



Digi-Sign Certification Services Limited

OCBC Wing Hang Bank Limited

Certificate Policy

OID: 1.3.6.1.4.1.8420.21.1.1

Based on the Digi-Sign “General Purpose” CA Hierarchy and supported by the
Digi-Sign “General Purpose” CPS

Oct 2014



Table of Contents

1	INTRODUCTION	1
1.1.	OVERVIEW	1
1.1.1.	Recognized and General Purpose Certificate	1
1.2.	POLICY IDENTIFICATION	1
1.2.1.	Certificate Policy (CP) Identification	1
1.2.2.	CPS Identification	1
1.3.	COMMUNITY AND APPLICABILITY	2
1.3.1.	Policy Approval Authority	2
1.3.2.	Certification Authority (CA)	2
1.3.3.	Registration Authority (RA)	2
1.3.4.	Subscribers	3
1.3.5.	Relying Parties	3
1.3.6.	Applicability	3
1.4.	CONTACT DETAILS	3
1.4.1.	Contact Person	3
1.4.2.	Person determining CPS suitability for this policy	3
1.5.	RELATIONSHIP BETWEEN THIS CP AND THE ASSOCIATED CERTIFICATION PRACTICE STATEMENT (CPS) 3	
1.5.1.	Hierarchy of documents	4
2.	GENERAL PROVISIONS	5
2.1	OBLIGATIONS	5
2.1.1.	Root Certification Authority (RCA) Obligations	5
2.1.2.	Certification Authority (CA) Obligations	5
2.1.3.	Repository Obligations	6
2.1.4.	Subscriber Obligations	6
2.1.5.	Relying Parties Obligations	7
2.2.	LIABILITY	7
2.3.	FINANCIAL RESPONSIBILITY	8
2.3.1.	Indemnification of CA and / or RA	8
2.3.2.	Fiduciary Relationships	8
2.3.3.	Administrative Processes	8
2.4.	INTERPRETATION AND ENFORCEMENT	8
2.4.1.	Governing Law	8
2.4.2.	Dispute Resolution	8
2.5.	FEES	8
2.6.	PUBLICATION AND REPOSITORIES	9



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

2.6.1.	Publication of CA information	9
2.6.2.	Frequency of Publication.....	9
2.6.3.	Access Control	9
2.7.	COMPLIANCE AUDIT	9
2.8.	CONFIDENTIALITY	9
2.9.	INTELLECTUAL PROPERTY RIGHTS	9
2.9.1.	Attribution	9
3.	IDENTIFICATION AND AUTHENTICATION	11
3.1.	INITIAL REGISTRATION.....	11
3.1.1.	Types of names.....	11
3.1.2.	Need for names to be meaningful.....	11
3.1.3.	Rules for interpreting various name forms	11
3.1.4.	Uniqueness of names.....	11
3.1.5.	Name claim dispute resolution procedure	11
3.1.6.	Recognition, authentication and role of trademarks	12
3.1.7.	Method to prove possession of private key	12
3.1.8.	Authentication of organization identity	12
3.1.9.	Authentication of individual identity.....	12
3.2.	CERTIFICATE RENEWAL	12
3.3.	RENEWAL AFTER REVOCATION.....	13
3.4.	REVOCATION REQUEST.....	13
4.	OPERATIONAL REQUIREMENTS.....	14
4.1.	CERTIFICATE APPLICATION	14
4.2.	CERTIFICATE ISSUANCE	14
4.3.	CERTIFICATE ACCEPTANCE	14
4.4.	CERTIFICATE SUSPENSION AND REVOCATION.....	15
4.4.1.	Circumstances for revocation	15
4.4.2.	Who can request revocation	15
4.4.3.	Procedure for revocation request	15
4.4.4.	Revocation request grace period.....	18
4.4.5.	Circumstances for suspension	18
4.4.6.	Who can request suspension.....	18
4.4.7.	Procedure for suspension request	18
4.4.8.	Limits on suspension period	18
4.4.9.	CRL issuance frequency.....	18
4.4.10.	Certificate status checking requirements	18
4.4.11.	On-line revocation/status checking availability.....	18



