

NAVER BUSINESS PLATFORM Corp.
Certification Practice Statement V1.4.2

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INTRODUCTION

1.1 Overview

This document defines the company's certification policy, operational management procedures, and other necessary instructions in servicing the Certification Authority provided by NAVER BUSINESS PLATFORM Corp.

This document is created in accordance with "RFC 3647: Internet X.509 Public Key Infrastructure Certificate Policy and Certification Practices Framework", the international standard document that defines the Certificate Policy and Certification Practice Statement (CPS) framework. The company's Certificate Authority issuing the Secure Server Certificate (hereinafter "SSL") conforms to the current version of "CA/Browser Forum (CABF) Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates" published by the CA/Browser Forum at <http://www.cabforum.org>.

In the event of any inconsistency between this CPS and the Baseline Requirements, the Baseline Requirements take precedence over this document.

1.2 Document Name and Identification

This document is NAVER BUSINESS PLATFORM Corp. Certification Practice Statement. It describes the policies for the operation and management of the "NAVER Global Root Certification Authority" and "NAVER Secure Certification Authority", which are the Certification Authorities operated by NAVER BUSINESS PLATFORM. In particular, it specifies the legal, entrepreneurial, and technical requirements to grant, issue, renew, reissue, manage, use, and revoke certificates issued and to provide certification services to all relying parties, including subscribers.

This document covers all the certificates issued and signed by the following Certification Authority.

Subject: CN = NAVER Secure Certification Authority 1, O = NAVER BUSINESS PLATFORM Corp., C = KR

certificatePolicies.policyIdentifiers: 1.2.410.200081.2.1.1

A history of changes to this document is included in APPENDIX B.

1.3 PKI Participants

The participants inside the Public Key Infrastructure (hereinafter "PKI") of NAVER BUSINESS PLATFORM are as follows.

- ① Certification Authorities
- ② Registration Authorities
- ③ Subscribers
- ④ Relying Parties

1.3.1 Certification Authorities

The Certification Authority (CA) is a term that refers to entities authorized to issue, renew, reissue, revoke, and manage certificates. NAVER BUSINESS PLATFORM directly operates the Root Certification Authorities and Certification Authorities.

The NAVER Global Root Certification Authority is the Root Certification Authority that is self-signed and operated directly on NAVER BUSINESS PLATFORM. This authority issues CA certificates to subordinate CAs of NAVER BUSINESS PLATFORM.

The NAVER Secure Certification Authority issues subscriber certificates under the approval of NAVER BUSINESS PLATFORM in accordance with this CPS. The CA can be operated with multiple CA Certificates according to the algorithms and certificate profiles specified in this document.

1.3.2 Registration Authorities

The Registration Authorities (RA) are entities that approve and perform requests to issue, renew, reissue, and revoke subscriber certificates. The RAs identify and authenticate the individuals or entities requesting certificates and validate the submitted application information.

All the RA functions will be performed by NAVER BUSINESS PLATFORM and none will be delegated to third parties.

1.3.3 Subscribers

A subscriber is an end user of a certificate issued by the CAs capable of using, and authorized to use, the private key that corresponds to the public key listed in a certificate.

A subscriber is an individual or entity that has end-user certificates issued by NAVER BUSINESS PLATFORM CA. If NAVER BUSINESS PLATFORM approves the issuance of certificates according to the procedures in Section 3.2 Initial Identity Validation of this document, individuals and entities outside of Korea may also become subscribers. To use certificates, all the subscribers are required to consent to the subscriber responsibilities and obligations specified in the "SSL Agreement" before issuing certificates.

1.3.4 Relying Parties

A relying party is any individual or entity that verifies a digital signature with a certificate issued by NAVER BUSINESS PLATFORM or decrypts an encrypted document or a message.

1.3.5 Other Participants

Not applicable.

1.4 Certificate Usage

1.4.1 Appropriate Certificate Uses

Certificates issued pursuant to this CPS may be used for all legal authentication, encryption, access control, and digital signature purposes, as designated by the key usage and extended key usage fields found within the certificate.

1.4.2 Prohibited Certificate Uses

Certificates do not guarantee that the Subject is trustworthy, honest, reputable in its business dealings, compliant with any laws, or safe to do business with. A certificate only establishes that the information in the certificate was verified as reasonably correct when the certificate issued.

Certificates issued under this CPS may not be used (i) for any application requiring fail safe performance such as (a) the operation of nuclear power facilities, (b) air traffic control systems, (c) aircraft navigation systems, (d) weapons control systems, or (e) any other system whose failure could lead to injury, death or environmental damage; or (ii) where prohibited by law.

Additionally, Certificates issued under this CPS may not be used for “traffic management” or man-in-the middle purposes.

1.5 Policy Administration

1.5.1 Organization Administering the Document

NAVER BUSINESS PLATFORM establishes and amends CPS.

1.5.2 Contact Person

Contact details of NAVER BUSINESS PLATFORM for cases including, but not limited to, security issues such as reporting weaknesses, requests for certification revocation related to CA services, suspected key damage, misuse and improper use of certificates are as follows:

- E-mail: dl_rootca@navercorp.com
- Address: NAVER BUSINESS PLATFORM, 117, Bundangnaegok-ro, Bundang-gu, Seongnam-

si, Gyeonggi-do, Republic of Korea (13529)

1.5.3 Person Determining CPS Suitability for the Policy

In the case that the department head of IT Security in NAVER BUSINESS PLATFORM determines that a change to the CPS is necessary, it will be amended.

NAVER BUSINESS PLATFORM maintains and manages amendment records of the CPS, including:

- ① CPS version
- ② Overview of applicable tasks and **its** scope
- ③ CPS amendment records
- ④ Regulation of amended CPS
 - Amendment contents
 - Reason for amendment, etc.

1.5.4 CPS Approval Procedures

NAVER BUSINESS PLATFORM may amend this CPS. Any changes will be disclosed to the address listed in Section 1.5 of this document. NAVER BUSINESS PLATFORM's amendments of the CPS will generally have no effect on the relying parties. However, if NAVER BUSINESS PLATFORM will determine that changes have a significant impact on the relying parties, it may give notice to such participants in advance.

This CPS is published at <https://certificate.naver.com/bbs/initCrtfcJob.do>

The amended CPS will become effective fifteen (15) days after it has been published and be binding on all the participants in NAVER BUSINESS PLATFORM from that point forward.

1.6 Definitions and Acronyms

1.6.1 Definitions

Affiliated Organization

An organization that has an organizational affiliation with a Subscriber and that approves or otherwise allows such affiliation to be represented in a certificate

Applicant

An entity applying for a certificate.

Application Software Vendor

A software developer whose software displays or uses NAVER BUSINESS PLATFORM certificates and distributes NAVER BUSINESS PLATFORM root certificates.

Base Domain

A Domain Name which is formed by pruning one or more labels from the left side of a FQDN. Base Domains do not include public suffixes or any Domain Name which is created by removing one or more labels from the left side of a public suffix.

CA/Browser Forum

A group made up of Certificate Authorities and Browsers that establish and manage the requirements all public Certificate Authorities must meet.

Certificate Transparency

An open framework for monitoring and auditing digital certificates. Crypto-module A hardware device such as a smartcard, token or hardware security module that generates and manages cryptographic keys securely.

Entropy

The randomness collected by a system for use in cryptography or other uses that require random data.

Key Pair

A Private Key and associated Public Key.

OCSP Responder

An online software application operated under the authority of NAVER BUSINESS PLATFORM and connected to its repository for processing certificate status requests.

Private Key

The key of a key pair that is kept secret by the holder of the key pair, and that is used to create digital signatures and/or to decrypt electronic records or files that were encrypted with the corresponding Public Key. Public Key The key of a key pair that may be publicly disclosed by the holder of the corresponding Private Key and that is used by a Relying Party to verify digital signatures created with the holder corresponding Private Key and/or to encrypt messages so that they can be decrypted only with the holder's corresponding Private Key.

Punycode

Punycode is a way to represent Unicode with the limited character subset of ASCII supported by the Domain Name System.

RA Practices Statement

A statement of the practices, which an RA follows.

Relying Party

An entity that relies upon either the information contained within a certificate or a time stamp token.

Subject

The entity named in the certificate.

Subscriber

As applicable, the entity identified as the Subject in the certificate and/or the entity that contracted with NAVER BUSINESS PLATFORM for the certificate's issuance.

Subscriber Agreement

An agreement that governs the issuance and use of a certificate that the Applicant must read and accept before receiving a certificate.

Trusted Agent

An accountant, lawyer, notary, postal carrier or any entity certified by a State or National Government as authorized to confirm identities or other reliable third party.

WebTrust

The current version of CPA Canada's WebTrust Program for Certification Authorities.X.509

The ITU-T standard for Certificates and their corresponding authentication framework

1.6.2 Acronyms

CA

Certificate Authority or Certification Authority

CABF

"CA/Browser" as in "CAB Forum"

CP

Certificate Policy

CPS

Certification Practice Statement

CRL

Certificate Revocation List

CSR

Certificate Signing Request

ETSI

European Telecommunications Standards Institute

FIPS

(US Government) Federal Information Processing Standard

FQDN

Fully Qualified Domain Name

FTP

File Transfer Protocol

HSM

Hardware Security Module

HTTP

Hypertext Transfer Protocol

ICANN

Internet Corporation for Assigned Names and Numbers

IETF

Internet Engineering Task Force

NIST

National Institute of Standards

OCSP

Online Certificate Status Protocol

OID

Object Identifier

PKCS

Public Key Cryptography Standard

PKI

Public Key Infrastructure

PKIX

IETF Working Group on Public Key Infrastructure

RA

Registration Authority

RFC

Request for Comments (at IETF.org)

RSP

Repository Service Provider

SHA

Secure Hashing Algorithm

SSL

Secure Sockets Layer

TLD

Top Level Domain

TLS

Transport Layer Security

TSA

Time-stamp authority

TSP

Time-stamp policy

TST

Time-stamp token

URL

Uniform Resource Locator

UTC

Coordinated Universal Time

2. PUBLICAION AND REPOSITORY RESPONSIBILITIES

2.1 Repositories

The repository operated by NAVER BUSINESS PLATFORM covers the following information:

- ① Certification Practice Statement(CPS)
- ② Most recently issued certificate revocation list(CRL)
- ③ Most recently issued CA certificate revocation list(ARL)
- ④ Root CAs and CA certificates issued by NAVER BUSINESS PLATFORM CAs
- ⑤ Other documents or information deemed necessary for disclosure on NAVER BUSINESS PLATFORM

2.2 Publication of Certification Information

NAVER BUSINESS PLATFORM publishes the information about the issuance and management of certificates on a website so that it will be available to any person at any time.

1. On the web: <https://certificate.naver.com>
2. By email to: dl_rootca@navercorp.com
3. By mail addressed to: NAVER BUSINESS PLATFORM, 117, Bundangnaegok-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea (13529)
4. By telephone Tel: 1566-3880
5. By fax: (031)784-1800

2.3 Time or Frequency of Publication

The CRL is updated promptly upon the revocation of a certificate within one (1) day following revocation. Generally, the CRL is periodically updated and reissued at least every day, and their validity period is limited to seven (7) days.

NAVER BUSINESS PLATFORM revises the CPS at least annually regardless of any changes, and continues to update as needed to the latest version of the CA Browser Forum Baseline

Requirements.

2.4 Access Controls on Repositories

The Repository is publicly available. NAVER BUSINESS PLATFORM operates physical and logical security controls to protect the repository from unauthorized modification or deletion.

3. IDENTIFICATION AND AUTHENTICATION

3.1 Naming

3.1.1 Type of Names

NAVER BUSINESS PLATFORM issues Certificates with non-null subject DNs. The constituent elements of the subject DN conform to ITU X.500.

