1 applies.

4.9.13 Circumstances for Suspension

A certificate can be suspended for a limited time in the following cases:

1. when its certificate owner will be absent on leave; this can be requested by both the Notary or the CND President;
2. upon temporary suspension of the Notary from his/her office; this can only be requested by the CND President;
3. upon temporary cessation of the Notary from his/her office;
4. upon temporary ban or disqualification of the Notary from his/her office;
5. upon competent authority's proceedings implying temporary cessation of the Notary from his/her office.

4.9.14 Who Can Request Suspension

Suspension can be requested by the same persons as in section 4.9.1.4

4.9.15 Procedure for Suspension Request

In addition to stipulations in section 4.9.3, a certificate SHALL be suspended whenever the CNN CA cannot authenticate a revocation request before publishing its outcome in the CRL. The certificate at issue SHALL remain suspended up to the end of the authentication process, and will be either outright revoked or reactivated depending on the authentication outcome.

4.9.16 Limits on Suspension Period

Section 4.9.13 specifies the different cases for which a certificate can be suspended. The related duration depends on the specific case identified in that section.

4.9.17 Certificate Reactivation after Suspension – Additional section

A suspended certificate is reactivated:

1. automatically at the end of its *planned* suspension period;
2. upon request by the CND President, submitted in writing (i.e. subscribed with a handwritten or digital signature) in the same way as per its revocation/suspension (see § 4.9.3).

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

Whenever a certificate is reactivated, its reference is removed from the CRL and both the owner and the CND President are notified with a digitally signed document or via Registered Letter.

4.10 Certificate Status Services

4.10.1 Operational Characteristics

Certificate status information is provided through Certificate Revocation Lists published, as specified in section 4.9 subsections, on an LDAP Directory based on a publicly accessible Operational Master Copy and a number of copies, obtained from this Master Copy by means of the DISP protocol, also openly accessible by the public and situated in different sites to ensure information provision even in case of disaster.

In each issued certificate the related CRL Distribution Point address is specified, pointing to a CRL that can be accessed using an LDAP protocol as defined in RFC 1777 [8], RFC 2251 [10] and subsequent RFCs.

4.10.2 Service Availability

The CRL availability is ensured 24*7, also due to the directory replication mechanism.

4.10.3 Operational Features

No stipulations.

4.11 End of Subscription

Given the CA peculiarity (it serves Notaries whose duty is to ensure reliable service and documents retrievability in the centuries to come) end of subscription is not an issue. A Notary can quit the CA services only when he/she is dismissed, or quits office.

In this case the related certificate is revoked as detailed in § 4.9.3.

4.12 Key Escrow and Recovery

Only CA private keys are backed up and restored, when required, in agreement with DPCM 13/1/2004, art. 7(2)⁶.

No subscription private key is escrowed. This is consistent with QCP [17] section 7.2.4 that states: "Subject private signing keys shall not be held in a way which provides a backup decryption capability, allowing authorized entities under certain conditions to decrypt data

⁶ For specific security reasons it is allowed that certification private keys are exported, provided that this is performed with procedures suitable not to reduce the security level.

Issued by:	Consiglio Nazionale del Notariato	Document type:	Certification Statement	Practice
		Doc code:	CPS_CNN_1_0	
Document Title:	<i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version:	1.0	Attachments:

using information supplied by one or more parties (commonly called key escrow) (see the Directive [1], annex II (j)).”

This is also consistent with DPCM 13/1/2004 at art. 7(1): “Duplication of private keys and of containing devices is forbidden.”

4.12.1 Key Escrow and Recovery Policy and Practices

No stipulation.

4.12.2 Session Key Encapsulation and Recovery Policy and Practices

No stipulation.

5. FACILITY, MANAGEMENT, AND OPERATIONAL CONTROLS

5.1 Physical Controls

5.1.1 Site Location and Construction

All PKI related buildings are compliant with the Italian rules of law regarding safety and security measures.

The buildings are under human and/or advanced electronic surveillance and monitoring.

5.1.2 Physical Access

Central PKI systems are installed inside dedicated premises the access to which is controlled and protected via both electronic or human control and surveillance systems.

These systems are located inside a dedicated network, protected from attacks by means of firewalls, IDS, etc.

Physical access is reserved to authorized people. Sensitive PKI tasks are required to be performed under at least dual control. Occasional visitors (including unauthorized people with a need to access, e.g.: service and maintenance personnel, and even managers) may access these areas only under prior authorization and are continuously escorted by regularly authorized personnel, who are directly accountable for these escorted persons. All access is logged and physical access audit trails are kept.

Active and passive anti intrusion systems are in operation.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

5.1.3 Power and Air Conditioning

A UPS ensures seamless processing even in case of power interruption. It is also complemented by a long lasting emergency power generator, the duration of which depends only on the fuel stock and regular supply.

PKI areas air conditioning is sized to meet the devices suppliers' specifications.

5.1.4 Water Exposures

The CA site is located in a place at the level of a nearby river, but the entire geographic area is duly monitored and managed to prevent floods that have never occurred since 1926, when the Tiber river embankments were completed, apart from a really minor one in 1937.

The Disaster Recovery site is far from any water stream.

5.1.5 Fire Prevention and Protection

Fire prevention and protection measures comply with the current Italian rules of law. The fire detector and extinguishing system is inspected every 6 months.

5.1.6 Media Storage

Media are stocked in safe and secure places. Procedures in force aim to protect them from tampering, in order to keep them free from malicious codes since their arrival up to their sanitized disposal, and to prevent that media are stolen.

CNN Security Policies detail PKI related cryptographic devices secure storage and handling.

5.1.7 Waste Disposal

In addition to the stipulation specified in the related CP [17], the following apply.

Dangerous and toxic waste is disposed of according to the rules of law in force.

Disposition of paper documents and of electronic media bearing sensitive information is performed in a secure way. Paper documents are shredded and electronic media are degaussed if of magnetic type, otherwise are outright destroyed: optical media are cut or pierced several times, device bearing chips like smart cards are either cut in parts or pierced, paying attention that the chip is actually divided in at least two parts or that is smashed in an unrecoverable way.

5.1.8 Off-Site Backup

All information that is required for service continuity is backed up in local systems and in a remote site. Back-up copies are generated at regular intervals, databases are implemented

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

by means of their mirroring functions over MAN (Metropolitan Area Network) between primary site and disaster recovery site.