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

4.4.12.	On-line revocation checking requirements	18
4.4.13.	Other forms of revocation advertisements available	18
4.4.14.	Checking requirements for other forms of revocation advertisements.....	18
4.4.15.	Special requirements re key compromise	18
4.5.	SECURITY AUDIT PROCEDURES	19
4.6.	RECORDS ARCHIVAL.....	19
4.7.	KEY CHANGEOVER	19
4.8.	COMPROMISE AND DISASTER RECOVERY	19
4.9.	CA TERMINATION.....	19
5.	PHYSICAL, PROCEDURAL AND PERSONNEL SECURITY CONTROLS.....	20
5.1.	PHYSICAL SECURITY CONTROLS.....	20
5.2.	PROCEDURAL CONTROLS.....	20
5.3.	PERSONNEL SECURITY CONTROLS.....	20
6.	TECHNICAL SECURITY CONTROLS.....	21
6.1.	KEY PAIR GENERATION AND INSTALLATION	21
6.1.1.	Key pair generation	21
6.1.2.	Private Key delivery to entity	21
6.1.3.	Public Key delivery to certificate issuer	21
6.1.4.	CA Public Key delivery to users	22
6.1.5.	Key sizes	22
6.1.6.	Public Key parameters generation	22
6.1.7.	Parameter quality checking	22
6.1.8.	Hardware/software key generation.....	22
6.1.9.	Key usage purposes	22
6.2.	PRIVATE KEY PROTECTION.....	22
6.2.1.	Standards for cryptographic module.....	22
6.2.2.	Private key (n out of m) multi-person control	22
6.2.3.	Private key escrow.....	22
6.2.4.	Private key backup	22
6.2.5.	Private key archival	22
6.2.6.	Private key entry into cryptographic module.....	23
6.2.7.	Method of activating private key.....	23
6.2.8.	Method of deactivating private key	23
6.2.9.	Method of destroying private key.....	23
6.3.	OTHER ASPECTS OF KEY PAIR MANAGEMENT.....	23
6.3.1.	Public key archival	23
6.3.2.	Usage periods for the public and private keys.....	23



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

6.4.	ACTIVATION DATA	24
6.4.1.	Activation data generation and installation	24
6.4.2.	Activation data protection	24
6.5.	COMPUTER SECURITY CONTROLS	24
6.6.	LIFE CYCLE TECHNICAL CONTROLS	24
6.7.	NETWORK SECURITY CONTROLS	24
6.8.	CRYPTOGRAPHIC MODULE ENGINEERING CONTROLS.....	24
7.	CERTIFICATE AND CRL PROFILES	25
7.1.	CERTIFICATE PROFILE.....	25
7.1.1.	Version number(s)	25
7.1.2.	Certificate extensions	25
7.1.3.	Algorithm object identifiers	25
7.1.4.	Name forms	26
7.1.5.	Name constraints	26
7.1.6.	Certificate policy object identifier	26
7.1.7.	Usage of policy constraints extension	26
7.1.8.	Policy qualifiers syntax and semantics	26
7.1.9.	Processing semantics for the critical certificate policy extension	27
7.2.	CRL PROFILE.....	27
8.	SPECIFICATION ADMINISTRATION	28
8.1.	SPECIFICATION CHANGE PROCEDURES	28
8.2.	PUBLICATION AND NOTIFICATION POLICIES	28
8.2.1.	CP Publication and Notification	28
8.3.	CPS / CP APPROVAL PROCEDURES	28



1 INTRODUCTION

Section 1: Introduction: This section identifies and introduces the Certificate Policy (CP) provisions, and indicates the types of entities and applications for which the CP is targeted.

1.1. Overview

This Certificate Policy (CP) is known as the Digi-Sign “OCBC Wing Hang Bank Limited” CP. It describes the practices and procedures involved in the issuance of public key digital certificates (branded Premium Certificate) by Digi-Sign’s “General Purpose” PKI hierarchy for the customers of OCBC Wing Hang Bank Limited (“OCBC Wing Hang”) and its subsidiaries.

1.1.1. Recognized and General Purpose Certificate

Refer to CPS.