- Domain Validation Subscriber Certificates contain a distinguished name in the Subject name field, and incorporate the following attributes:

CN=common name

- Organization Validation Subscriber Certificates contain a distinguished name in the Subject name field, and incorporate the following attributes:

CN=common name

O=organization name

OU=organizational unit

L=locality

S=state or province

C=country code

NAVER BUSINESS PLATFORM does not issue pseudonymous Certificates as Section 3.1.3 of this CPS.

3.1.2 Need for Names to be Meaningful

NAVER BUSINESS PLATFORM puts meaningful names in both the subjectDN and the issuerDN fields of Certificates.

3.1.3. Anonymity or Pseudonymity of Subscribers

NAVER BUSINESS PLATFORM does not issue anonymous or pseudonymous Certificates.

3.1.4 Rules for Interpreting Various Name Forms

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

3.1.5 Uniqueness of Name

NAVER BUSINESS PLATFORM does not, in general, enforce uniqueness of subject names. However, name uniqueness is enforced through the domain name system controlled by ICANN and that any FQDN in a Common Name must appear in a Subject Alternative Name in the certificate that has been verified in accordance with section 3.2.2.4. Also, the serial numbers assigned to certificates are unique, and generated serial numbers are not reused.

3.1.6 Recognition, Authentication, and Role of Trademarks

Subscribers may not request certificates with content that infringes on the intellectual property rights of another entity. Unless otherwise specifically stated in this CPS, NAVER BUSINESS PLATFORM does not verify an Applicant's right to use a trademark and does not resolve trademark disputes. NAVER BUSINESS PLATFORM may reject any application or require revocation of any certificate that is part of a trademark dispute.

3.2 Initial Identity Validation

3.2.1 Method to Prove Possession of Private Key

A certificate applicant normally proves the ownership of his/her private key by providing a PKCS#10-formatted Certificate Signing Request, or a cryptographically equivalent proof to NAVER BUSINESS PLATFORM.

3.2.2 Authentication of Organization Identity

NAVER BUSINESS PLATFORM identifies and validates the applicant and all the persons, objects, devices, and domains specified in a certificate under the following circumstances:

- During the certificate application process
- During the certificate reissuance process

The appropriate validation of an applicant's proxy must be performed to ensure the right to request revocation within the scope required by this CPS. All subject information to be contained in a NAVER BUSINESS PLATFORM certificate shall conform to the requirements of this CPS and be validated in accordance with the procedures in this CPS. Such verification process is intended for:

- Identifying the applicant requesting NAVER BUSINESS PLATFORM certificate; or

- Confirming the existence and identity of the subject; or
- Confirming the physical location of the subject (the business presence in the physical address); or
- Confirming the ownership (or exclusive right) (if applicable) of the domain name to be included in a certificate; or
- Confirming the subject ownership and control of the device's name to be included in a certificate (if applicable); or
- Confirming whether the applicant is authorized to request a certificate.

3.2.2.1 Identity

For Organization Validation Subscriber Certificate, NAVER BUSINESS PLATFORM verify the identity and address of the Applicant using documentation provided by, or through communication with, at least one of the following:

1. A Government agency in the jurisdiction of the Applicant's legal creation, existence, or recognition;
2. A third party database that is periodically updated and considered a Reliable Data Source;
3. A site visit by the CA or a third party who is acting as an agent for the CA; or
4. An Attestation Letter.

Alternatively, NAVER BUSINESS PLATFORM may verify the address of the Applicant (but not the identity of the Applicant) using a utility bill, bank statement, credit card statement, government-issued tax document, or other form of identification that the CA determines to be reliable.

Generally, the certificate application is submitted online. When an applicant completes and submits an online form on the official website, NAVER BUSINESS PLATFORM verifies:

- The identity of the organization and applicant representative; and
- The address of the organization

Organization Identity	<ol style="list-style-type: none"> 1. The applicant or application representative submits information that can be proved to NAVER BUSINESS PLATFORM(Ex: Business License, Government issued tax document) 2. Inquiry and verification of information submitted by the applicant or applicant representative in a reliable third party database 3. Verification of organization and applicant representative identity by contacting through the information submitted by the applicant or applicant representative and contact information verified in a reliable third-party database
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Applicant Representative Identity	<p>4. Fill out and submit the applicant representative's name, contact information, and institutional affiliation before or during the certificate application</p> <p>5. While proceeding with the 3rd process of Organization Identity above, identity verification including applicant representative's employment status and representative qualification</p>
Organization Address	<p>Only verified address information can be contained geographical properties in Subject field of the Organization Validation Subscriber Certificate.</p> <p>The information submitted by the applicant is compared and verified with a reliable third-party database. If there is an international standard or an official government standard for address, it will be followed first.</p> <p>The general criteria for NAVER BUSINESS PLATFORM to determine the address included in the certificate subject properties are as follows:</p> <ul style="list-style-type: none"> • Country Name (C): Using a two-letter country code according to ISO 3166-1 Alpha-2 • State or Province (S): Using the subdivision name where the subdivision category in State or Province according to ISO 31661-2, and not to be abbreviated • Locality or City (L): The Locality field is the official English name of city or town

Under special circumstances, NAVER BUSINESS PLATFORM may also verify the identity of the organization and applicant representative through a site visit and face-to-face method.

3.2.2.2 DBA/Trade name

If the Subject Identity Information is to include a DBA or tradename, NAVER BUSINESS PLATFORM verify the Applicant's right to use the DBA/tradename using at least one of the following:

1. Documentation provided by, or communication with, a government agency in the jurisdiction of the Applicant's legal creation, existence, or recognition;
2. A Reliable Data Source;
3. Communication with a government agency responsible for the management of such DBAs or tradenames;
4. An Attestation Letter accompanied by documentary support; or
5. A utility bill, bank statement, credit card statement, government-issued tax document, or other form of identification that the CA determines to be reliable.

3.2.2.3 Verification of Country

See Section 3.2.2.1

3.2.2.4 Validation of Domain Authorization or Control

3.2.2.4.1 Email, Fax, SMS, or Postal Mail to Domain Contact

(in accordance with section 3.2.2.4.2 of the Baseline Requirements)

Confirming the Applicant's control over the FQDN by sending a Random Value via email, fax, SMS, or postal mail and then receiving a confirming response utilizing the Random Value

The Random Value is generated by NAVER BUSINESS PLATFORM and remains valid for use in a confirming response for no more than 30 days from its generation;

3.2.2.4.2 Constructed Email to Domain Contact

(as defined in section 3.2.2.4.4 of the Baseline Requirements)

(i) sending an email to one or more addresses created by using 'admin', 'administrator', 'webmaster', 'hostmaster', or 'postmaster' as the local part, followed by the at-sign ("@"), followed by an Authorization Domain Name (ii) including a Random Value in the email, and (iii) receiving a confirming response utilizing the Random Value.

The Random Value is generated by NAVER BUSINESS PLATFORM and remains valid for use in a confirming response for no more than 30 days from its generation;

3.2.2.5 Authentication of an IP Address

NAVER BUSINESS PLATFORM does not issue a Certificate using IP Address.

3.2.2.6 Wildcard Domain Validation

Before issuing a certificate with a wildcard character (*) in a CN or subjectAltName of type DNS-ID, NAVER BUSINESS PLATFORM shall refuse the issuance if the wildcard character occurs in the first label position to the left of a "registry-controlled" label or "public suffix" (e.g. "*.com", "*.co.kr"). NAVER BUSINESS PLATFORM refers to the "public suffix list" of <http://publicsuffix.org/> (PSL) as the judgment criterion, and periodically checks and reflects PSL updates.

3.2.2.7 Data Source Accuracy and Validity Periods

All data sources are evaluated for reliability, accuracy, and for their protection from alteration and falsification before they are used for I&A purposes.

Data sources are revalidated in accordance with the following terms.

- Legal existence and identity of Applicant
 - On or after 1 September 2020: 397 days
 - After 1 March 2018, but prior to 1 September 2020: 825 days;
- Authority of Applicant
 - On or after 1 September 2020: 397 days
 - After 1 March 2018, but prior to 1 September 2020: 825 days

3.2.2.8 CAA Records

See Section 4.2.4

3.2.3 Authentication of Individual Identity

NAVER BUSINESS PLATFORM does not issue OV Certificates to natural persons.

3.2.4 Non-verified Subscriber Information

Only verified information is contained in certificates. Optional subfields in the subject of an SSL Certificate must either contain information verified by NAVER BUSINESS PLATFORM or be left empty.

3.2.5 Validation of Authority

If the Applicant for a Certificate containing Subject Identity Information is an organization, NAVER BUSINESS PLATFORM uses a Reliable Method of Communication to verify the authenticity of the Applicant Representative's certificate request. NAVER BUSINESS PLATFORM uses the sources listed in section 3.2.2.1 to verify the Reliable Method of Communication.

The authority of Applicant Representatives to request Certificates on behalf of organizations is verified during the validation of the Applicant Representative's identity.

NAVER BUSINESS PLATFORM only accepts Certificate requests from individuals verified through reliable methods of communication. Among verified individuals, NAVER BUSINESS PLATFORM may

only accept Certificate requests from individuals with written designation by the Applicant to request for Certificates. In cases that the Applicants want a list of its authorized Certificate requesters or wish to update that list, Applicants may request as such in writing.

3.2.6 Criteria for Interoperation

Not applicable.

3.3 Identification and Authentication for Re-Key Requests

For re-key requests, NAVER BUSINESS PLATFORM CA and RAs will conduct the same validation procedures as in Section 3.2 Initial Identity Validation.

3.3.1 Identification and Authentication for Routine Re-Key

See Section 3.2.2

3.3.2 Identification and Authentication for Re-Key After Revocation

Not applicable.

3.4 Identification and Authentication for Revocation Request

A subscriber can directly revoke certificates, by using the subscriber's user ID and password for user identification, if they are no longer in use or if it is suspected that certificates and/or key pairs may be damaged.

NAVER BUSINESS PLATFORM CA and RAs may revoke the related CA or subscriber certificates if the issued CA or subscriber key pair are deemed damaged or suspected of being compromised according to 4.9.1 of this CPS. Prior to certificate revocation, NAVER BUSINESS PLATFORM CA and RAs will notify the certificate revocation to the subscribers who have the ownership of the certificates.

4. CERTIFICATE LIFE-CYCLE OPERATIONAL REQUIREMENTS

4.1 Certificate Application

4.1.1 Who Can Submit a Certificate Application

- Applicants will fulfill and submit the online forms made available by NAVER BUSINESS PLATFORM at the official websites.
- A revoked certificate suspected of phishing or fraud or a rejected certificate request is stored in a database operated within NAVER BUSINESS PLATFORM. NAVER BUSINESS PLATFORM can use such information to identify suspicious certificate requests.
- In the case where the CA and the Subscriber are affiliated, Terms of Use applicable to the requested SSL Certificate MUST be acknowledged and agreed to by an authorized applicant representative. An applicant representative is a natural person who is either the applicant, employed by the applicant, or an authorized agent who has express authority to represent the applicant, and who has authority on behalf of the applicant to acknowledge and agree to the Terms of Use.

4.1.2 Enrollment Process and Responsibilities

Prior to the issuance of a Certificate, the CA SHALL obtain the following documentation from the Applicant:

1. A certificate request, which may be electronic; and
2. An executed Subscriber Agreement or Terms of Use, which may be electronic.

The CA SHOULD obtain any additional documentation the CA determines necessary to meet these Requirements.

Prior to the issuance of a Certificate, the CA SHALL obtain from the Applicant a certificate request in a form prescribed by the CA and that complies with these Requirements. One certificate request MAY suffice for multiple Certificates to be issued to the same Applicant provided that each Certificate is supported by a valid, current certificate request signed by the appropriate Applicant Representative on behalf of the Applicant. The certificate request MAY be made, submitted and/or signed electronically.

The certificate request MUST contain a request from, or on behalf of, the Applicant for the issuance of a Certificate, and a certification by, or on behalf of, the Applicant that all of the information contained therein is correct.