5.2 Procedural Controls

The Italian applicable rules of law require that specific managing roles are clearly separated. ISO/IEC 27001 [4] Annex A, section A.10.1.3 and ISO/IEC 27002 [5] section 10.1.3⁷ similarly requires separation of duties when sensitive procedures are involved.

The CNN CA strictly enforces the segregation of roles both in compliance of the Italian rules of law and of the ISO/IEC 27002.

5.2.1 Trusted Roles

Employees are appointed to trusted roles by a suitably high level management of Notartel in agreement with the CNN management, depending on the involved role. For security reasons, details are not specified hereinafter for these roles, with the sole exception of the Certificate Issuance Manager who has also operational responsibilities.

Also trusted operating roles are separated and are assigned by Notartel high level management with agreement with CNN management, depending on the involved role.

Access to restricted areas is governed by specific procedures, that also require that, when people authorized to access these areas quit, resign or are moved to a different operation area, their PKI related privileges SHALL be timely revoked and they SHALL return any PKI relevant identity badge or credential that grants access to restricted areas, as well as all confidential documentation. Where applicable they are also reminded their obligation not to disclose confidential information even after the termination of their employment relationship.

5.2.2 Number of Persons Required per Task

No key trusted task is assigned to only one officer, in order to prevent service interruptions.

On the other hand, all sensitive activities are performed under at least dual control, achieved at least with organizational procedures and, where possible, also by technical means.

5.2.3 Identification and Authentication for Each Role

All officers are assigned their PKI related duties upon identification face to face.

They authenticate themselves to the related procedures either with physical credentials (e.g. smart cards, magnetic token, etc.) or logical (e.g. password).

⁷ Control: "Duties and areas of responsibility should be segregated to reduce opportunities for unauthorized or unintentional modification or misuse of the organization's assets."

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

When passwords are used, their composition rules complexity is directly related to the accessed function sensitiveness, additionally they are to be changed with a frequency that is inversely dependent on their robustness, e.g. long passwords made of uppercase, lowercase, numbers and special characters require a less frequent change than short and purely numerical passwords.

5.2.4 Roles Requiring Separation of Duties

One person is not allowed to perform tasks that might be in conflicting situations, in particular he/she cannot be in charge of multiple jobs such that:

1. one job authorizes another jobs operation;
2. one job controls another job outcomes correctness;
3. one job execution and security depends on, or is affected by, the completion and / or correct execution of another job.

Persons can be in charge also of non PKI-related roles, if they do not conflict with their PKI-related ones.

5.3 Personnel Controls

5.3.1 Qualifications, Experience, and Clearance Requirements

The following provisions apply, in addition to provisions laid down in the related CP [17].

As required by the rules of law in force, officers appointed with the managing roles mentioned in Section 5.2.1 MUST have a minimum of 5 years background in information systems analysis, development, planning or managing.

5.3.2 Background Check Procedures

A screening on the background of personnel about to be hired is performed to the extent that this is allowed by the rules of law in force, in particular related to privacy (i.e. Dlgs 196/2003 that implements European Directive 46/95/EC and implementation juridical instruments). Their CV is verified at the previous employers.

Where this information is already in possession of the CNN or of its CA service provider Notartel, this verification is performed up to where this is legally possible. No person that has been subject to discipline measure due to serious security violation is employed in sensitive PKI roles.

Finally, PKI related functions SHALL be assigned only to personnel who has previously demonstrated, in addition to the specific technical skill, also a specific carefulness in complying with security and confidentiality related tasks.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

5.3.3 Training Requirements

All PKI related employees are timely trained on PKI technology, on the CNN CA organization security policies and procedures, prior to being assigned to PKI related tasks.

In particular, in addition to training the personnel on the day by day operations, a special attention is given in training them on incident reporting and on dealing with disaster situations.

5.3.4 Retraining Frequency and Requirements

All employees appointed to PKI tasks are duly trained whenever the PKI technology undergoes updates and security policies, procedures, and organization change.

Yearly all PKI officers all delivered classes on the main procedures they are related to, in particular on the emergency related ones, to ensure that they are capable to run even the little used procedures, should exceptional cases occur.

5.3.5 Job Rotation Frequency and Sequence

Job rotation MAY be performed both to ensure a seamless smooth process execution even in case of emergency that reduce the staffing, and to avoid that a “collusion feeling” is established among operators that frequently and jointly operate.

Generally speaking, no “a priory” general rule exists, except the following one: positions MUST not be overturned, i.e. one person who previously was verifying the correctness of another person’s task outcomes cannot swap tasks with that very person, to avoid the above mentioned collusion.

5.3.6 Sanctions for Unauthorized Actions

The Italian rules of law are enforced in case of violation of security measures. All interested employees are informed of the sanctions that can be applied as per the collective working contract.

Should civil or criminal offences be perpetrated, CNN or Notartel SHALL be free to take legal steps.

5.3.7 Independent Contractor Requirements

Contractors of PKI related services, e.g. SSCD personalization, transportation to other sites of media with sensitive information, etc. are required by contract to enact to their personnel security measures similar to the ones applicable to the CNN / Notartel personnel.

The CNN and its CA services provider Notartel by contract can perform inspections on contractors’ sites and can ask to be exhibited the results of internal inspections performed on the contractors by they themselves or by external auditing companies they appoint.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

5.3.8 Documentation Supplied to Personnel

All PKI personnel is endowed with operating manuals related to their tasks where such tasks are documented for each involved procedure. Namely:

1. this CPS,
2. the Italian “Manuale Operativo” that summarizes this CPS with additional law abiding stipulations,
3. the “Security Plan” (“Piano per la Sicurezza”), limited to a restricted audience, that provides an overall information of all the security related measures,
4. the Security Policies related to the procedures the single employee operates with the distribution of which is based on a “need to know” criteria,
5. specific operational procedures.

In particular a suitable number of copies of the emergency procedures, both on paper and retrievable by electronic means, is distributed among the various PKI related sites.

5.4 Audit Logging Procedures

5.4.1 Types of Events Recorded

All events relevant to the PKI processes systems/applications described in this CPS and in the related CP [17] are logged. Event severity is recorded in the log records that are tagged accordingly, from events related to normal operation up to alarm raising ones.

Additionally, as per DPCM 13/1/2004, the following events, that are automatically recorded by the related systems, make up the “Control Log”.