1.2. Policy Identification

1.2.1. Certificate Policy (CP) Identification

This CP has been allocated the OID: 1.3.6.1.4.1.8420.21.1.1, constructed as follows:

1.3	ISO assigned / ISO identified organization
6.1.4.1	Internet related IANA registered private enterprise
8420	Digi-Sign Certification Services Limited
21	OCBC WING HANG CP document number
1.0 (example)	Version number

1.2.2. CPS Identification

The accompanying CPS to this CP has been allocated the OID: 1.3.6.1.4.1.8420.4.N.N, where N.N indicates the version number. The CPS is published on a Digi-Sign website, as follows: <http://www.dg-sign.com>. Certificates supported by this CPS may contain the Uniform Resource Identifier (URI) of the CPS in the CPS pointer qualifier field of the *Certificate Policies* extension (i.e. www.dg-sign.com).



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

1.3. Community and Applicability

This CP is applicable to:

- the Digi-Sign “General Purpose” Certification Authority
- OCBC Wing Hang, in the capacity of being the Registration Authority (RA) under the Digi-Sign “General Purpose” hierarchy
- Subscribers, being OCBC Wing Hang’s Registered Users and registered for Digi-Sign “General Purpose” keys and certificates.

1.3.1. Policy Approval Authority

The practices and procedures in this CP are approved and published by a Policy Approval Authority (PAA). The Digi-Sign Management Committee (Digi-Sign Senior Managers) act as the Digi-Sign PAA. The PAA maintains the integrity of the policy infrastructure for the Digi-Sign “General Purpose” PKI.

1.3.2. Certification Authority (CA)

The primary purpose of the CA is to provide certificates and certificate management services to Subscribers (certificate holders) within its certificate policy domains. Under this CP, the Digi-Sign CA will issue “General Purpose” certificates to Registered Users of OCBC Wing Hang.

1.3.3. Registration Authority (RA)

Registration Authority is subordinated to the CA. The primary purpose of the RA is to

- receive and authenticate Subscribers' applications for the issuance of certificates
- receive and authenticate Subscribers' requests for the revocation of certificates
- submit certification and revocation request to the CA
- distribute certificate and the corresponding PIN mailer to the Subscriber

Under this CP, OCBC Wing Hang under the role RA (refer to section 2.1.2.2 for details) performs the following RA functions:

- receive and authenticate Subscribers' applications for the issuance of certificates
- receive and authenticate Subscribers' requests for the revocation of certificates
- submit certification and revocation request to the CA
- distribute certificate and the corresponding PIN mailer to the Subscriber



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

1.3.4. Subscribers

Subscribers under this CP are OCBC Wing Hang's Registered Users (i.e. persons or organizations who are customers of OCBC Wing Hang and apply to Digi-Sign through OCBC Wing Hang for issuance of keys and certificates).

1.3.5. Relying Parties

The only parties authorized to rely on these certificates are OCBC Wing Hang and the Subscribers.

1.3.6. Applicability

1.3.6.1. General Purpose

These certificates are to be used solely for services defined by OCBC Wing Hang.

1.3.6.2. Restrictions on Use

These certificates may only be used for the purposes and in the manner described within this CP.

1.3.6.3. Prohibitions on Use

These certificates are not to be used for any purposes which have not been authorized by OCBC Wing Hang.

1.4. Contact Details

Refer to the CPS.

1.4.1. Contact Person

Refer to the CPS.

1.4.2. Person determining CPS suitability for this policy

The Digi-Sign PAA will determine whether the accompanying CPS provides suitable support for this CP. The PAA will review both documents to ensure that the practices documented in the CPS fulfil the requirements defined in this CP.

1.5. Relationship between this CP and the associated Certification Practice Statement (CPS)

This CP defines and limits the use of certificates issued to OCBC Wing Hang's Registered Users. This CP is supported by the Digi-Sign "General Purpose" CPS, which explains how the requirements of the CP are met in procedural and operational terms.



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

1.5.1. Hierarchy of documents

The CPS contains default provisions that are overridden by the contents of this CP. In most cases the contents of the CPS and the CP are complementary, that is, some of the components set down by RFC2527 appear in the CPS and the remaining components appear in the applicable CP. However, in cases where both the CPS and the CP contain the same component, this CP will take precedence over the CPS.

In case of conflict, the *Digi-Sign Premium Certificate Service Agreement* between Digi-Sign and OCBC Wing Hang takes precedence over the CP and the CPS; and this CP takes precedence over the CPS.