4.2 Certificate Application Processing

NAVER BUSINESS PLATFORM CA and RAs validate the accuracy of the information provided by an applicant. If an applicant directly submits a public key, the applicant can present the public key manually to the CAs in the form of a PKCS#10 Certificate Signing Request (CSR).

4.2.1 Performing Identification and Authentication Functions

The RAs perform the identification and authentication of the information submitted by a subscriber as specified in Section 3.2 of this document.

NAVER BUSINESS PLATFORM may request additional information to a subscriber in accordance with separate verification procedures for High Risk Certificate Requests.

4.2.2 Approval or Rejection of Certificate Applications

Once all the required subscriber information has been validated, NAVER BUSINESS PLATFORM CAs will approve the certificate request. However, if the subscriber information is not validated or if the request does not comply with the CPS requirements, NAVER BUSINESS PLATFORM may reject the certificate request.

4.2.3 Time to Process Certificate Applications

If the subscriber application and identification documents are processed normally, NAVER BUSINESS PLATFORM will issue the certificate within a reasonable period of time after the certificate request.

4.2.4 Certificate Authority Authorization (CAA) Records

NAVER BUSINESS PLATFORM checks for a CAA record for each `dNSName` in the `subjectAltName` extension of the Certificate to be issued, according to the procedure in RFC 8659, following the processing instructions set down in RFC 8659 for any records found.

The following Issuer Domain Names in CAA “issue” or “issuewild” records are recognized as permitting NAVER BUSINESS PLATFORM to issue:

- certificate.naver.com

NAVER BUSINESS PLATFORM documents potential issuance that was prevented by a CAA record in sufficient detail to provide feedback to the CAB Forum on the circumstances.

4.3 Certificate Issuance

4.3.1 CA Actions During Certificate Issuance

Once these procedures have been completed, the certificate is generated and the appropriate key usage extension added.

4.3.2 Notifications to Subscriber by the CA of Issuance of Certificate

NAVER BUSINESS PLATFORM will deliver certificates within a reasonable time after issuance. Generally, NAVER BUSINESS PLATFORM delivers certificates via email to the email address designated by the Subscriber, via a programmatic method such as an API, or via download from a website.

4.4 Certificate Acceptance

4.4.1 Conduct Constituting Certificate Acceptance

Subscribers are solely responsible for installing the issued certificate on the subscriber's computer or hardware security module. Certificates are considered accepted on the earlier of

- The subscriber's use of the certificate,
- 30 days after the certificate's issuance.

4.4.2 Publication of the Certificate by the CA

NAVER BUSINESS PLATFORM publishes the CA certificate in its repository and publishes end entity certificates by delivering them to the subscriber using email or an API.

4.4.3 Notification of Certificate Issuance by the CA to Other Entities

NAVER BUSINESS PLATFORM may notify the public of the issuance of a certificate by adding it to one or more publicly accessible Certificate Transparency (CT) Logs.

4.5 Key Pair and Certificate Usage

4.5.1 Subscriber Private Key and Certificate Usage

The Certification Authority maintains effective controls to provide reasonable assurance that the

integrity of subscriber keys and certificates it manages is established and protected throughout their life cycles

4.5.2 Relying Party Public Key and Certificate Usage

No stipulation

4.6 Certificate Renewal

Certificate renewal is the process whereby a new certificate is created using an existing key pair with an updated validity period. For security reasons, NAVER BUSINESS PLATFORM does not offer certificate renewal without changing a key pair. Before the expiration of a NAVER SSL certificate, a subscriber is required to generate a new key pair and request a new certificate in accordance with this CPS.

4.6.1 Circumstances for Certificate Renewal

A subscriber can request renewal of a certificate, and gets notified of the necessity of certificate renewal from NAVER BUSINESS PLATFORM ninety (90) days before the expiration date of the issued certificate.

4.6.2 Who May Request Renewal

See Section 4.1.1

4.6.3 Processing Certificate Renewal Requests

See Section 4.2

4.6.4 Notification of New Certificate Issuance to Subscriber

See Section 4.3.2

4.6.5 Conduct Constituting Acceptance of a Renewal Certificate

See Section 4.4.1

4.6.6 Publication of the Renewal Certificate by the CA

See Section 4.4.2.

4.6.7 Notification of Certificate Issuance by the CA to Other Entities

See Section 4.4.3

4.7 Certificate Re-Key

4.7.1 Circumstances for Certificate Re-Key

If NAVER BUSINESS PLATFORM recognizes that the issued CA and/or subscriber certificates and the corresponding private keys are not secure, it may revoke the related certificates and private keys and reissue a certificate using a new key pair.

With the permission of NAVER BUSINESS PLATFORM CA or RAs, a certificate can be reissued in accordance with the new certificate issuance procedure after approving the certificate reissuance requested by a subscriber.

4.7.2 Who May Request Certification of a New Public Key

See Section 4.1.1

4.7.3 Processing Certificate Re-Keying Requests

See Section 4.2

4.7.4 Notification of New Certificate Issuance to Subscriber

See Section 4.3.2

4.7.5 Conduct Constituting Acceptance of a Re-Keyed Certificate

See Section 4.4.1

4.7.6 Publication of the Re-Keyed Certificate by the CA

See Section 4.4.2

4.7.7 Notification of Certificate Issuance by the CA to Other Entities

See Section 4.4.3

4.8 Certificate Modification

4.8.1 Circumstances for Certificate Modification

NAVER BUSINESS PLATFORM does not modify previously issued certificates. Any request for certificate modification will be treated as a request for the issuance of a new Certificate.

4.8.2 Who May Request Certificate Modification

See Section 4.1.1

4.8.3 Processing Certificate Modification Requests

See Section 4.2

4.8.4 Notification of New Certificate Issuance to Subscriber

See Section 4.3.2

4.8.5 Conduct Constituting Acceptance of Modified Certificate

See Section 4.4.1

4.8.6 Publication of the Modified Certificate by the CA

See Section 4.4.2

4.8.7 Notification of Certificate Issuance by the CA to Other Entities

See Section 4.4.3

4.9 Certificate Revocation and Suspension

NAVER BUSINESS PLATFORM supports revocation of certificates, but does not allow temporary suspension or recovery of certificates.

Once a certificate has been revoked, it is marked as revoked by having its serial number added to the CRL.

4.9.1 Circumstances for Revocation

4.9.1.1 Reasons for Revoking a Subscriber Certificate

NAVER BUSINESS PLATFORM will revoke a Certificate within 24 hours if one or more of the following occurs:

1. The Subscriber requests in writing that NAVER BUSINESS PLATFORM revoke the Certificate;
2. The Subscriber notifies NAVER BUSINESS PLATFORM that the original certificate request was not authorized and does not retroactively grant authorization;
3. NAVER BUSINESS PLATFORM obtains evidence that the Subscriber's Private Key corresponding to the Public Key in the Certificate suffered a Key Compromise; or
4. NAVER BUSINESS PLATFORM obtains evidence that the validation of domain authorization or control for any Fully-Qualified Domain Name or IP address in the Certificate should not be relied upon.

NAVER BUSINESS PLATFORM will revoke a Certificate within 5 days if one or more of the following occurs:

1. The Certificate no longer complies with the requirements of Sections 6.1.5 and 6.1.6 of the CABF Baseline Requirement;
2. NAVER BUSINESS PLATFORM obtains evidence that the Certificate was misused;
3. NAVER BUSINESS PLATFORM is made aware that a Subscriber has violated one or more of its material obligations under the Subscriber Agreement;
4. NAVER BUSINESS PLATFORM is made aware of any circumstance indicating that use of a Fully-Qualified Domain Name or IP address in the Certificate is no longer legally permitted (e.g. a court or arbitrator has revoked a Domain Name Registrant's right to use the Domain

Name, a relevant licensing or services agreement between the Domain Name Registrant and the Applicant has terminated, or the Domain Name Registrant has failed to renew the Domain Name);

5. NAVER BUSINESS PLATFORM is made aware that a Wildcard Certificate has been used to authenticate a fraudulently misleading subordinate Fully-Qualified Domain Name;
6. NAVER BUSINESS PLATFORM is made aware of a material change in the information contained in the Certificate;
7. NAVER BUSINESS PLATFORM is made aware that the Certificate was not issued in accordance with these Requirements or NAVER BUSINESS PLATFORM's Certification Practice Statement;
8. NAVER BUSINESS PLATFORM determines or is made aware that any of the information appearing in the Certificate is inaccurate;
9. NAVER BUSINESS PLATFORM's right to issue Certificates under these Requirements expires or is revoked or terminated, unless NAVER BUSINESS PLATFORM has made arrangements to continue maintaining the CRL/OCSP Repository;
10. Revocation is required by NAVER BUSINESS PLATFORM's Certification Practice Statement; or
11. NAVER BUSINESS PLATFORM is made aware of a demonstrated or proven method that exposes the Subscriber's Private Key to compromise, methods have been developed that can easily calculate it based on the Public Key (such as a Debian weak key, see <http://wiki.debian.org/SSLkeys>), or if there is clear evidence that the specific method used to generate the Private Key was flawed.

4.9.1.2 Reasons for Revoking a Subordinate CA Certificate

The Issuing CA SHALL revoke a Subordinate CA Certificate within seven (7) days if one or more of the following occurs:

1. The Subordinate CA requests revocation in writing;
2. The Subordinate CA notifies the Issuing CA that the original certificate request was not authorized and does not retroactively grant authorization;
3. The Issuing CA obtains evidence that the Subordinate CA's Private Key corresponding to the Public Key in the Certificate suffered a Key Compromise or no longer complies with the requirements of Sections 6.1.5 and 6.1.6;
4. The Issuing CA obtains evidence that the Certificate was misused;
5. The Issuing CA is made aware that the Certificate was not issued in accordance with or that

Subordinate CA has not complied with the applicable Certification Practice Statement;

6. The Issuing CA determines that any of the information appearing in the Certificate is inaccurate or misleading;

7. The Issuing CA or Subordinate CA ceases operations for any reason and has not made arrangements for another CA to provide revocation support for the Certificate;

8. The Issuing CA's or Subordinate CA's right to issue Certificates expires or is revoked or terminated, unless the Issuing CA has made arrangements to continue maintaining the CRL/OCSP Repository;

9. Revocation is required by the Issuing CA's Certification Practice Statement.

10. The technical content or format of the Certificate presents an unacceptable risk to Application Software Suppliers or Relying Parties

4.9.2 Who Can Request Revocation

NAVER BUSINESS PLATFORM provides a process for Subscribers to request revocation of their own Certificates. NAVER BUSINESS PLATFORM SHALL maintain a continuous 24x7 ability to accept and respond to revocation requests and related inquiries. NAVER BUSINESS PLATFORM may revoke a certificate without receiving a request and without reason.

Subscribers may request revocation of their own certificates by emailing dl_rootca@navercorp.com. All reports need to include sufficient detail to identify the specific certificates to be revoked.

4.9.3 Procedure for Revocation Request

NAVER BUSINESS PLATFORM processes a revocation request as follows:

1. NAVER BUSINESS PLATFORM logs the identity of entity making the request or problem report and the reason for requesting revocation. NAVER BUSINESS PLATFORM may also include its own reasons for revocation in the log.

2. NAVER BUSINESS PLATFORM may request confirmation of the revocation from a known administrator, where applicable, via out of band communication (e.g., telephone, fax, etc.).

3. If the request is authenticated as originating from the Subscriber, NAVER BUSINESS PLATFORM revokes the certificate.

4. For requests from third parties, NAVER BUSINESS PLATFORM personnel investigates the request and (if needed) revokes the applicable certificate within 24 hours after receipt. NAVER

BUSINESS PLATFORM decides whether revocation is appropriate based on the following criteria:

- a. The nature of the alleged problem,
- b. The consequences of revocation,
- c. The number of reports received about a particular certificate or website,
- d. The identity of the complainants (for example, complaints from a law enforcement official that a web site is engaged in illegal activities have more weight than a complaint from a consumer alleging they never received the goods they ordered), and
- e. Relevant legislation.