When such recording mechanisms are exceptionally not operational, these very events are manually logged for the duration of the exceptional event and subsequently electronically transcribed on the Control Log.

1. Access to the CA secured premises
2. Certificates generation sessions start and end time
3. SSCD personalization
4. Information related to certificate generation, suspension and revocation, and to the certificate status publication.

The related time reference SHALL be specified in every “Control Log” recording, and has legal value.

5.4.2 Frequency of Processing Log

Daily log files, in particular the “Control log”, are backed up. At least once a month the “Control Log” integrity is verified.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

5.4.3 Retention Period for Audit Log

Records in the “Control log” are kept for at least 30 years, as per the CNN internal rules: this time period is longer than the 20 years that are required by the DLGs 82/2005 as modified by the DLGs 159/2006. The Control Log refers to the information specified at section 5.4.1 item 4.

Application procedures necessary to visualize the Control Log records are also kept for 30 years.

5.4.4 Protection of Audit Log

The Control Log can only be modified by the applications that create its records. Where applicable, the intrinsic structure of these records ensures that no change or deletion can be applied after each record is written.

The Control Log and its copies are securely kept in a secure environment and can only be accessed in read mode.

At least once a month the Control Log is inspected for integrity by auditors.

5.4.5 Audit Log Backup Procedures

Once a day the Control Log is backed up on media magneto-optic or non rewritable types.

Reports on the back up procedure completion are inspected to verify if they were successfully executed. In case of unsuccessful execution the subsequent back up session, that will occur after removal of the malfunction, will include also the previously wrongly backed up data.

Also successful back up copies are kept in at least one back up site.

A Control Log is also managed at the Disaster Recovery site by DR service provider, and it is related to its infrastructure.

5.4.6 Audit Collection System (Internal vs. External)

Audit data are originally collected internally to the related systems, to later merge in the Control Log. Where applicable, Control log agents parse logs of the PKI applications and send these records to Control Log system.

5.4.7 Notification to Event-Causing Subject

No stipulation.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

5.4.8 Vulnerability Assessments

An overall CA Risk Assessment is performed regularly, as required by the QCP [17] and by the Italian rules of law, that addresses also the Control Log recording and storage.

5.5 Records Archival

5.5.1 Types of Records Archived

All documentation (either on electronic or paper media) and events are archived, related to:

- a. Notary's, CND President's, CNN President's registration and certification requests,
- b. certificate generation (operations on SSCD included),
- c. certificate revocation, suspension and reactivation,
- d. access and task activation/deactivation,
- e. Control Log.

Are also archived:

- f. abnormal events on PKI systems (CA, Directory), such as attempts to illegal access or modification of these systems data, system malfunctions, etc.;
- g. back up copies of the publicly accessible Directory.

Are also kept:

- the minutes of the CA key generation/update ceremony,
- the PKI systems configuration history.

Paper documentation may be digitally scanned, in which case the output file may be digitally signed by the officer who performed the scanning, and is made easily available to authorized personnel.

PKI systems approved configuration is kept by the specific Manager.

Should the CNN terminate its operation as a CA, stipulation as in section 5.8 will take effect.

5.5.2 Retention Period for Archive

All certificates related information is kept for at least 30 years, as per the CNN internal rules, that is longer than the law abiding period of 20 years.

No stipulation exists for other archives, apart what is specified in section 5.4.3 for Control Log.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

5.5.3 Protection of Archive

5.5.3.1 Who can view the archive

Only authorized personnel can access the CA related archives and solely in read only mode.

5.5.3.2 Integrity protection of the archive - modification

Archives, once downloaded from their systems of origin, are kept on media that, either intrinsically or with procedural measures, cannot be modified or deleted.

The integrity of the CA Archives are verified:

1. soon after the backup copies are performed;
2. at least monthly as far as the Control Log is concerned;
3. as per the programmed Security Audit inspections;
4. at any other time whenever a security audit is required.

5.5.3.3 Integrity protection of the archive - modification

No further stipulation.

5.5.3.4 Protection against archive deterioration

The person in charge of the data security ensures the copies readability by periodically inspecting their status. Should any problem be identified, new copies are created starting from other instances of the data stored in the defective media.

5.5.3.5 Protection against obsolescence

Where applicable, multiple copies of the programs required to read the stored data are kept and are subject to measures similar to those in the previous § 5.5.3.4 suitable to ensure their readability.

Should changes in Operating Systems or the likes occur, that can make these programs unusable, a document conversion to a format capable to be processed with a new program will be performed, where applicable.

5.5.4 Archive Backup Procedures

On a daily basis backup copies are produced of new data, applications, Control Log and of every new file necessary to completely restore the CA management critical systems.

For these systems the backup copies generation is remotely managed and controlled by means of a central system in order to:

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

- Minimize the need for human intervention and access to system rooms;
- Simplify the backup procedures scheduling and their auditing;
- Enhance the backup operations reliability.

The archived data will be available at the main CA site and their copies at the off site storage backup location, in secured closets.

5.5.4.1 Electronic Information Archive

Data are saved daily. These data are periodically consolidated and saved.

Archives are stored in a safe way at the CA main site. Data related to the Disaster Recovery site are saved and archived also at the Disaster Recovery site by the Disaster Recovery service provider.

5.5.4.2 Paper Information Archive

Paper information is securely stored at the CA site.

After an initial period, depending on the relevant procedures, it may be securely and safely kept at a back up site.

5.5.5 Requirements for Time-Stamping of Records

All audit log and archive records include an indication of time and day that is reliably acquired when they are recorded, based on the trusted source of time the CA makes use of.

This source of time is based on a GPS signal and, as a backup, on a radio signal received from the Italian Istituto Elettrotecnico Nazionale (IEN) "Galileo Ferraris", the official time provider for Italy. The time receiver is certified by the IEN, the acquired time is then securely broadcast to the CNN systems thus ensuring that all these systems benefit from the same reliable, and therefore common, time.

Where necessary, a Time Stamp Token is issued to the above records/logs.

5.5.6 Archive Collection System (Internal or External).

Archived data are only handled within the related system, until they are copied for back up reasons.

5.5.7 Procedures to Obtain and Verify Archive Information

Confidential documentation is handled as per QCP [17].

Any person may request in writing to access his/her own relevant personal data. Upon positive validation of the request the requester is granted secure access to the relevant data.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

Records related to CA systems with restricted access may be only inspected by operators in charge of the specific system and by specifically appointed Auditors.