2. GENERAL PROVISIONS

Section 2: General Provisions: This section specifies the applicable presumptions on a range of legal and general practices topics. These provisions must be considered in conjunction with the broad principles set out in the CPS and the terms and provisions of the *Digi-Sign Premium Certificate Service Agreement*. In case of conflict, the *Digi-Sign Premium Certificate Service Agreement* overrides the CP and CPS.

2.1 Obligations

2.1.1. Root Certification Authority (RCA) Obligations

Refer to CPS.

2.1.2. Certification Authority (CA) Obligations

2.1.2.1. Certification Authority (CA) Obligations

Refer to CPS.

2.1.2.2. Registration Authority (RA) Obligations

OCBC Wing Hang shall perform the Registration Authority function for the Digi-Sign CA under this CP. As RA, OCBC Wing Hang accepts the following obligations:

- Accepting certificate applications from OCBC Wing Hang Registered Users, including obtaining evidence of organization identity, obtaining certificate applications information and accepting or rejecting applications (provided that Digi-Sign reserve the right to reject any applications if Digi-Sign reasonably consider the applications have not fully complied with this CP, the CPS and the documents referred therein).
- Advising Subscribers of their obligations, including their duty to safeguard their private keys and promptly report any compromise or suspected compromise.
- Pursuant to the Subscriber's applications, preparing and submitting Keys Request File (KRF) to Digi-Sign and ensuring the information in the KRF are true, correct and free from data entry errors by verifying the same against the information known to the RA at time of submission.
- Dispatch the PIN mailers to the Subscribers in a secure manner.
- Keeping all registration records during the validity of the relevant certificate.
- Ensuring that Registered Users execute the relevant documents in the form and manner approved by Digi-Sign and OCBC Wing Hang, which approval shall not be unreasonably withheld or delayed by either Digi-Sign or OCBC Wing Hang.
- Complying with all reasonable notices, instructions and manuals issued by Digi-Sign from time to time and approved by OCBC Wing Hang (which approval shall not be unreasonably withheld or delayed).
- Following the applicable procedures and practices specified in this CP the associated CPS when discharging the obligations as RA.



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

- Indemnify Digi-Sign against any actual direct costs reasonably incurred by Digi-Sign to the extent attributable to any failure to observe these obligations.

For the avoidance of doubt, neither OCBC Wing Hang nor Digi-Sign shall be responsible for authentication of the identity of any authorized users of any Subscribers, in relation to or in connection with their certificate applications.

2.1.3. Repository Obligations

Refer to CPS.

The Digi-Sign General Purpose Repository can be assessed at: <ldap1.dg-sign.com>.

2.1.4. Subscriber Obligations

Subscribers under this CP are the Registered Users of OCBC Wing Hang. Subscriber obligations include:

- Understand and comply with all directions and regulations from OCBC Wing Hang when using the certificate and the private key;
- Use the certificate and the private key strictly in accordance with this CP, any applicable written contract and the CPS;
- Provide true and correct information upon applying for key and certificate and notify the RA immediately of any changes thereafter;
- Take all necessary steps to ensure the key and certificate are handled and accessed by users duly authorized by the Subscriber only;
- Notify the RA immediately upon the occurrence of the following:
 - Loss of the private key
 - Compromise or suspected compromise of the private key
 - Failure of the protection of the private key, or suspected failure of the protection.
- Notify the relying party of the above occurrences, where the certificate has been used in any transaction or communication between the Subscriber and the relying party;
- Undertake to stop the use of the certificate immediately upon the following:
 - The Subscriber has lodged a request with the RA to revoke the certificate, or has been notified by the RA of the revocation of the certificate; or
 - The Subscriber has become aware of any event that Digi-Sign would normally rely upon as reason for revocation of the certificate, as listed in section 4.4.1 of this CP or the CPS.
- Undertake not to:
 - Use the private key in a manner that may infringe the rights of a third party; or
 - Assign any rights under the Subscriber Agreement or other applicable contract.



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

- Indemnify Digi-Sign against any actual direct costs reasonably incurred by Digi-Sign to the extent attributable to the Subscriber's:
 - failure to maintain the protection of the private key; or
 - misuse of the private key.