5. If NAVER BUSINESS PLATFORM determines that revocation is appropriate; NAVER BUSINESS PLATFORM personnel revoke the certificate and update the CRL.

NAVER BUSINESS PLATFORM maintains a continuous 24/7 ability to internally respond to any high priority revocation requests. If appropriate, NAVER BUSINESS PLATFORM forwards complaints to law enforcement.

4.9.4 Revocation Request Grace Period

No stipulation

4.9.5 Time Within Which CA Must Process the Revocation Request

NAVER BUSINESS PLATFORM begins the procedure for certificate revocation immediately after the request has been received.

- After the certificate revocation, the CAs apply the revocation to the CRL, and in no case is it later than 24 hours following the revocation

4.9.6 Revocation Checking Requirements for Relying Parties

Relying Parties are required to confirm the validity of each certificate in the certificate chain by checking for certificate validity, issuer to subject name chaining, policy and key use constraints and revocation status through CRL or OCSP responder before relying on a certificate.

4.9.7 CRL Issuance Frequency

The CRL is published periodically at least every day and is valid for seven (7) days.

4.9.8 Maximum Latency for CRLs

The CRL is posted to the CRL repository within an hour following the CRL generation.

4.9.9 On-Line Revocation/Status Checking Availability

The CAs support Online Certificate Status Protocol (OCSP) for the CA and subscriber certificates issued by NAVER BUSINESS PLATFORM. The OCSP addresses are:

- OCSP for CA certificates: ocsprca.navercorp.com
- OCSP for subscriber certificates: ocsppca.navercorp.com

OCSP responses conform to the RFC 6960.

- NAVER BUSINESS PLATFORM issues a separate certificate for signing an OCSP response. An OCSP signing Certificate which is signed by the CA contains an extension of the id-pkix-ocsp-nocheck type, as defined by the RFC6960.

OCSP Responder Certificate profile is included in Appendix A.

4.9.10 On-Line Revocation Checking Requirements

OCSP response messages are updated at least every four (4) days and are valid up to ten (10) days. An OCSP responder utilizes the GET method for requesting OCSP and receiving it.

4.9.11 Other Forms of Revocation Advertisements Available

Not applicable.

4.9.12 Special Requirements re Key Compromise

In the case that a private key used for a certificate electronic signature is damaged, the subscriber must immediately notify NAVER BUSINESS PLATFORM that the subscriber's certificate has been compromised.

4.9.13 Circumstances for Suspension

Not applicable.

4.9.14 Who Can Request Suspension

Not applicable.

4.9.15 Procedure for Suspension Request

Not applicable.

4.9.16 Limits on Suspension Period

Not applicable.

4.10 Certificate Status Services

4.10.1 Operational Characteristics

Revocation entries on a CRL or OCSP Response MUST NOT be removed until after the Expiry Date of the revoked Certificate

4.10.2 Service Availability

The certificate status service is available 24x7, unless it is temporarily unavailable due to maintenance or service failure.

4.10.3 Operational Features

No stipulation

4.11 End of Subscription

A subscriber can cancel or terminate its certificate subscription through the following:

- A subscriber visits the website and requests revocation to cancel the certificate service;
- When a certificate expires and is not newly issued or renewed, the certificate service will be terminated.

4.12 Key Escrow and Recovery

NAVER BUSINESS PLATFORM does not escrow the subscribers' private keys.

4.12.1 Key Escrow and Recovery Policy and Practices

Not applicable.

4.12.2 Session key encapsulation and recovery policy and practices

Not applicable.

5. FACILITY, MANAGEMENT, AND OPERATIONAL CONTROLS

5.1 Physical Controls

NAVER BUSINESS PLATFORM protects the location where the CA system is installed from physical threats such as intrusion or unauthorized access by outsiders.

5.1.1 Site Location and Construction

NAVER BUSINESS PLATFORM installs and operates the CA system in a separate control zone and performs physical access control for the system.

5.1.2 Physical Access

NAVER BUSINESS PLATFORM operates its own access control system and controls access to restricted areas by combining biometric authentication including the identification card and fingerprint recognition.

5.1.3 Power and Air Conditioning

NAVER BUSINESS PLATFORM uses an uninterruptable power supply (UPS) to prevent serious damage from power outages.

NAVER BUSINESS PLATFORM installs and operates an air conditioning system to maintain constant temperature and humidity.

5.1.4 Water Exposures

NAVER BUSINESS PLATFORM installs its CA system at a distance from the floor to protect it from water exposure.

5.1.5 Fire Prevention and Protection

NAVER BUSINESS PLATFORM uses fire detectors, portable fire extinguishers, and automatic fire extinguishing facilities in the space where the CA system is installed.

5.1.6 Media Storage

NAVER BUSINESS PLATFORM controls physical access by keeping the storage and recording media used for the CA service in a fireproof safe.

5.1.7 Waste Disposal

NAVER BUSINESS PLATFORM performs processing according to the internal procedures or complete destruction in disposing of any media storing keys, activation data, or sensitive files.

5.1.8 Off-Site Backup

NAVER BUSINESS PLATFORM performs backups for the CA service. The backup location has the same level of security and control as the place where the main facility is installed.

5.2 Procedural Controls

5.2.1 Trusted Roles

All NAVER BUSINESS PLATFORM employees who have permissions to issue and manage certificates and access and use hardware security modules are considered as major business contact persons and perform their duties as Trusted Roles. The Trusted Roles are defined as follows:

- Executive Officer
- Policy Managers
- Certificate Management Officers
- Registration Management Officers

- Validation Specialists
- Internal Auditors
- System Engineers / System Operators

5.2.2 Number of Persons Required per Task

At least three people are required for CA key generation, CA private key backup, CA key recovery and CA signing key activation.

5.2.3 Identification and Authentication for Each Role

Each CA or Delegated Third Party SHALL require that each individual in a Trusted Role use a unique credential created by or assigned to that person in order to authenticate to Certificate Systems.

5.2.4 Roles Requiring Separation of Duties

Each CA or Delegated Third Party SHALL document the responsibilities and tasks assigned to Trusted Roles and implement “separation of duties” for such Trusted Roles based on the security-related concerns of the functions to be performed.

The Executive Officer, Internal Auditors, System Engineers / System Operators do not perform other trusted role tasks.

The Policy Managers and Validation Specialists do not perform certificate management or registration management tasks.

5.3 Personnel Controls

5.3.1 Qualifications, Experience, and Clearance Requirements

The major business contact person at the certification center operated by NAVER BUSINESS PLATFORM establishes and performs the personnel management and management policies that can reasonably verify the competence and job aptitude of the employees in accordance with the CPS requirements.

The Trusted Roles can only be performed by NAVER BUSINESS PLATFORM employees, but some functions can be consigned to subcontracted personnel to the extent permitted by NAVER BUSINESS PLATFORM.

5.3.2 Background Check Procedures

NAVER BUSINESS PLATFORM validates the requirements required for employee recruitment

according to the company's information security policy or human resource management policy.

5.3.3 Training Requirements

NAVER BUSINESS PLATFORM conducts the certificate management training necessary for business performance when recruiting any employees required to be educated, including the Trusted Roles.

5.3.4 Retraining Frequency and Requirements

The personnel responsible for the certification task in NAVER BUSINESS PLATFORM need to receive retraining necessary for performing their work annually.

5.3.5 Job Rotation Frequency and Sequence

No stipulation

5.3.6 Sanctions for Unauthorized Actions

NAVER BUSINESS PLATFORM may impose sanctions, including suspension and termination, on personnel that performed unauthorized acts in accordance with the internal regulations.

5.3.7 Independent Contractor Requirements

In the case that an independent contractor is assigned to perform a Trusted Role of NAVER BUSINESS PLATFORM certification service, NAVER BUSINESS PLATFORM can impose the same sanctions against unauthorized actions as specified in Section 5.3.6.

5.3.8 Documentation Supplied to Personnel

NAVER BUSINESS PLATFORM provides the internal documents and training materials on the major certification tasks for all the employees involved.

5.4 Audit Logging Procedures

5.4.1 Types of Events Recorded

NAVER BUSINESS PLATFORM records the following events occurred in the certification system and applications and creates and records certificate management logs from the data collected in accordance with the internal audit procedures.

- Applicant and subscriber actions
 - Request to create a certificate
 - Request to revoke a certificate
- Certificate lifecycle-related events
 - Key generation
 - Damaged key notification
 - Issuance of a certificate
 - Distribution of a certificate
 - Rejection or cancellation of a certificate
 - Generation of a Certificate Revocation List(CRL)
 - Generation of an OCSP response
- Operation and management actions by personnel performing the Trusted Roles
 - Login events and use of identification and authentication mechanisms
 - Changes to the CA policy
 - Changes to the CA keys
 - Changes to the CA system configuration
- Security events
 - Successful and unsuccessful PKI system access attempts;
 - PKI and security system actions performed;
 - Security profile changes;
 - System crashes, hardware failures, and other anomalies;
 - Firewall and router activities; and
 - Entries to and exits from the CA facility.

5.4.2 Frequency of Processing Log

Audit logs are periodically reviewed by NAVER BUSINESS PLATFORM on an as-needed basis.

CA systems capable of continuous automated monitoring and alerting use this function to check log processing and log integrity and automatically receive reports. For systems where continuous automated monitoring and alerting is not possible, human review of log processing and log integrity is performed every month.

5.4.3 Retention Period for Audit Log

NAVER BUSINESS PLATFORM retains every audit log generated for at least seven (7) years or longer and may provide its internal or external auditors with these retained audit logs if necessary.

5.4.4 Protection of Audit Log

The audit records generated by each system are managed by the personnel designated by NAVER BUSINESS PLATFORM, and only the administrators and internal auditors can view and search the audit records generated by each system. The generated audit records are not allowed to be modified. It is designed to break the data integrity of audit records when someone attempt to modify them.

5.4.5 Audit Log Backup Procedures

NAVER BUSINESS PLATFORM maintains formal procedures to ensure that audit logs are backed up and retained to keep them available as necessary for the CA service and as stipulated by applicable standards.

5.4.6 Audit Collection System (Internal vs. External)

No stipulation

5.4.7 Notification to Event-Causing Subject

No stipulation

5.4.8 Vulnerability Assessments

NAVER BUSINESS PLATFORM periodically conducts its own scan to ensure effective security management in performing certification services.

5.5 Records Archival

5.5.1 Types of Records Archived

Records to be archived are those specified in Section 5.4.1.

5.5.2 Retention Period for Archive

NAVER BUSINESS PLATFORM retains all the documentation relating to certificate requests and the issuance thereof, and the revocation thereof for at least seven (7) years after the certificates become invalid or revoked.

5.5.3 Protection of Archive

The backups of information archived should be maintained and managed at a distinct and separate location with similar security and availability requirements.

5.5.4 Archive Backup Procedures

The backed-up archives can be utilized in the event of the loss or destruction of the primary archives in accordance with the backup and recovery procedures.

5.5.5 Requirements for Time-Stamping of Records

All the archived records will be generated and time-stamped by utilizing the visual information used in NAVER BUSINESS PLATFORM. Such information is not encrypted.

5.5.6 Archive Collection System (Internal or External)

No stipulation

5.5.7 Procedures to Obtain and Verify Archive Information

No stipulation

5.6 Key Changeover

The procedure for providing a new CA certificate to a subject following a re-key is the same as the procedure for initially providing the CA certificate.

5.7 Compromise and Disaster Recovery

5.7.1 Incident and Compromise Handling Procedures

The CA must maintain controls to provide reasonable assurance that damage from security incidents and malfunctions is minimized through the use of incident reporting and response procedures.