5.6 CA Key Changeover

When the CA self-signed certificate is approaching its validity end date, in particular when the current CA certificate “notAfter” value is at least just beyond the highest “notAfter” value among the issued subscription certificates⁸, an additional new instance of the CA is generated and a new key ceremony is carried out with the generation at least of a new key pair and of a new self-signed certificate. The latter certificate is sent to the CNIPA along a secure channel agreed with the CNIPA for inclusion in the Public List of Certifiers.

This new CA instance will thenceforth issue and manage the new subscription certificates, while the previous CA instance will only issue CRLs until all certificates issued with that key pair are expired. Once the last certificate has expired this CA instance is withdrawn from operation.

5.7 Compromise and Disaster Recovery

5.7.1 Incident and Compromise Handling Procedures

CNN has in operation an incident managing plan, that includes also a Disaster Recovery plan, to deal with incidents and disasters including:

1. CA system unrecoverable malfunctions;
2. Unrecoverable malfunctions of the CNN main site network connection to the internet;
3. CA key compromise;
4. Disaster affecting the central and/or backup site CA systems and facilities.

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

If the data and/or the media they are stored on at the CNN main site become unreadable, they SHALL be restored from their security copies previously created:

1. periodically, with an RPO⁹ and consistently with an RTO¹⁰ suitable to prevent data loss,
2. with a mirroring function.

⁸ Since the subscription certificates duration is three years, this occurs when the current date is just before the “notAfter” value in the self-signed CA certificate minus three years.

⁹ **Recovery point objective (RPO)**: a point in time to which data must be restored in order to be acceptable to the processes supported by that data.

¹⁰ **Recovery time objective (RTO)**: the time within which a business process must be recovered to avoid unacceptable break in continuity.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

If systems are unusable, they will be hot-swapped with other systems in the same cluster. Where necessary the Disaster Recovery site will be activated.

The CNN has in place agreements with different providers of service communication to the Internet, therefore, even in case of malfunction of one network, the redundant connection system will ensure a continuous service.

5.7.3 Entity (CNN) Private Key Compromise Procedures

5.7.3.1 CNN CA Certificates Signing Key Device Failure

If the subscription certificates signing device of the CNN CA fails, duly appointed officers, at least in dual control under the supervision of the Certificate Issuance Manager, will reestablish from its security copy and activate the private key that was originally kept inside the defective signing device. Depending on whether the original HSM is still operational this key re-instating will be performed on such HSM or on a new one that the CNN has in stock.

5.7.3.2 CNN CA Certificates Signing Key Compromise

Should the CA signing key used to issue the Notaries' subscription certificates be compromised, its revocation as per DPCM in force will be performed. A new CNN CA key pair creation will be performed.

The CNN SHALL inform all Notaries of this compromise, indicating that certificates and revocation status information signed with this CA key may no longer be absolutely trusted, even if their indicated issuance date is before the CA key compromise time. Therefore a signature can be trusted only if recipients have additional methods, like a TST or a PEC message, to prove that the time of this digital signature issuance was prior than the known CA key compromise time.

5.7.4 Disaster Recovery Capabilities After a Disaster

The CNN has in force a Disaster Recovery Plan that provides for activating a Disaster Recovery site, when necessary, and that provides for the following management phases.

1. Emergency – the last issued CRL is kept accessible to relying parties; new CRLs and certificates issuance may be issued with some delay, if events require operations to be started up at the back up site, but this will be given a high priority.

The above may not apply in cases of extreme severity and wide catastrophes, affecting all the CNN sites (main site, backup site, disaster recovery site), in which case specific Operational Procedure become effective.

2. Transition period management – functions will run normally at the main or in a back up site; in the latter case activities to bring the main site back to operation are initiated;

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

- Resume – normal operations are resumed in the original site, or in an alternative but definitive one.

In order to implement such plan, a Disaster Recovery site is fully equipped with mirror machinery, information, data and software.

5.8 CA Termination

In addition to stipulations as of the QCP [17], provisions in Dlgs 82/2005 will be implemented that require to:

- notify the CNIPA at least 60 days in advance;
- notify without any delay all CA certificate owners;
- communicate, along with the above notifications, whether the documentation required by the law to be kept is taken over by another CA, in which case this CA will be specified, or if it will be annulled, in which latter case all issued certificates will be revoked at operations cessation time.

6. TECHNICAL SECURITY CONTROLS

6.1 Key Pair Generation and Installation

6.1.1 Key Pair Generation

6.1.1.1 CNN CAs Key Pair Generation

The CNN CAs key pair generation is performed at least in dual control by authorized officers under the Certificate Issuance Manager's supervision.

Each HSM is initialized and its key pair generation function is activated by the authorized operators as per the HSM procedures assessed as compliant with the required certification.

A self signed ISO 9594-8 [2] compliant certificate is issued for the newly generated key pair, that is both published in the certificate repository and sent to the CNIPA on an agreed secure channel. The CNN CA SHALL then issue certificates for the CNIPA public keys, and publish them in its Directory. The CNIPA in turn creates an updated Public List of Certifiers and securely delivers it to the CNN CA that SHALL publish it on its CA web site.

6.1.1.2 Subjects

The subject triggers his/her own SSCD into creating the subjects' key pairs. Please refer to section 3.2.1 and related subsections.

Issued by:	Consiglio Nazionale del Notariato	Document type:	Certification Statement	Practice Statement
		Doc code:	CPS_CNN_1_0	
Document Title:	<i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>		Version:	1.0
			Attachments:	

6.1.1.3 Cross certified CAs

Only CAs that are present in the CNIPA Public list of Certifiers as active and accredited CAs can be cross certified by the CNN CA as regards Italy. Other foreigner CAs MAY be cross certified depending on the CNN decision.

These CAs SHALL agree with the CNN CA the mechanism through which they will provide a suitably secure certification request, that the CNN CA SHALL keep for at least 30 years, and they SHALL securely receive the corresponding certificate.

6.1.2 Private Key Delivery to Subscriber

Not applicable (please refer to § 3.2.1.1).

6.1.3 Public Key Delivery to Certificate Issuer

Please refer to section 3.2.1 and related subsections.

6.1.4 CA Public Key Delivery to Relying Parties

Section 4.9.6 exhaustively explains the signature verification process that also addresses how to securely retrieve the CA self signed certificate containing the CA Public key.