2.1.5. Relying Parties Obligations

Only OCBC Wing Hang and its Registered Users are allowed to rely on certificate issued under this CP. For the purpose of this CP, the act of acceptance of a certificate issued under this CP is referred to as reliance on the certificate and the digital signature of the Subscriber. The relying party has a duty to decide whether to rely on the certificate. Once this relying party has decided to do so, it has the obligation to:

- Understand the usage for which the certificate is issued; and
- Accept the responsibility to:
 - Check if the certificate or the issuing CA's certificate have been suspended or revoked before relying on it; and
 - Check if the certificate or the issuing CA's certificate have expired before relying on it; and
 - Verify the digital signature, including the performance of all appropriate certificate path validation procedures.
- Accept that the use of the certificate is subject to applicable liability and warranty disclaimers outlined in section 2.2 *Liability* of this CP.
- Accept that the use of the certificate is specifically for the limited purpose as outlined in Section 1.3 *Community and Applicability* of this CP, particularly as to any restrictions and prohibitions on use.

2.2. Liability

The warranties expressly specified in:

- the *Digi-Sign Premium Certificate Service Agreement* between Digi-Sign and OCBC Wing Hang, and
- the Digi-Sign "General Purpose" CPS associated with this CP

are the sole and exclusive warranties given by Digi-Sign. No implied or other express warranties are given by Digi-Sign or by any other entity who may be involved in the issuing or managing of key pairs and/or certificates and all statutory warranties are to the fullest extent permitted by law expressly excluded.

Digi-Sign's liability, if any, is limited according to the terms and provisions contained in the *Digi-Sign Premium Certificate Service Agreement* between Digi-Sign and OCBC Wing Hang. However, Digi-Sign shall in any event not be liable to the Subscribers or any relying parties for loss or damages in excess of a liability cap of HK\$200,000.00 ("the Liability Cap") in respect of one certificate and irrespective of the number of transactions involved in that one certificate and irrespective of whether the loss or damages are caused by the negligence or default of Digi-Sign.



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

2.3. Financial Responsibility

2.3.1. Indemnification of CA and / or RA

OCBC Wing Hang and Digi-Sign shall indemnify and at all time keep each other fully indemnified for all loss and damage suffered to the extend solely and directly resulting from any fraud or deception committed by or other act of dishonesty of the other party.

The Subscriber shall indemnify and at all time keep Digi-Sign fully indemnified for all loss and damage suffered by Digi-Sign resulting from:

- all breach, non compliance or non observance of the Subscriber and relying party obligations in this CP, the CPS or the Subscriber Agreement; or
- any fraud or deception committed by or other act of dishonesty of the Subscriber.

2.3.2. Fiduciary Relationships

Issuing certificates under this CP, or assisting in the issue of these certificates, does not make Digi-Sign an agent, fiduciary, trustee, or other representative of OCBC Wing Hang, any OCBC Wing Hang Registered User, Relying Party or other third party.

2.3.3. Administrative Processes

No stipulation.

2.4. Interpretation and Enforcement

2.4.1. Governing Law

This CP and the associated CPS and Digi-Sign Premium Certificate Service Agreement are governed by and construed in accordance with the laws of Hong Kong and the parties unconditionally and irrevocably submit to the non-exclusive jurisdiction of the courts of Hong Kong SAR.

2.4.2. Dispute Resolution

If a dispute arises the parties to the dispute will endeavor in good faith to settle the dispute by negotiation. The parties may also elect, if they so desire, to settle dispute using mediation and/or arbitration. Parties reserve the right to resolve disputes through litigation in the courts of Hong Kong SAR.

2.5. Fees

OCBC Wing Hang shall pay to Digi-Sign the sums as specified in the *Digi-Sign Premium Certificate Service Agreement* between Digi-Sign and OCBC Wing Hang for the establishment of the service and for each key pair generated by Digi-Sign under this CP, along with any other fees as may be listed in that Agreement.



2.6. Publication and Repositories

Refer to CPS.

2.6.1. Publication of CA information

Refer to CPS.

2.6.1.1. Publication of Policy and Practice Information

Refer to CPS.