The CA SHALL document a business continuity and disaster recovery procedures designed to notify and reasonably protect Application Software Suppliers, Subscribers, and Relying Parties in the event of a disaster, security compromise, or business failure. The CA is not required to publicly disclose its business continuity plans but SHALL make its business continuity plan and security plans available to the CA's auditors upon request. The CA SHALL annually test, review, and update these procedures.

The business continuity plan MUST include:

1. The conditions for activating the plan,
2. Emergency procedures,
3. Fallback procedures,
4. Resumption procedures,
5. A maintenance schedule for the plan;
6. Awareness and education requirements;
7. The responsibilities of the individuals;
8. Recovery time objective;
9. Regular testing of contingency plans.
10. The CA's plan to maintain or restore the CA's business operations in a timely manner following interruption to or failure of critical business processes
11. A requirement to store critical cryptographic materials (i.e., secure cryptographic device and activation materials) at an alternate location;
12. What constitutes an acceptable system outage and recovery time
13. How frequently backup copies of essential business information and software are taken;
14. The distance of recovery facilities to the CA's main site; and
15. Procedures for securing its facility to the extent possible during the period of time following a disaster and prior to restoring a secure environment either at the original or a remote site.

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

NAVER BUSINESS PLATFORM uses archived data for recovery when the critical data related to subscriber certificates are compromised or destroyed.

5.7.3 Entity Private Key Compromise Procedures

Once NAVER BUSINESS PLATFORM has recognized that the private keys used in the certification service are not secure, it revokes the CA and subscriber certificates containing public keys and reissues CA and subscriber certificates by creating new key pairs. If a Root CA private key is compromised, NAVER BUSINESS PLATFORM will inform browser vendors of the compromise and best estimate of the date of compromise.

5.7.4 Business Continuity Capabilities After a Disaster

NAVER BUSINESS PLATFORM establishes and implements business continuity plans so as to prevent the interruption of certificate lifecycle tasks, such as certificate issuance, renewal, and revocation, and major certification services, such as the CA facility and equipment management, in the event of failure, terrorism, power outage, earthquake, fire, flood, etc.

5.8 CA or RA Termination

When NAVER BUSINESS PLATFORM discontinues operating NAVER BUSINESS PLATFORM CA and RAs, the impact of such action has to be minimized as much as possible in light of the prevailing circumstances. These include:

- Providing practicable and reasonable prior notice to all the subscribers;
- Assisting with the orderly transfer of service and operational records to a successor CA, if any;
- Preserving all the audit logs and retention records required by this CPS for a minimum of one (1) year;
- Revoking all the certificates no later than at the time of termination.

6. TECHNICAL SECURITY CONTROLS

6.1 Key Pair Generation and Installation

6.1.1 Key Pair Generation

The CA keys operated by NAVER BUSINESS PLATFORM are generated inside a FIPS 140-2 Level 3-certified hardware security module(HSM). The generated private keys cannot be extracted outside the HSM except for the purpose of a key backup allowed by NAVER BUSINESS PLATFORM.

Subscriber Key Pairs are generated by the Subscriber.

6.1.2 Private Key Delivery to Subscriber

NAVER BUSINESS PLATFORM does not generate subscriber Key Pairs.

6.1.3 Public Key Delivery to Certificate Issuer

The subscribers submit a Certificate Signing Request in PKCS#10 format to the CA or RAs via a website with an SSL Certificate applied.

6.1.4 CA Public Key Delivery to Relying Parties

NAVER BUSINESS PLATFORM CA public keys are digitally signed by the Root CA operated by NAVER BUSINESS PLATFORM. NAVER BUSINESS PLATFORM establishes and enforces the procedures for delivering chain-certified CA certificates upon an applicant's receipt of issued certificates so that NAVER BUSINESS PLATFORM CA certificates are delivered to the relying parties.

6.1.5 Key Sizes

Certificates MUST meet the following requirements for algorithm type and key size.

Root CA Certificates, Subordinate CA Certificates and Subscriber Certificates will follow the same requirements:

Type	Permissible values
Digest algorithm	SHA-256, SHA-384 or SHA-512
Minimum RSA modulus size (bits)	2048

6.1.6 Public Key Parameters Generation and Quality Checking

For RSA keys, NAVER BUSINESS PLATFORM confirms that the value of the public exponent is an odd number equal to 3 or more.

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

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

1. Self-signed Certificates to represent the Root CA itself;
2. Certificates for Subordinate CAs and Cross Certificates;
3. Certificates for infrastructure purposes (e.g. administrative role certificates, internal CA operational device certificates, and OCSP Response Verification Certificates); and
4. Certificates issued solely for the purpose of testing products with Certificates issued by a Root CA

6.2 Private Key Protection and Cryptographic Module Engineering Controls

6.2.1 Cryptographic Module Standards and Controls

CA key pairs are archived and operated in a hardware security module with FIPS 140-2 Level 3 or higher.

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

NAVER BUSINESS PLATFORM performs the generation of CA key pairs in accordance with its internal key generation procedures. At least two or more personnel participate in key pair generation.

6.2.3 Private Key Escrow

NAVER BUSINESS PLATFORM does not escrow CA key pairs to a third party.

6.2.4 Private Key Backup

The backups of CA private keys are stored in a secure location in accordance with NAVER BUSINESS PLATFORM backup procedures. The backed-up private keys are securely stored in a

fireproof safe through a hardware security module(HSM).

6.2.5 Private Key Archival

NAVER BUSINESS PLATFORM does not archive CA private keys.

6.2.6 Private Key Transfer Into or From a Cryptographic Module

For CA private key backup purposes, under the approval of NAVER BUSINESS PLATFORM, CA private keys may be extracted in accordance with the applicable instructions specified by a hardware security module manufacturer.

6.2.7 Private Key Storage on Cryptographic Module

NAVER BUSINESS PLATFORM CA's private keys are generated and stored inside cryptographic modules which meet the requirements of 6.2.1 of this CPS.

6.2.8 Method of Activating Private Key

Under the approval of NAVER BUSINESS PLATFORM, the hardware security module in which CA private keys are stored may be activated in accordance with the applicable instructions specified by a hardware security module manufacturer.

6.2.9 Method of Deactivating Private Key

Under the approval of NAVER BUSINESS PLATFORM, the hardware security module in which CA private keys are stored may be deactivated in accordance with the applicable instructions specified by a hardware security module manufacturer.

6.2.10 Method of Destroying Private Key

NAVER BUSINESS PLATFORM may destroy CA private keys for the following reasons:

- CA certificates expired
- CA private keys damaged, leaked, or potentially compromised.

6.2.11 Cryptographic Module Rating

Use a hardware security module that conforms to the requirements of Section 6.2.1.

6.3 Other Aspects of Key Pair Management

6.3.1 Public Key Archival

CA, RA, and subscriber certificates are archived in accordance with NAVER BUSINESS PLATFORM backup procedures.

6.3.2 Certificate Operational Periods and Key Pair Usage Periods

Certificate validity expires at the time of certificate termination specified in the Certificate field. Subscriber Certificates issued after 1 March 2018, but prior to 1 September 2020, does not have a Validity Period greater than 825 days. Subscriber Certificates issued on or after 1 September 2020 does not have a Validity Period greater than 397 days.

6.4 Activation Data

Hardware security module(HSM) keys are stored in the corresponding modules and can only be used by the administrators authorized by NAVER BUSINESS PLATFORM. The module activation to use a key pair in a hardware security module is performed according to the multiple control procedures implemented with a module necessary for physical access control such as smart cards.

6.4.1 Activation Data Generation and Installation

No stipulation

6.4.2 Activation Data Protection

No stipulation

6.4.3 Other Aspects of Activation Data

No stipulation

6.5 Computer Security Controls

6.5.1 Specific Computer Security Technical Requirements

NAVER BUSINESS PLATFORM CA system information is protected through a combination of server, OS control, physical control, and network control. The network security control is specified in Section 6.7.

Multi-Factor Authentication is implemented for all the accounts used for the lifecycle management of the certificates issued by NAVER BUSINESS PLATFORM CA system.

6.5.2 Computer Security Rating

No stipulation

6.6 Life Cycle Technical Controls

6.6.1 System Development Controls

The application software used in NAVER BUSINESS PLATFORM is developed, tested, and operated in accordance with the company's system development and change policies and procedures. Hardware, including a server, is provided by a supplier selected by the company's procurement and purchasing procedures.

6.6.2 Security Management Controls

NAVER BUSINESS PLATFORM has established an information security organization, which implements and operates an internal control framework, and constructs and enforces technical, organizational, and procedural details.

6.6.3 Life Cycle Security Controls

No stipulation

6.7 Network Security Controls

NAVER BUSINESS PLATFORM performs network security control to the CA Systems and supporting systems according to the network management policy:

- a. Segmenting Certificate Systems into networks or zones based on their functional, logical,

and physical relationship;

- b. Applying equivalent security controls to all systems co-located in the same network with the Certificate Systems;
- c. Maintaining Root CA Systems in a High Security Zone and in an offline state or air-gapped from all other networks;
- d. Maintaining and protecting Issuing Systems, Certificate Management Systems, and Security Support Systems in at least a Secure Zone;
- e. Implementing and configuring Security Support Systems that protect systems and communications between systems inside secure zones and communications with non-Certificate Systems outside those zones (including those with organizational business units that do not provide PKI-related services) and those on public networks;
- f. Configuring network boundary controls (firewalls, switches, routers, and gateways) with rules that support only the services, protocols, ports, and communications that NAVER BUSINESS PLATFORM has identified as necessary to its operations;
- g. Configuring Issuing Systems, Certificate Management Systems, Security Support Systems, and Front-End / Internal-Support Systems by removing or disabling all accounts, applications, services, protocols, and ports that are not used in NAVER BUSINESS PLATFORM's or Delegated Third Party's operations and allowing only those that are approved by NAVER BUSINESS PLATFORM or Delegated Third Party;
- h. Ensuring that NAVER BUSINESS PLATFORM's security policies encompass a change management process, following the principles of documentation, approval and review, and to ensure that all changes to Certificate Systems, Issuing Systems, Certificate Management Systems, Security Support Systems, and Front-End / Internal-Support Systems follow said change management process;
- i. Granting administration access to Certificate Systems only to persons acting in Trusted Roles and require their accountability for Certificate System's security;
- j. Implementing Multi-Factor Authentication to each component of the Certificate System that supports Multi-Factor Authentication;
- k. Changing authentication keys and passwords for any privileged account or service account on a Certificate System whenever a person's authorization to administratively access that account on the Certificate System is changed or revoked; and
- l. Applying recommended security patches to Certificate Systems within six (6) months of the security patch's availability, unless the CA documents that the security patch would introduce additional vulnerabilities or instabilities that outweigh the benefits of applying the security patch.

6.8 Time-Stamping

The audit logs created by the certificates, CRL, and other certificate lifecycles contain time information. Additional Time-Stamping or encryption is not performed for such information except for the database self-encrypting.

7. CERTIFICATE, CRL, AND OCSP PROFILES

7.1 Certificate Profile

The certificates issued by NAVER BUSINESS PLATFORM conform to both the RFC 5280 and the latest CA Browser Forum's Baseline Requirements.

In the cases where stipulations of the RFC 5280 and the applicable CA Browser Forum's Baseline Requirements differ, the CA Browser Forum's Baseline Requirements notion will preferentially be adhered to.

7.1.1 Version Number(s)

The subscriber certificates issued by NAVER BUSINESS PLATFORM have X.509 version 3.

7.1.2 Certificate Extensions

See APPENDIX A: CERTIFICATE PROFILES.

7.1.3 Algorithm Object Identifiers

See APPENDIX A: CERTIFICATE PROFILES.

7.1.4 Name Forms

7.1.4.1 Issuer Information

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

7.1.4.2 Subject Information - Subscriber Certificates

By issuing the Certificate, NAVER BUSINESS PLATFORM represents that it followed the procedure set forth in its Certification Practice Statement to verify that, as of the Certificate's issuance date, all of the Subject Information was accurate. NAVER BUSINESS PLATFORM does not include a Domain Name in a Subject attribute except as specified in Section 3.2.2.4.