In addition to fetching the CNIPA Public List of Certifiers, if the Relying Party's CA is listed in it, this Public List can be accessed from the Relying Party's CA web site, although with a slightly lower reliability given the possibility of various types of attacks.

6.1.5 Key Sizes

The RSA keys generated in abundance by the CNN CA comply with the Italian rules of law in force.

At the moment this CPS is drafted:

1. Notaries' subscription keys length is at least 1024 bit.
2. CA keys length is at least 2048 bit.

6.1.6 Public Key Parameters Generation and Quality Checking

The public key parameters quality is ensured by the certification ITSEC level E3 High or ISO/IEC 15408 EAL4 of the adopted SSCD and HSM.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

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

6.1.7.1 CNN CAs keys usage

The sole keyUsage field bits in the self-issued ISO/IEC 9594-8 [2] CA certificates set to “on” are: **keyCertSign** + **cRLSign**,

6.1.7.2 Subjects keys usage

The sole keyUsage field bit in the issued ISO/IEC 9594-8 [2] subscription certificates set “on” is **nonRepudiation**¹¹.

6.2 Private Key Protection and Cryptographic Module Engineering Controls

CA and subjects key pairs are generated and securely kept inside the cryptographic devices (SSCD or HSM) that will use them to create signatures. Physical and organizational controls are implemented, consistently with the device type, to prevent the private key from being disclosed. Signing can only be performed inside the device.

Notaries are responsible to securely keep their own cryptographic devices and the relevant activation codes.

If the CNN CA cryptographic devices are disconnected, they require specific activation data and devices to be operated in order to newly become operational.

6.2.1 Cryptographic Module Standards and Controls

CA HSMs and subjects SSCDs are attested as complying with ITSEC at least E3-High security criteria, or with ISO/IEC 15408 at least EAL 4. Security criteria internationally acknowledged as equivalent can also be used, provided they are accepted by the CNIPA.

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

The Storage Master keys that wrap the CA private key can be exported from the HSM in multiple parts, according to a Secret sharing scheme that requires the usage of “n out of m” parts, each one under control by a specifically appointed officer, to rebuild the private key.

6.2.3 Private Key Escrow

Not applicable. Refer to § 4.12.

¹¹ With ISO/IEC 9594-8:2005 edition (incorporating Draft Technical Corrigendum 6 to 2001 edition) the keyword “nonRepudiation” has been substituted with “contentCommitment” with the following note: “*Note that it is not incorrect to refer to this keyUsage bit using the identifier nonRepudiation. However, the use of this identifier has been deprecated*”.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

6.2.4 Private Key Backup

Only the CA private keys are backed up, under secure procedures consistently with what is specified in section 6.2.2.

6.2.5 Private Key Archival

No stipulation.

6.2.6 Private Key Transfer Into or From a Cryptographic Module

Subjects' subscription keys are not transferred into their SSCD, since they are generated directly inside them.

CA private keys are backed up from the HSM and restored back under secure procedures consistently with what is specified in section 6.2.2.

6.2.7 Private Key Storage on Cryptographic Module

No stipulation.

6.2.8 Method of Activating Private Key

Subjects activate their SSCD private keys by means of the delivered PIN, as specified in sections 3.2.1.1 and **Errore. L'origine riferimento non è stata trovata..** After the first SSCD activation subjects have to change the initial PIN with a new secret one.

When an excessive number of erroneous activation data insertion occurs, the SSCD automatically deactivates. It can only be reactivated by using the PUK delivered to the subject along with the PIN.

CA private keys are activated according to the HSM specific procedure.

6.2.9 Method of Deactivating Private Key

SSCD private keys are deactivated by logging-off the signature application or by removing the device from the reader. If the SSCD has been in an idle log-in status for more than a fixed time or more than a fixed number of issued signatures, whichever comes first, it deactivates automatically, except when the SSCD is used in automated signing procedure, where specific application deactivation criteria are used.

CNN CA HSM private keys are deactivated by stopping HSM services directly on the console of the HSM by the Crypto Hardware Operator with the Security Officer Keys.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

6.2.10 Method of Destroying Private Key

SSCD private keys cannot be zeroised, therefore the only way to destroy them is to physically destroy the SSCD itself. At certificate expiration the subject may either destroy personally his/her SSCD or turn it back to the LRA that will destroy it at the subject's presence.

HSM private keys can be zeroised following a specific, manufacturer provided, procedure.

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

All public keys are archived, since all certificates (CAs', subjects', cross certified CAs') requests are kept by the CNN CA and backed up in the Disaster Recovery site.

6.3.2 Certificate Operational Periods and Key Pair Usage Periods

The subjects' private and public keys life span is of 36 months.

The CNN CA certificate signing key pair life span is of 12 years

6.4 Activation Data

6.4.1 Activation Data Generation and Installation

The activation data characteristics are defined in the Security Policy document.

6.4.2 Activation Data Protection

No additional stipulation as to what is specified in the related CP [17] regarding the CNN CA.

Subjects are securely delivered the SSCD activation codes (PIN and PUK) as specified in sections 3.2.1.1 and **Errore. L'origine riferimento non è stata trovata..**

Subjects SHALL change their PIN after its first usage and whenever they want and SHALL keep it securely, separated from the SSCD (DPCM 13/1/2004 art.7(3) letter b).

6.4.3 Other Aspects of Activation Data

In case of more than 3 erroneous PIN input the SSCD private key is deactivated.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

The CNN provided PUK is required to unlock the SSCD.

6.5 Computer Security Controls

A copy of all PKI related systems approved configurations is kept by the relevant Manager as an audit trail, that is periodically matched against the ones actually in use.

6.5.1 Specific Computer Security Technical Requirements

The following technical controls are implemented:

- Physical access controls to CA services are described in section 5.1.2.
- Passwords are enforced for all CA roles and PKI client applications, in compliance with the related Security Policies.
- Security related events are audited.
- On all PKI relevant systems and workstations, suitable anti-malware applications are installed and kept updated with due frequency.

6.5.2 Computer Security Rating

As required by the DPCM 13/1/2004, the CNN PKI devices and operating systems are conformant at least with security criteria equivalent to the following ITSEC or ISO/IEC 15408 levels. Security criteria internationally acknowledged as equivalent can also be accepted.