2.6.2. Frequency of Publication

2.6.2.1. Frequency of Certificate Publication

Certificates will be published to the Digi-Sign's repository at OCBC Wing Hang's discretion.

2.6.2.2. Frequency of ARL/CRL Publication

While the certificate is revoked immediately after the CA processes the revocation request, any end user checking the validity of a certificate will not be able to detect the revocation until the next CRL posting.

The Root CA will publish an updated ARL as required.

The issuing CA will use its best endeavors to publish an updated CRL at least once every 24 hours.

2.6.3. Access Control

Refer to CPS.

2.7. Compliance Audit

Refer to CPS.

2.8. Confidentiality

Refer to CPS.

2.9. Intellectual Property Rights

Refer to CPS.

2.9.1. Attribution

The use of these documents in the preparation of this CP is gratefully acknowledged:



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

- Chokhani and Ford, *RFC2527: Internet X.509 Public Key Infrastructure Certificate Policy and Certification Practices Framework*, 1999 (© The Internet Society 1999), and
- American Bar Association, *PKI Assessment Guidelines: Public Draft for Comment*, v0.30 (© American Bar Association 2001).



3. IDENTIFICATION AND AUTHENTICATION

Section 3: Identification and Authentication: This section describes the procedures used to authenticate a certificate applicant to the RA prior to certificate issuance. It also describes requesting re-key and revocation. Section 3 also addresses naming practices, including name ownership recognition and name dispute resolution. Section 3 of this CP must be considered in conjunction with the relevant sections of the CPS and the *Digi-Sign Premium Certificate Service Agreement*.

3.1. Initial registration

3.1.1. Types of names

The certificates issued under this CP contain the name of the Subscriber in the X.509 certificate field *Subject Name*. This field is a unique identifier of the subject and contains a standards-based Distinguished Name, constructed as follows:

CN = [Name of Authorized User]
OU = [OCBC Wing Hang's Reference]
OU = [Name of Corporate Customer]
O = OCBC WING HANG BANK LIMITED
C = [HK or MO]

3.1.2. Need for names to be meaningful

Names used within Digi-Sign “General Purpose” OCBC Wing Hang certificates are intended to indicate a binding between a public key and a real-world identity. Anonymous or pseudonymous certificates are not supported.

3.1.3. Rules for interpreting various name forms

The certificates issued under this CP use standards-based distinguished names that are readily distinguishable and do not require special interpretive rules.

Note that the presence of any organizational or employment related information in a Subscriber's certificate or directory entry does not necessarily indicate authority to act on behalf of that organization or to bind the organization. Relying parties must take steps to verify and validate the authority of the certificate subject to represent the organization in any specific transaction.

3.1.4. Uniqueness of names

Names must be unambiguous and unique.

3.1.5. Name claim dispute resolution procedure

Digi-Sign has the sole absolute right on and shall be solely responsible for determining any name dispute. The decision of Digi-Sign shall be final.



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

3.1.6. Recognition, authentication and role of trademarks

Refer to CPS.

3.1.7. Method to prove possession of private key

Digi-Sign is solely responsible for key generation, and this is done centrally within the Digi-Sign premises, and in the Digi-Sign trustworthy system. Upon generation, the private key and public key certificate will be stored on appropriate storage media for dispatch to the Subscriber, and this will be done in a secure manner. As all keys are centrally generated, there is no requirement for the OCBC Wing Hang's Registered User to prove possession of the private key.

3.1.8. Authentication of organization identity

The RA is solely responsible for the authentication of organization's identity of Subscriber. It should ensure that the information provided to CA (if any) is true and correct. Such Subscribers shall in any event be bound by any transactions duly authenticated by a certificate issued pursuant hereto. Digi-Sign accepts no liabilities whatsoever for any loss or damages suffered by any relying parties arising out of or in relation to discrepancies or errors in the identity of Subscribers.

3.1.9. Authentication of individual identity

The RA is solely responsible for the authentication of individual identity of Subscriber. It should ensure that the information provided to CA (if any) is true and correct. Such Subscribers shall in any event be bound by any transactions duly authenticated by a certificate issued pursuant hereto. Digi-Sign accept no liabilities whatsoever for any loss or damages suffered by any relying parties arising out of or in relation to discrepancies or errors in the identity of Subscribers.