SSL Certificate can only contain verified information according to Section 3.2, and does not include unverified information. subject:organizationName, subject:localityName, and subject:countryName attributes must be verified in accordance with Section 3.2.2.1.

Subject attributes may not contain only metadata such as '.', '-', and ' ' (i.e. space) characters, and/or any other indication that the value is absent, incomplete, or not applicable.

Wildcard FQDNs are permitted.

NAVER BUSINESS PLATFORM does not issue certificates with a subjectAlternativeName extension or Subject commonName field containing a Reserved IP Address or Internal Name.

Entries in the dNSName cannot be in the "preferred name syntax", as specified in RFC 5280, and thus cannot contain underscore characters ('_').

7.1.5 Name Constraints

No stipulation.

7.1.6 Certificate Policy Object Identifier

The certificates issued under NAVER BUSINESS PLATFORM use this CPS as a certificate policy, and the related policy identifiers are specified below.

- Domain Validation Subscriber Certificate 1.2.410.200081.2.2.3.1
- Organization Validation Subscriber Certificate 1.2.410.200081.2.2.3.2

The policy identifiers assigned under the CA Browser Forum are also used for Domain Validation and Organization Validation Subscriber Certificates.

7.1.7 Usage of Policy Constraints Extension

No stipulation

7.1.8 Policy Qualifiers Syntax and Semantics

No stipulation

7.1.9 Processing Semantics for the Critical Certificate Policies Extension

No stipulation

7.2 CRL Profile

The CRL issued by NAVER BUSINESS PLATFORM conforms to the RFC 5280 standards.

7.2.1 Version Number(s)

NAVER BUSINESS PLATFORM issues version 2 CRLs

7.2.2 CRL and CRL Entry Extensions

Field	Value
CRL Number	Never repeated monotonically increasing integer
Authority Key Identifier	Same as the Authority Key Identifier listed in the certificate
Invalidity Date	Optional date in UTC format
Reason Code	Optional reason for revocation

7.3 OCSP Profile

NAVER BUSINESS PLATFORM CAs support OCSP, and its responses conform to the RFC 6960 standards.

The responses to OCSP requests are provided to the Authority Information Access via an OCSP responder URL. The OCSP responder does not respond with a "Good" for a certificate that it has no record of issuing.

7.3.1 Version Number(s)

NAVER BUSINESS PLATFORM OCSP responders conform to version 1 as defined in RFC 6960. NAVER BUSINESS PLATFORM OCSP responders may decline to respond to messages that do not comply with RFC 5019. Specifically, NAVER BUSINESS PLATFORM OCSP responders may not include a nonce in the reply even if a nonce is provided in the request.

7.3.2 OCSP Extensions

No stipulation.

8. COMPLIANCE AUDIT AND OTHER ASSESSMENTS

8.1 Frequency and Circumstances of Assessment

Audits on the certification service operated and managed by NAVER BUSINESS PLATFORM are conducted at least annually.

8.2 Identity/Qualifications of Assessor

A Qualified Auditor SHALL perform NAVER BUSINESS PLATFORM's audit. A Qualified Auditor means a natural person, Legal Entity, or group of natural persons or Legal Entities that collectively possess the following qualifications and skills:

1. Independence from the subject of the audit;
2. The ability to conduct an audit that addresses the criteria specified in an Eligible Audit Scheme (in accordance with section 8.1 of the Baseline Requirements);
3. Employs individuals who have proficiency in examining Public Key Infrastructure technology, information security tools and techniques, information technology and security auditing, and the third-party attestation function;
4. (For audits conducted in accordance with any one of the ETSI standards) accredited in accordance with ISO 17065 applying the requirements specified in ETSI EN 319 403;
5. (For audits conducted in accordance with the WebTrust standard) licensed by WebTrust;
6. Bound by law, government regulation, or professional code of ethics; and
7. Except in the case of an Internal Government Auditing Agency, maintains Professional Liability/Errors & Omissions insurance with policy limits of at least one million US dollars in coverage

8.3 Assessor's Relationship to Assessed Entity

Audits for NAVER BUSINESS PLATFORM certification service are performed by a public accounting firm that is independent from the subject of the audit.

8.4 Topics Covered by Assessment

Annual audits validate the proper operation of NAVER BUSINESS PLATFORM's CA service in compliance with the WebTrust Audit Criteria and the CA Browser Forum's Baseline Requirements.

8.5 Actions Taken as a Result of Deficiency

NAVER BUSINESS PLATFORM takes actions or supplementary measures against significant deficiencies identified during an annual audit.

8.6 Communications of Results

An audit report contains the contents of the certificates issued by NAVER BUSINESS PLATFORM, the related systems, policies, and procedures. NAVER BUSINESS PLATFORM will make an audit report publicly available on its website.

8.7 Self-Audits

The NAVER BUSINESS PLATFORM performs self-audits on at least a quarterly basis against a randomly selected sample of the greater of one certificate or at least three percent of the Certificates issued by it during the period commencing immediately after the previous self-audit sample was taken.

9. OTHER BUSINESS AND LEGAL MATTERS

9.1 Fees

9.1.1 Certificate Issuance or Renewal Fees

NAVER BUSINESS PLATFORM may charge subscribers for the management as well as the issuance and renewal of certificates.

9.1.2 Certificate Access Fees

NAVER BUSINESS PLATFORM may charge a reasonable fee for access to its certificate databases.

9.1.3 Revocation or Status Information Access Fees

NAVER BUSINESS PLATFORM does not charge any fees when it comes to making the CRL indicated by this document available in the repository or otherwise available to the relying parties.

9.1.4 Fees for Other Services

NAVER BUSINESS PLATFORM does not charge an additional fee for accessing or viewing this CPS.

9.1.5 Refund Policy

NAVER BUSINESS PLATFORM establishes refund policies depending on certificate types at a general and reasonable level.

9.2 Financial Responsibility

9.2.1 Insurance Coverage

NAVER BUSINESS PLATFORM maintains general liability insurance coverage.

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

The following information is considered confidential information of NAVER BUSINESS PLATFORM and is protected against disclosure using a reasonable degree of care:

1. Private Keys;
2. Activation data used to access Private Keys or to gain access to the CA system;
3. Business continuity, incident response, contingency, and disaster recovery plans;

4. Other security practices used to protect the confidentiality, integrity, or availability of information;

5. Information held by NAVER BUSINESS PLATFORM as private information in accordance with 9.3 Confidentiality of Business Information;

6. Audit logs and archive records; and

7. Transaction records, financial audit records, and external or internal audit trail records and any audit reports (with the exception of an auditor's letter confirming the effectiveness of the controls set forth in this CPS).

9.3.2 Information Not Within the Scope of Confidential Information

Certificates and revocation data are not considered confidential information. Furthermore, information is not considered confidential if its disclosure is mandated pursuant to this CPS.

9.3.3 Responsibility to Protect Confidential Information

NAVER BUSINESS PLATFORM, its contractors and agents use a reasonable degree of care when processing and protecting confidential information.

9.4 Privacy of Personal Information

9.4.1 Privacy Plan

NAVER BUSINESS PLATFORM follows the privacy policy posted on its website when handling personal information.

The URL of NAVER BUSINESS PLATFORM's Privacy Policy is:

<https://certificate.naver.com/bbs/initGuidePolicy.do>

9.4.2 Information Treated as Private

See Section 9.4.1

9.4.3 Information Not Deemed Private

See Section 9.4.1

9.4.4 Responsibility to Protect Private Information

See Section 9.4.1

9.4.5 Notice and Consent to Use Private Information

See Section 9.4.1

9.4.6 Disclosure Pursuant to Judicial or Administrative Process

See Section 9.4.1

9.4.7 Other Information Disclosure Circumstances

See Section 9.4.1

9.5 Intellectual Property rights

NAVER BUSINESS PLATFORM and/or its business partners own the intellectual property rights in NAVER BUSINESS PLATFORM's services, including the certificates, trademarks used in providing the services, and this CPS.

9.5.1 Property Rights in Certificates and Revocation Information

The Intellectual Property Rights pertaining to the Certificates of CAs and revocation information that are issued by CAs shall be retained by those CAs.

NAVER BUSINESS PLATFORM does not allow derivative works of its Certificates or products without prior written permission.

9.5.2 Property Rights in the Agreement

NAVER BUSINESS PLATFORM's PKI service participants acknowledge that NAVER BUSINESS PLATFORM retains all Intellectual Property Rights in and to this CPS.

9.5.3 Property Rights of Names

Certificate applicants retain all rights, if they have any, in any trademark, service mark, or trade

name contained in any Certificate Application and distinguished name within any Certificate issued to them. NAVER BUSINESS PLATFORM retains all rights it has in any trademark, service mark, trade name, or other identifying trade symbols that it owns.

9.5.4 Property Rights in Key Pairs

Private Keys and Public Keys remain the property of the Subscribers who rightfully hold them.

9.6 Representations and Warranties

9.6.1 CA Representations and Warranties

Except as expressly stated in this CPS or in a separate agreement with a Subscriber, NAVER BUSINESS PLATFORM does not make any representations or warranties regarding its products or services.

1. NAVER BUSINESS PLATFORM complies, in all material aspects, with this CPS,
2. NAVER BUSINESS PLATFORM publishes and updates CRLs and OCSP respond on a regular basis,
3. All certificates issued under this CPS will be verified in accordance with this CPS and meet the minimum requirements found herein and in the baseline requirement, and
4. NAVER BUSINESS PLATFORM will maintain a repository of public information on its website.

9.6.2 RA Representations and Warranties

RA represents and warrants that:

1. The RA's certificate issuance and management services conform to NAVER BUSINESS PLATFORM CP and this CPS.
2. Information provided by the RA does not contain any false or misleading information,
3. Translations performed by the RA and an accurate translation of the original information, and
4. All certificates requested by the RA meet the requirements of this CPS

9.6.3 Subscriber Representations and Warranties

NAVER BUSINESS PLATFORM require, as part of the Subscriber Agreement or Terms of Use, that the Applicant make the commitments and warranties in this section for the benefit of the CA and the Certificate Beneficiaries.

Prior to the issuance of a Certificate, NAVER BUSINESS PLATFORM obtain, for the express benefit of the CA and the Certificate Beneficiaries, either:

1. The Applicant's agreement to the Subscriber Agreement with the CA, or
2. The Applicant's acknowledgement of the Terms of Use.

NAVER BUSINESS PLATFORM implement a process to ensure that each Subscriber Agreement or Terms of Use is legally enforceable against the Applicant.

In either case, the Agreement MUST apply to the Certificate to be issued pursuant to the certificate request. NAVER BUSINESS PLATFORM may use an electronic or "click-through" Agreement provided that the CA has determined that such agreements are legally enforceable. A separate Agreement MAY be used for each certificate request, or a single Agreement MAY be used to cover multiple future certificate requests and the resulting Certificates, so long as each Certificate that the CA issues to the Applicant is clearly covered by that Subscriber Agreement or Terms of Use.

The Subscriber Agreement or Terms of Use contain provisions imposing on the Applicant itself (or made by the Applicant on behalf of its principal or agent under a subcontractor or hosting service relationship) the following obligations and warranties:

1. Accuracy of Information: An obligation and warranty to provide accurate and complete information at all times to the CA, both in the certificate request and as otherwise requested by the CA in connection with the issuance of the Certificate(s) to be supplied by the CA;
2. Protection of Private Key: An obligation and warranty by the Applicant to take all reasonable measures to maintain sole control of, keep confidential, and properly protect at all times the Private Key that correspond to the Public Key to be included in the requested Certificate(s) (and any associated activation data or device, e.g. password or token);
3. Acceptance of Certificate: An obligation and warranty that the Subscriber will review and verify the Certificate contents for accuracy;
4. Use of Certificate: An obligation and warranty to install the Certificate only on servers that are accessible at the subjectAltName(s) listed in the Certificate, and to use the Certificate solely in compliance with all applicable laws and solely in accordance with the Subscriber Agreement or Terms of Use;
5. Reporting and Revocation: An obligation and warranty to: (a) promptly request revocation of the Certificate, and cease using it and its associated Private Key, if there is any actual or

suspected misuse or compromise of the Subscriber's Private Key associated with the Public Key included in the Certificate, and (b) promptly request revocation of the Certificate, and cease using it, if any information in the Certificate is or becomes incorrect or inaccurate.