1. CA Signature creation devices (certified per ITSEC E3 High – ISO 15408 EAL4 or declared as conformant by the CNN CA in compliance with DPCM 12/10/2007)
2. Subject SSCD (certified per ITSEC E3 High – ISO 15408 EAL4)
3. Operating systems for certificate issuing systems and for directory systems (conformant with ITSEC F-C2/E2 – ISO 15408 EAL3)

6.6 Life Cycle Technical Controls

6.6.1 System Development Controls

No stipulation.

6.6.2 Security Management Controls

Security audit is implemented also using tools that are kept secure to prevent tampering.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

6.6.3 Life Cycle Security Controls

No stipulation.

6.7 Network Security Controls

The CNN PKI networks are dedicated subnets inside the CNN general network. They are protected with dedicated firewalls.

The CNN PKI systems are installed on computers, hardened to enable only the strictly necessary functions.

Communications are implemented along secured channels between:

- the CNN PKI site and the CNN backup site;
- the LRA computers and the subjects' systems on the one side and the RA on the other side; these secure channels are implemented by adoption of SSL.

6.8 Time-Stamping

No stipulation (this service is provided by another CA also listed in the CNIPA Public List of Certifiers).

7. CERTIFICATE, CRL, AND OCSP PROFILES

7.1 Certificate Profile

Subscription and CA certificates, and CRLs comply with ISO/IEC 9594-8 [2].

Subscription certificate profiles comply with RFC 3280 [13], RFC 3739 [16], ETSI TS 101 862 [18] and Italian rules of law.

Certificate fields are populated as per the base certificate structure (ISO 9594-8 [2]).

Note: provisions specified in this chapter abide by the currently in force Italian rules of law. They will be adapted to new Italian rules of law when they come in force.

X509 field	Value
EE - DN string type preference	UTF8
EE - DN Title	<variable>
EE - DN Common Name	<variable>

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

EE - DN Qualifier	<variable>
EE - DN Serial Number	<variable>
EE - DN Given Name	<variable>
EE - DN Surname	<variable>
EE - DN Organizational Unit Name	<variable>
EE - DN Organization Name	<variable>
EE - DN Country Name	<variable>
EE - certificate validity	3 years
EE - Key properties: Key usage (CRITICAL)	Non repudiation
EE - Key properties: Key size	>=1024
EE - Extensions: Authority Key Identifier	Hexadecimal of Auth. Key Id. (160bit SHA-1)
EE - Extensions: Subject Key Identifier	Hexadecimal of Sub. Key Id.
EE - Extensions: CPS oid 1	1.3.6.1.4.1.8526.1.1.3
EE - Extensions: CPS uri 1	Link to MO of CNN
EE - Extensions: CPS oid 2	1.3.6.1.4.1.8526.1.1
EE - Extensions: CPS uri 2	Link to CPS of CNN
EE - Extensions: Issuer Alt Name	<CA email address>
EE - Extensions: Subject Alt Name (rfc822)	<user email address>
Extensions: CRLDP uri	ldap://ldap.ca.notariato.org/cn=Consiglio Nazionale del Notariato Certification Authority,ou=Servizio Firma Digitale,o=Consiglio Nazionale del Notariato,c=IT
EE PROD – Extensions: AIA OCSP	http://ocsp.ca.notariato.org
EE - Extensions: QCS Compliance statement	
EE - Extensions: QCS retention statement	20 years
EE – Extensions QCS SSCD	

7.1.1 Version Number(s)

The certificate “version” field contains value “2”, indicating an ISO/IEC 9594-8 version 3 certificate.

7.1.2 Certificate Extensions

The following extensions are required.

- a) keyUsage (OID: 2.5.29.15), with contentCommitment (formerly “ nonRepudiation”) bit (1) on; this extension is CRITICAL;
- b) certificatePolicies (OID: 2.5.29.32), specifying the OID of the Qualified Certificate Policy¹² and the URIs pointing to the Manuale Operativo [6] and to this CPS in abidance of which the certificate was issued; this extension is NOT critical;

¹² ETSI TS 1021 456 has been abided by.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

- c) CRLDistributionPoints (OID: 2.5.29.31), specifying the URL pointing to the CRL where revocation (and suspension) information related to the certificate at issue SHALL be published when necessary; HTTP or LDAP schema is used; where more than one URL is specified all these values SHALL point to a set of information consistent with the provisions of the latest published CRL; this extension is NOT critical;
- d) authorityKeyIdentifier (OID: 2.5.29.35); this extension is NOT critical;
- e) subjectKeyIdentifier (OID: 2.5.29.14); this extension is NOT critical;
- f) qcStatements with the following values specified in ETSI TS 101 862:
 - 1) id-etsi-qcs-QcCompliance (OID: 0.4.0.1862.1.1);
 - 2) id-etsi-qcs-QcLimitValue (OID: 0.4.0.1862.1.2); where present it specifies the limit on the value of transactions for which the certificate can be used;
 - 3) id-etsi-qcs-QcRetentionPeriod (OID: 0.4.0.1862.1.3); the value is greater or equal to «20»;
 - 4) id-etsi-qcs-QcSSCD (OID: 0.4.0.1862.1.4).

This extension is NOT critical.

- g) subjectAlternativeName (OID: 2.5.29.17):
 - 1) rfc822Name: where present it specifies the email address of the subject

Additionally, the following extensions MAY be used:

- h) SubjectDirectoryAttributes (OID: 2.5.29.9); this extension SHALL not contain the same information as in the “ issuer” and “ subject” fields, but MAY contain other information; where the dateOfBirth attribute (OID: 1.3.6.1.5.5.7.9.1) is specified, it is coded in ormato GeneralizedTime format; this extension is NOT critical.
- i) authorityInfoAccess (OID: 1.3.6.1.5.5.7.1.1); this extension, where used to access an OCSP Responder, SHALL specify in the accessDescription field the ways to access the OCSP service and SHALL indicate:

Issued by:	Consiglio Nazionale del Notariato	Document type:	Certification Statement	Practice Statement
		Doc code:	CPS_CNN_1_0	
Document Title:	<i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>		Version:	1.0
			Attachments:	

- 1) accessMethod, specifying id-ad-ocsp (OID: 1.3.6.1.5.5.7.48.1);
- 2) accessLocation, specifying the URI that points to the CNN CA OCSP Responder. This URI provides an absolute address to the OCSP Responder. Where more access Description are specified indicating the id-ad-ocsp in the accessMethod attribute, these provisions specify alternate paths to retrieve, via OSCP the status of the certificate at issue.

This extension is NOT critical.