6. Termination of Use of Certificate: An obligation and warranty to promptly cease all use of the Private Key corresponding to the Public Key included in the Certificate upon revocation of that Certificate for reasons of Key Compromise.

7. Responsiveness: An obligation to respond to the CA's instructions concerning key compromise or Certificate misuse within a specified time period.

8. Acknowledgment and Acceptance: An acknowledgment and acceptance that the CA is entitled to revoke the certificate immediately if the Applicant were to violate the terms of the Subscriber Agreement or Terms of Use or if the CA discovers that the Certificate is being used to enable criminal activities such as phishing attacks, fraud, or the distribution of malware.

9.6.4 Relying Party Representations and Warranties

Relying Parties represent and warrant that: (a) they have read, understand and agree to this CPS; (b) they have verified both the relevant NAVER BUSINESS PLATFORM CA's Certificate and any other certificates in the certificate chain using the relevant CRL or OCSP; (c) they will not use a Certificate if the Certificate has expired or been revoked; (d) they have sufficient information to make an informed decision as to the extent to which they choose to rely on the information in a Certificate; (e) they have studied the applicable limitations on the usage of Certificates and agree to NAVER BUSINESS PLATFORM's limitations on liability related to the use of Certificates; (f) they are solely responsible for deciding whether or not to rely on information in a Certificate; and (g) they are solely responsible for the legal and other consequences of their failure to perform the Relying Party obligations in this CPS.

Relying Parties also represent and warrant that they will take all reasonable steps to minimize the risk associated with relying on a digital signature, including only relying on a Certificate after considering:

1. Applicable law and the legal requirements for identification of a party, protection of the confidentiality or privacy of information, and enforceability of the transaction;
2. The intended use of the Certificate as listed in the Certificate or this CPS;
3. The data listed in the Certificate;
4. The economic value of the transaction or communication;
5. The potential loss or damage that would be caused by an erroneous identification or a loss of confidentiality or privacy of information in the application, transaction, or communication;

6. The Relying Party's previous course of dealing with the Subscriber;
7. The Relying Party's understanding of trade, including experience with computer-based methods of trade; and
8. Any other indicia of reliability or unreliability pertaining to the Subscriber and/or the application, communication, or transaction.

9.6.5 Representations and Warranties of Other Participants

No stipulation.

9.7 Disclaimers of Warranties

EXCEPT AS EXPRESSLY STATED IN THIS CPS, ALL CERTIFICATES AND ANY RELATED SOFTWARE AND SERVICES ARE PROVIDED "AS IS" AND "AS AVAILABLE."

TO THE MAXIMUM EXTENT PERMITTED BY LAW, NAVER BUSINESS PLATFORM DISCLAIMS ALL OTHER WARRANTIES, BOTH EXPRESS AND IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OF ACCURACY OF INFORMATION PROVIDED WITH RESPECT TO CERTIFICATES ISSUED BY NAVER BUSINESS PLATFORM, THE CRL, AND ANY PARTICIPANT'S OR THIRD PARTY'S PARTICIPATION IN NAVER BUSINESS PLATFORM PKI, INCLUDING USE OF KEY PAIRS, CERTIFICATES, THE CRL OR ANY OTHER GOODS OR SERVICES PROVIDED BY NAVER BUSINESS PLATFORM TO THE PARTICIPANT.

EXCEPT AS EXPRESSLY STATED IN SECTION 9.6.1 OF THIS CPS, NAVER BUSINESS PLATFORM DOES NOT WARRANT THAT ANY SERVICE OR PRODUCT WILL MEET ANY EXPECTATIONS OR THAT ACCESS TO CERTIFICATES WILL BE TIMELY OR ERROR-FREE.

NAVER BUSINESS PLATFORM does not guarantee the availability of any products or services and may modify or discontinue any product or service offering at any time. A fiduciary duty is not created simply because an individual or entity uses NAVER BUSINESS PLATFORM's services.

9.8 Limitations of Liability

TO THE EXTENT PERMITTED BY APPLICABLE LAW, NAVER BUSINESS PLATFORM SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY OR PUNITIVE DAMAGES, INCLUDING BUT NOT LIMITED TO DAMAGES FOR LOST DATA, LOST PROFITS, LOST REVENUE OR COSTS OF PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES, HOWEVER CAUSED AND UNDER ANY THEORY OF LIABILITY, INCLUDING BUT NOT LIMITED TO CONTRACT

OR TORT (INCLUDING PRODUCTS LIABILITY, STRICT LIABILITY AND NEGLIGENCE), AND WHETHER OR NOT IT WAS, OR SHOULD HAVE BEEN, AWARE OR ADVISED OF THE POSSIBILITY OF SUCH DAMAGE AND NOTWITHSTANDING THE FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY STATED HEREIN. NAVER BUSINESS PLATFORM'S AGGREGATE LIABILITY UNDER THIS CPS IS LIMITED TO \$500.

9.9 Indemnities

9.9.1 By Subscriber

To the extent permitted by law, each Subscriber shall indemnify NAVER BUSINESS PLATFORM, its partners, and any cross-signed entities, and their respective directors, officers, employees, agents, and contractors against any loss, damage,

or expense, including reasonable attorney's fees, related to (i) any misrepresentation or omission by Subscriber, regardless of whether the misrepresentation or omission was intentional or unintentional; (ii) Subscriber's breach of its Subscriber Agreement, this CPS, or applicable law; (iii) the compromise or unauthorized use of a certificate or Private Key caused by the Subscriber's negligence or intentional acts; or (iv) Subscriber's misuse of a certificate or Private Key.

9.9.2 By Relying Parties

To the extent permitted by law, each Relying Party shall indemnify NAVER BUSINESS PLATFORM, its partners, and any cross-signed entities, and their respective directors, officers, employees, agents, and contractors against any loss, damage,

or expense, including reasonable attorney's fees, related to the Relying Party's (i) breach of any service terms applicable to the services provided by NAVER BUSINESS PLATFORM or its affiliates and used by the Relying Party, this CPS, or applicable law; (ii) unreasonable reliance on a certificate; or (iii) failure to check the certificate's status prior to use.

9.10 Term and Termination

9.10.1 Term

The CPS becomes effective from the time set forth in this document after publication in the repository (website). Amendments to this CPS take effect after publication in the repository.

9.10.2 Termination

This CPS and the related policy documents remain in effect until replaced by a newer version.

9.10.3 Effect of Termination and Survival

Upon termination of this CPS, this CPS remains in effect for all the certificates issued for the remainder of their validity period.

9.11 Individual Notices and Communications with Participants

All the participants, including the relying parties, may communicate with each other in a reasonable manner if necessary.

9.12 Amendments

9.12.1 Procedure for Amendment

NAVER BUSINESS PLATFORM may revise and change this CPS at any time at its sole discretion and without giving prior notice to its subscribers or relying parties in accordance with the procedures specified in Section 1.5.4. NAVER BUSINESS PLATFORM may publish all the modified versions of the CPS on the website.

9.12.2 Notification Mechanism and Period

NAVER BUSINESS PLATFORM may use the website or other effective methods to notify the major relying parties of changes in the CPS if necessary.

9.12.3 Circumstances Under Which OID Must be Changed

NAVER BUSINESS PLATFORM is solely responsible for determining whether an amendment to the CPS requires an OID change.

9.13 Dispute Resolution Provisions

Parties are required to notify NAVER BUSINESS PLATFORM and attempt to resolve disputes directly with NAVER BUSINESS PLATFORM before resorting to any dispute resolution mechanism, including adjudication or any type of alternative dispute resolution.

9.14 Governing Law

No stipulation

9.15 Compliance with Applicable Law

This CPS is subject to all applicable laws and regulations.

9.16 Miscellaneous Provisions

9.16.1 Entire Agreement

NAVER BUSINESS PLATFORM contractually obligates each RA to comply with this CPS and applicable industry guidelines. NAVER BUSINESS PLATFORM also requires each party using its products and services to enter into an agreement that delineates the terms associated with the product or service. If an agreement has provisions that differ from this CPS, then the agreement with that party controls, but solely with respect to that party. Third parties may not rely on or bring action to enforce such agreement.

9.16.2 Assignment

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

9.16.3 Severability

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

9.16.4 Enforcement (Attorneys' Fees and Waiver of Rights)

NAVER BUSINESS PLATFORM may seek indemnification and attorneys' fees from a party for damages, losses, and expenses related to that party's conduct. NAVER BUSINESS PLATFORM failure to enforce a provision of this CPS does not waive NAVER BUSINESS PLATFORM right to enforce the same provision later or right to enforce any other provision of this CPS. To be effective, waivers

must be in writing and signed by NAVER BUSINESS PLATFORM.

9.16.5 Force Majeure

NAVER BUSINESS PLATFORM is not liable for any delay or failure to perform an obligation under this CPS to the extent that the delay or failure is caused by natural disasters, acts of war, terrorism or any other similar cause beyond the reasonable control of NAVER BUSINESS PLATFORM.

9.17 Other Provisions

No stipulation.

APPENDIX A: CERTIFICATE PROFILES

Root CA Certificate

Version	V3	
Serial Number	01 94 30 1e a2 0b dd f5 c5 33 2a b1 43 44 71 f8 d6 50 4d 0d	
Signature Algorithm	sha384RSA	
Issuer	CN	NAVER Global Root Certification Authority
	O	NAVER BUSINESS PLATFORM Corp.
	C	KR
Validity	Not Before: Aug 18 08:58:42 2017 GMT Not After : Aug 18 23:59:59 2037 GMT	
Subject	CN	NAVER Global Root Certification Authority
	O	NAVER BUSINESS PLATFORM Corp.
	C	KR
Key Usage	Certificate Signing, Off-line CRL Signing, CRL Signing (06)	
Basic Constraints	Subject Type=CA Path Length Constraint=None	

CA Certificate

Version	V3	
Serial Number	06 04 62 33 a5 82 55 76 a4 82 72 69 47 18 a8 00 0f 2f 00 0d	
Signature Algorithm	sha256RSA	
Issuer	CN	NAVER Global Root Certification Authority
	O	NAVER BUSINESS PLATFORM Corp.
	C	KR
Validity	Not Before: Aug 18 10:05:55 2017 GMT Not After : Aug 18 23:59:59 2027 GMT	
Subject	CN	NAVER Secure Certification Authority 1
	O	NAVER BUSINESS PLATFORM Corp.
	C	KR
Authority Key Identifier	KeyID=d2 9f 88 df a1 cd 2c bd ec f5 3b 01 01 93 33 27 b2 eb 60 4b	
Key Usage	Certificate Signing, Off-line CRL Signing, CRL Signing (06)	
Basic Constraints	Subject Type=CA Path Length Constraint=0	
Certificate Policy	[1]Certificate Policy: Policy Identifier=1.2.410.200081.2.1.1	

CRL Distribution Points	[1]CRL Distribution Point Distribution Point Name: Full Name: URL=http://rca.navercorp.com/arl/Arl1Dp1.crl
Authority Information Access	[1]Authority Info Access Access Method=On-line Certificate Status Protocol (1.3.6.1.5.5.7.48.1) Alternative Name: URL=http://ocsp-rca.navercorp.com/ocsp [2]Authority Info Access Access Method=Certification Authority Issuer (1.3.6.1.5.5.7.48.2) Alternative Name: URL=http://rca.navercorp.com/cert/naverrca1.der

OCSP Responder Certificate

Version	V3
Serial Number	39 64 b8 57 f1 cb 7e 9e 7b 1e 18 47 8b 56 3f 9e ea ba cc 67
Signature Algorithm	sha256RSA
Issuer	CN NAVER Secure Certification Authority 1
	O NAVER BUSINESS PLATFORM Corp.
	C KR
Validity	Not Before: Jul 24 06:01:34 2019 GMT Not After: Aug 18 14:59:59 2021 GMT
Subject	CN CN = NAVER Secure CA 1 OCSP
	O NAVER BUSINESS PLATFORM Corp.
	C KR
Authority Key Identifier	KeyID=e9 f9 eb 97 be 21 f2 54 c7 e9 26 37 02 39 ba fc b1 9b 0c e9
Key Usage	Digital Signature (80)
Basic Constraints	Subject Type=End Entity Path Length Constraint=None
Certificate Policy	[1]Certificate Policy: Policy Identifier=1.2.410.200081.2.4.2
Extended Key Usage	OCSP Signing (1.3.6.1.5.5.7.3.9)
CRL Distribution Points	[1]CRL Distribution Point Distribution Point Name: Full Name: URL=http://ica.navercorp.com/crl/Cr11p1Dp1.crl

Authority Information Access	[1]Authority Info Access Access Method=Certification Authority Issuer (1.3.6.1.5.5.7.48.2) Alternative Name: URL=http://ica.navercorp.com/cert/naverica1.der
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Domain Validation Subscriber Certificate

Version	V3
Serial Number	
Signature Algorithm	sha256RSA
Issuer	CN NAVER Secure Certification Authority 1
	O NAVER BUSINESS PLATFORM Corp.
	C KR
Validity	Not Before: - Not After: -
Subject	CN Common name
Authority Key Identifier	KeyID=e9 f9 eb 97 be 21 f2 54 c7 e9 26 37 02 39 ba fc b1 9b 0c e9
Extended Key Usage	Server Authentication (1.3.6.1.5.5.7.3.1) Client Authentication (1.3.6.1.5.5.7.3.2)
Key Usage	Digital Signature, Key Encipherment (a0)
Basic Constraints	Subject Type=End Entity Path Length Constraint=None
Certificate Policy	[1]Certificate Policy: Policy Identifier=2.23.140.1.2.1 [2]Certificate Policy: Policy Identifier=1.2.410.200081.2.2.3.1
Subject Alternative Name	DNS Name=Domain Name 1 DNS Name=Domain Name 2 DNS Name=Domain Name 3 ...

CRL Distribution Points	[1]CRL Distribution Point Distribution Point Name: Full Name: URL=http://ica.navercorp.com/crl/Cr1p1Dp1.crl
Authority Information Access	[1]Authority Info Access Access Method=On-line Certificate Status Protocol (1.3.6.1.5.5.7.48.1) Alternative Name: URL=http://ocsp-ica.navercorp.com/ocsp [2]Authority Info Access Access Method=Certification Authority Issuer (1.3.6.1.5.5.7.48.2) Alternative Name: URL=http://ica.navercorp.com/cert/naverica1.der

Organization Validation Subscriber Certificate

Version	V3
Serial Number	
Signature Algorithm	sha256RSA
Issuer	CN NAVER Secure Certification Authority 1
	O NAVER BUSINESS PLATFORM Corp.
	C KR
Validity	Not Before: - Not After: -
Subject	CN common name
	OU organizational unit
	O organization name
	L locality
	S state or province
	C country code
Authority Key Identifier	KeyID=e9 f9 eb 97 be 21 f2 54 c7 e9 26 37 02 39 ba fc b1 9b 0c e9
Extended Key Usage	Server Authentication (1.3.6.1.5.5.7.3.1) Client Authentication (1.3.6.1.5.5.7.3.2)
Key Usage	Digital Signature, Key Encipherment (a0)
Basic Constraints	Subject Type=End Entity Path Length Constraint=None

Certificate Policy	[1]Certificate Policy: Policy Identifier=2.23.140.1.2.2 [2]Certificate Policy: Policy Identifier=1.2.410.200081.2.2.3.2
Subject Alternative Name	DNS Name=Domain Name 1 DNS Name=Domain Name 2 DNS Name=Domain Name 3 ...
CRL Distribution Points	[1]CRL Distribution Point Distribution Point Name: Full Name: URL=http://ica.navercorp.com/crl/Cr1p1Dp1.crl
Authority Information Access	[1]Authority Info Access Access Method=On-line Certificate Status Protocol (1.3.6.1.5.5.7.48.1) Alternative Name: URL=http://ocsp-ica.navercorp.com/ocsp [2]Authority Info Access Access Method=Certification Authority Issuer (1.3.6.1.5.5.7.48.2) Alternative Name: URL=http://ica.navercorp.com/cert/naverica1.der

APPENDIX B: CHANGE HISTORY

The following revisions have been made to the original document

Date	Description	Version
28 August, 2020	<ul style="list-style-type: none"> In section 3.1.1 Type of Names, added that the constituent elements of the subject DN of NAVER BUSINESS PLATFORM certificates conform to ITU X.500 In section 3.1.5 Uniqueness of Name, amended an ambiguous sentence "NAVER BUSINESS PLATFORM complies with the uniqueness of domain names of the server security certificate controlled by ICANN" to "name uniqueness is enforced through the domain name system controlled by ICANN and that any FQDN in a Common Name must appear in a Subject 	1.4.2

	<p>Alternative Name in the certificate that has been verified in accordance with section 3.2.2.4”</p> <ul style="list-style-type: none"> • In section 3.2.2.1 Identity, added detail process of Organization Identity, Applicant Representative Identity and Organization address verification • In section 3.2.2.7 Data Source Accuracy and Validity Periods, Validity Periods are updated (On or after 1 September 2020: 397 days) • In section 3.3.1 Identification and Authentication for Routine Re-Key, section reference updated from ‘3.2’ to ‘3.2.2’ • In section Identification and Authentication for Re-Key After Revocation, since re-key after certificate revocation does not supported, deleted section reference to 3.2 • In section 4.1.1 Who can Submit a Certificate Application, deleted ambiguous expression and added online application • In section 4.2.4 Certificate Authority Authorization (CAA) Records, in according to Baseline Requirement, RFC 6844 updated to RFC 8659 • In section 6.3.2 Certificate Operational Periods and Key Pair Usage Periods, usage periods are updated (On or after 1 September 2020: 397 days) • In section 7.1.4.2 Subject Information - Subscriber Certificates, since IP Address in a Subject attribute does not supported, deleted ‘IP Addresses’ that are not needed in context • In section 7.3 OCSP Profile, amended an ambiguous sentence “It does respond with an “Unknown” value on the certificates, which have not been issued in compliance with the CA Browser Forum's Baseline Requirements.” to “The OCSP responder does not respond with a “Good” for a certificate that it has no record of issuing.” • In section 8.2 Identity/Qualifications of Assessor, updated and amended on Identity/Qualifications of Assessor 	
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	<ul style="list-style-type: none"> • In APPENDIX A: CERTIFICATE PROFILES, amended on validity attributes of the certificates 	
28 July, 2020	<ul style="list-style-type: none"> • In section 1.1 Overview, added a paragraph which is explain the condition when the CABF Baseline Requirement take precedence over this document • In section 1.2 Document Name and Identification, updated to refer the CPS revisions information to APPENDIX B • In section 1.3.2 Registration Authorities, added a detail information of who will not perform the RA functions • In section 1.3.3 Subscribers, amended the phrase “entity in Korea” to “entity”, and changed some ambiguous expression • In section 1.3.4 Relying Parties, amended the definition of a relying party • In section 1.5.2 Contact Person, updated detail situations and information to contact • In section 1.5.4 CPS Approval Procedures, updated the CPS published URL information • In section 1.6.1 Definitions, updated the definition of WebTrust • In section 1.6.2 Acronyms, changed the erroneous acronym “CAB” to “CABF” • In section 2.2 Publication of Certification Information, Updated the address information • In section 2.3 Time or Frequency of Publication, amended the frequency of CRL update and the validity period, and updated the CPS revision rules • In section 3.1.1 Types of Names, added detail information of the type of names • In section 3.1.2 Need for Names to be Meaningful, amended the expression “extensions” to “fields” • In section 3.1.4 Rules for Interpreting Various Name Forms, added the interpretation information of the DN • In section 3.1.5 Uniqueness of Name, added the information of the uniqueness of name • In section 3.2.1 Method to Prove Possession of Private Key, amended the phrase “must prove” to “normally proves” • In section 3.2.2 Authentication of Organization Identity, amended some ambiguous expression 	1.4.1

	<ul style="list-style-type: none"> • In section 3.2.2.4 Validation of Domain Authorization or Control, deleted previous version of the Baseline Requirements • In section 3.2.2.6 Wildcard Domain Validation, added PSL as the judgment criterion of “public suffix” • In section 3.2.4 Non-verified Subscriber Information, added the subscriber information verification rules • In section 3.2.5 Validation of Authority, added detail rules of the Applicant and agent validation • In section 3.4 Identification and Authentication for Revocation Request, amended the target of the subscriber certificate revocation notice • In section 4.1.1 Who can Submit a Certificate Application, changed the phrase “WHOIS or a trusted database” to “WHOIS and a trusted database” • In section 4.1.2 Enrollment Process and Responsibilities, deleted an ambiguous reference • In section 4.6.1 Circumstances for Certificate Renewal, amended an erroneous sentence • In section 4.9.1.1 Reasons for Revoking a Subscriber Certificate, updated the certificate revocation rules • In section 4.9.2 Who Can Request Revocation, deleted an ambiguous sentence • In section 4.9.3 Procedure for Revocation Request, amended ambiguous sentences, and added a criteria of decision whether revocation is appropriate • In section 4.9.5 Time Within Which CA Must Process the Revocation Request, amended the certificate revocation timeline and CRL update • In section 4.9.6 Revocation Checking Requirement for Relying, added revocation checking requirements for Relying Parties • In section 4.9.7 CRL Issuance Frequency, deleted unnecessary information • In section 4.9.8 Maximum Latency for CRLs, amended with more accurate information of the latency for CRLs • In section 4.9.9 On-Line Revocation/Status Checking Availability, added OCSP responder certificate profile in APPENDIX A 	
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	<ul style="list-style-type: none"> • In section 5.2.1 Trusted Roles, updated the definitions of the trusted roles • In section 5.2.4 Roles Requiring Separation of Duties, added more specific separation of duties for Trusted Roles • In section 5.4.2 Frequency of Processing Log, added more specific information of the frequency of processing log • In section 5.4.4 Protection of Audit Log, amended ambiguous sentences • In section 5.7.3 Entity Private Key Compromise Procedures, added the Root CA private key compromise notification procedures • In section 6.7 Network Security Controls, added more specific network security controls compliance with CABF's Network and Certificate System Security Requirements • In section 7.1.4 Name Forms, added section 7.1.4.1 and 7.1.4.2 • In section 7.3 OCSP Profile, amended the ambiguous phrase "It does not respond with a 'Good'" to "It does respond with a 'Unknown'" • In section 9.4.1 Privacy Plan, added the privacy policy URL • In section 9.5 Intellectual Property rights, added section 9.5.1, 9.5.2, 9.5.3 and 9.5.4 • In section 9.16.5 Force Majeure, updated more specific case of the delay or failure that is caused by an occurrence beyond reasonable control • Added APPENDIX B: CHANGE HISTORY • Changed the expression "The NAVER BUSINESS PLATFORM" to "NAVER BUSINESS PLATFORM" 	
28 November, 2019	Updated 5.2.2 Number of Persons Required per Task, 5.4.1 Types of Events Recorded	1.4
19 November, 2019	Yearly update	1.3
14 November, 2018	Added Appendix A: Certificate Profiles	1.2
10 September, 2018	Yearly update, including CAA record information	1.1
11 September, 2017	Initial release.	1.0