Note: The CNN CA is deploying an experimental OCSP Responder. Please refer to § 4.9.9 for some more detail.

Additional extensions MAY be added, provided they are not CRITICAL and meet the following specifications:

1. ETSI TS 101 862 [18]
2. ETSI TS 102 280 [20].

7.1.3 Algorithm Object Identifiers

Algorithm	OID
rsaEncryption	1.2.840.113549.1.1.1
sha-1WithRSAEncryption	1.2.840.113549.1.1.5
SHA-1	1.3.14.3.2.26

7.1.4 Name Forms

For Type of names see 3.1.1

The Subject Name is an X.500 distinguished name.

Any name under this CP/CPS has C=IT, O=<district of Notary>. A complete SubjectDN is composed as in the following example:

dnQualifier = 1 SERIALNUMBER = IT:PCCPLA46P24L378Y T = Notaio SN = Piccoli G = Paolo CN = Paolo Piccoli O = Distretto di Trento:00000000000 C = IT

7.1.5 Name Constraints

No stipulation.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

7.1.6 Certificate Policy Object Identifier

This CPS refers to the “QCP public + SSCD” as specified in TS 101 456 [17] identified with the following OID

- itu-t(0) identified-organization(4) etsi(0) qualified-certificate-policies(1456)policy-identifiers(1) qcp-public-with-sscd (1) (ETSI TS 101 456 – QCP public + SSCD)

7.1.7 Usage of Policy Constraints Extension

No stipulation.

7.1.8 Policy Qualifiers Syntax and Semantics

This attribute specifies the address where this CPS can be found, as per RFC 3280 [13].

The CPSuri qualifier of the extension “certificatePolicies” contains pointers in the form of URIs to this Certification Practice Statement (CPS) and to the Manuale Operativo [6].

7.1.9 Processing Semantics for the Critical Certificate Policies Extension

No stipulation: CNIPA Deliberation 4/2005, currently in force, requires that the **certificatePolicy** extension is not critical (see Section 7.1.2).

7.2 CRL Profile

7.2.1 Version Number(s)

The CRL version number field contains the integer “1”, indicating a ISO 9594-8 version 2 Certificate Revocation List.

7.2.2 CRL and CRL Entry Extensions

The CRL is conformant with RFC 3280 [13].

7.2.2.1 CRL Extensions

As per CNIPA Del. 4/2005 no Delta CRLs is supported, which excludes extensions related to Delta CRLs.

- Authority Key Identifier: Hexadecimal representing 160bit SHA-1 of the CA public key
- CRL Number: implemented as per RFC 3280, § 5.2.3, as a monotonically increasing sequence number per CRL Type (e.g. for each partitioned CRL)

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

7.2.2.2 CRL Entry Extensions

The following CRL Entry extensions are implemented.

1. Serial number: serial number of end entity certificate;
2. Reason Code: refer to § 4.9.1.4;
3. Invalidity Date: date of revocation

7.3 OCSP Profile

OCSP is at the moment of drafting this CPS an experimental service of the CNN CA. Its profile will be defined later on.

7.3.1 Version Number(s)

No stipulation.

7.3.2 OCSP Extensions

No stipulation.

8. COMPLIANCE AUDIT AND OTHER ASSESSMENTS

CNN internal Audit personnel regularly carries out Audit on each and all security related PKI procedures. An external Auditing Organization yearly perform audit revision.

All personnel that performs tasks related to CA and/or LRA related activities is audited.

The purpose is to ascertain if the following requirements are met:

1. actual compliance to procedures by personnel,
2. procedures efficaciousness and effectiveness,
3. actual possibility for the personnel to comply with the procedures.

The overall CNN security can be reviewed depending on these audit inspections outcomes.

8.1 Frequency and Circumstances of Assessment

In section 8.4 the audit frequency is specified.

CNN Internal Auditors may perform both scheduled and extemporaneous auditing.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

Additionally, audit inspections on the Notartel Quality System are performed at regular intervals by an external Auditing Organization

8.2 Identity/Qualifications of Assessor

The Internal Auditing is performed by personnel of the internal CNN auditor department.

The External Auditing Company is certified to ISO 9001:2000.

8.3 Assessor's Relationship to Assessed Entity

The PKI department has no hierarchical relationships with the Internal Auditing Department.

External Auditing is performed by an independent Company

8.4 Topics Covered by Assessment

Audit inspections are basically enacted on the following.

1. Audit log integrity
2. Audit log content
3. Compliance with the procedures set forth in the following sections of this CPS:
 - a. 3 – Identification and authentication
 - b. 4 – Certificate Life-Cycle Operational Requirements
 - c. 5 – Facility, Management, and Operational Controls
 - d. 6 – Technical Security Controls
 - e. 7 – Certificate, CRL, and OCSP Profiles
 - f. 9 – Other Business and Legal Matters; this area in particular requires a sound procedural (i.e. legal, financial, insurance, etc.), more than technical, audit skill.
4. Cryptographic devices inventory correctness
5. Correctness of backup systems and devices inventory
6. Backup systems and devices operability
7. Matching the actual configuration of HW, SW, PKI, firewall, IDS systems, with their planned configuration as kept by the relevant appointed Manager.

Audit inspections addressing ICT topics are mostly based on audit log perusal; in some cases they may do penetration tests to ascertain that the stated security measures are in force and effective.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

8.5 Actions Taken as a Result of Deficiency

Actions to be taken will be decided by the single manager mentioned in section 8.6, or even by the CNN Top Management, depending on the findings.

Deliberate security violation will be prosecuted as per the rules of law currently in force.

Where the violation may have exposed at risk the CA private key, provisions in section 5.7.3.2 apply.

8.6 Communications of Results

Audit outcomes documents shall be reported to all the interested managers in charge of functions related to: security, CA functions, RA functions, certificate status and other information publishing, infrastructures, and, if the audit is performed by an external Company, internal auditing.

9. OTHER BUSINESS AND LEGAL MATTERS

9.1 Fees

9.1.1 Certificate Issuance or Renewal Fees

The cost of certificates, with a three years duration, is established at service activation time, in no case they cost more than 15,00 euro.

9.1.2 Certificate Access Fees

No stipulation.

9.1.3 Revocation or Status Information Access Fees

No stipulation.

9.1.4 Fees for Other Services

No stipulation.

9.1.5 Refund Policy

The general provisions in Directive 1999/93/EC art. 6 on Liability apply, as implemented in Dlgs 82/2005, art. 30.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

9.2 Financial Responsibility

9.2.1 Insurance Coverage

As per CNIPA/CR/48, being the CNN a Public Administration, the CNN is not required to subscribe a specific insurance policy addressing the CA activity risks.

9.2.2 Other Assets

No stipulation.

9.2.3 Insurance or Warranty Coverage for End-Entities

No stipulation.

9.3 Confidentiality of Business Information

9.3.1 Scope of Confidential Information

All Business related information, relevant to the CA and/or Notaries and CNDs, are kept confidential, as well as all personal data in abidance with the DLgs 196/2003 that implement the Directive 95/46/EC.

9.3.2 Information Not Within the Scope of Confidential Information

Information in Certificates, CRL, OCSP Responses, where applicable, and all information that is published in the CNN CA public web site, is not to be considered confidential.

9.3.3 Responsibility to Protect Confidential Information

All CNN department is responsible to protect the confidentiality of the information it manages classified as confidential at CNN and Notartel level.

9.4 Privacy of Personal Information

9.4.1 Privacy Plan

All information that relates to personal data is confidential and is protected as per DLgs 196/2003, implementing EU Directive 45/96/EC, as per the applicable rules of law in force. Additional specific measures are in force in conformity of the DLgs 196/2003 detailed requirements.

Confidentiality is protected for all registration related information, as well as all information exchanged among the CA branch offices and the CA and any other information users will classify as confidential.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

9.4.2 Information Treated as Private

All information related to the CNN CA security as well to the users' SSCD use and activation is required to be treated as private.

9.4.3 Information Not Deemed Private

No stipulation.

9.4.4 Responsibility to Protect Private Information

Users to whom the CNN related information are entrusted, that have been indicated as private, have specific obligations regarding ensuring their secrecy.

9.4.5 Notice and Consent to Use Private Information

When personal and however private information is collected from natural or legal persons, they are notified in accordance with Directive 45/96/EC and Digs 196/2003, asking for their consent to process it too.

9.4.6 Disclosure Pursuant to Judicial or Administrative Process

No stipulation in addition to what is law conformant.

9.4.7 Other Information Disclosure Circumstances

No stipulation.

9.5 Intellectual Property rights

The CNN owns all the Intellectual Property rights regarding the documents developed for the CA activity.

All HW and SW products, the CNN provides Notaries, its personnel and its subcontractors with, in order to make them use and/or implement PKI related functions, is covered by Intellectual Property rights.

9.6 Representations and Warranties

All information directly submitted to the CA by the Notaries is provided under the submitters' responsibility of authenticity.

Apart from this, the CNN CA warrants that all information it is provided with, is painstakingly replicated into the information provided to the public, such as certificates and revocation information.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

9.6.1 CA Representations and Warranties

No additional stipulation as to the previous subsection.

9.6.2 RA Representations and Warranties

No additional stipulation as to the previous subsection.

9.6.3 Subscriber Representations and Warranties

9.6.4 Relying Party Representations and Warranties

No additional stipulation as to the previous subsection.

9.6.5 Representations and Warranties of Other Participants

No stipulation.

9.7 Disclaimers of Warranties

Certificates issued by the CNN CA can only be used to ascertain the authenticity of origin and integrity of content of the documents a signature refers to, supported by such certificate.

Certificate revocation information can only be used to assess the correspondent certificate validity, effective on the revocation publication time.

9.8 Limitations of Liability

The CNN CA can only be held liable consistently with what is stated in art. 6 of the EU Directive 1999/93/EC as implemented in Dlgs 82/2005, art. 30. In particular it cannot be held liable in all cases when it has not acted negligently, or when the damage depends on the certificate being used beyond its limitations of use, or when the certificate owner has not complied with what is specified in this CPS and in the relevant contract, or when any party has not complied with this CSP stipulations.

9.9 Indemnities

No stipulation.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement	Practice
	Doc code: CPS_CNN_1_0	
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0	Attachments:

9.10 Term and Termination

9.10.1 Term

No stipulation

9.10.2 Termination

No stipulation

9.10.3 Effect of Termination and Survival

No stipulation

9.11 Individual Notices and Communications with Participants

Any change in the agreements binding the CA to its possible certification service providers, as well as the CA itself to the Notaries, shall be submitted to the counterpart with the timing and terms indicated in the specific agreements

9.12 Amendments

9.12.1 Procedure for Amendment

Amendments to this CPS may be applied whenever changes to the applicable Italian rules of law, to the related standards, to statutory requirements occur that make the current text obsolete, in parts or as a whole.

The CNN CA will review this CPS consistently with the new rules and legal or technical requirements within a time period, since their coming to force, that depend on the specific change.

9.12.2 Notification Mechanism and Period

The CNN CA SHALL personally notify in writing, that includes digitally signed documents, Notaries of the next new CPS publication in advance.

Relying Parties will be notified by means of publication on the CNN web site of a suitable communication, that will occur in advance before the new CPS publication

9.12.3 Circumstances Under Which OID Must be Changed

No stipulation.

Issued by: Consiglio Nazionale del Notariato	Document type: Certification Statement Doc code: CPS_CNN_1_0	Practice Statement
Document Title: <i>Consiglio Nazionale del Notariato Qualified Certification Authority – Certification Practice Statement</i>	Version: 1.0 Attachments:	

9.13 Dispute Resolution Provisions

This service is offered to Notaries as regulated by the Italian law and the Manuale Operativo [6]. To resolve each controversy relative to its validity, interpretation, execution and resolution, the “Foro di Roma” (Tribunal of Rome) will be competent.

9.14 Governing Law

The Italian rules of law in force at the moment of a possible dispute will govern its settling.

9.15 Compliance with Applicable Law

The Italian rules of law govern this CSP.

9.16 Miscellaneous Provisions

No stipulation: these issues will be handled in the single certification service contract.

9.16.1 Entire Agreement

No stipulation.

9.16.2 Assignment

No stipulation.

9.16.3 Severability

Should, due to changes in the rules of law, or to a Court sentence, or to any other juridical instrument, one or more stipulation of the present Certification Practice Statement become no more law-abiding, the other stipulations applicability will not be automatically affected.

During the time period during which this CSP is reviewed, the present CPS will therefore be interpreted as if the inapplicable section(s) do(es) not exist.

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

No stipulation.

9.17 Other Provisions

No stipulation.