3.2. Certificate Renewal

Digi-Sign does not renew a general purpose certificate for OCBC Wing Hang customers. Upon approval of the application submitted by OCBC Wing Hang, Digi-Sign will generate a new key pair and certificate pursuant to the applicable procedure, as replacement before expiry of the Subscriber's existing key pair and certificate.

Before a certificate is due to expire, Digi-Sign will issue an expiry notice to OCBC Wing Hang. It will be up to OCBC Wing Hang to coordinate with the Subscriber to apply for a new certificate, and this should be done before the existing certificate expiry date.

Digi-Sign will be responsible for verifying the application against the information held in the Digi-Sign Subscriber database and approving such application.

Upon approval of the application, Digi-Sign will generate a new key pair and certificate for the Subscriber. Digi-Sign will follow the procedures in section 4.2 and section 4.3 as a means of confirmation of the receipt of the new key pair and certificate by the Subscriber.

Notwithstanding any provisions hereof to the contrary, nothing in this CP shall constitute any agreement or promise on the part of Digi-Sign to issue, or an option available to the Subscriber to demand issuance of, a new certificate to replace the one due to expire soon.



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

Digi-Sign reserves its absolute right to refuse the Subscriber's application for issuance of any certificate without giving any reasons.

3.3. Renewal after Revocation

Renewal is not permitted after certificate revocation. Subscribers requiring a replacement certificate after revocation must apply for a new certificate, complying with all initial registration procedures and requirements as though they were a new user.

3.4. Revocation Request

Revocation of a certificate is a permanent and irreversible event, meaning that the certificate cannot be used again.



4. OPERATIONAL REQUIREMENTS

Section 4: Operational Requirements: This section specifies requirements imposed upon issuing CA, subject CAs, RAs, or end entities with respect to various operational activities. As this section is concerned with operational detail, most of the relevant material is contained within the CPS.

4.1. Certificate Application

Upon submitting a Key Request File (“the KRF”) to Digi-Sign, OCBC Wing Hang warrants to Digi-Sign that the information provided therein is true and correct to the best of its knowledge, having made all reasonable inquiries with the relevant Subscribers, and when request to do so, provides further proof to substantiate the details completed therein.

It is the responsibility of OCBC Wing Hang to lodge the KRF to Digi-Sign, Digi-Sign will undertake to notify OCBC Wing Hang of the results of the applications within reasonable time (and in any event not more than 3 working days) of the decision to approve or reject the application.

Digi-Sign reserves its absolute right to change the procedure to process the applications from time to time without notice.

KRF must be in the format agreed by OCBC Wing Hang and Digi-Sign.

4.2. Certificate Issuance

In order to issue a certificate under this CP, the Digi-Sign CA constructs and populates the fields of an X.509 version 3 certificate, according to the requirements agreed with OCBC Wing Hang. The certificate is then signed with the Digi-Sign CA’s private authentication key. The certificate profile is defined within section 7 of this CP.

4.3. Certificate Acceptance

Acceptance is signified by the faxed-in confirmation of the dispatch control list from OCBC Wing Hang to Digi-Sign, or the Subscriber’s receipt of a certificate and their subsequent use of their keys and certificates. By accepting a certificate, the Subscriber:

- agrees to be bound by the continuing responsibilities, obligations and duties imposed on him/it by the Subscriber Agreement, the applicable CPS and this CP
- warrants that to his/its knowledge no unauthorised person has had access to the private key associated with the certificate
- asserts that the certificate information he/it has supplied during his registration interview is truthful and has been accurately and fully published within the certificate
- undertakes to inform OCBC Wing Hang and/or Digi-Sign immediately if his/its information has been changed.



4.4. Certificate Suspension and Revocation

4.4.1. Circumstances for revocation

Refer to CPS.

4.4.2. Who can request revocation

Before revoking a certificate, Digi-Sign must obtain reliable evidence of the identity of the party initiating the revocation request. The following parties are authorised to request revocation of a certificate issued under this CP:

- Digi-Sign
- OCBC Wing Hang RA

A Subscriber and the authorised employee of the sponsoring organisation may also request to revoke a certificate. However, such request must submit to OCBC Wing Hang RA for processing.

Following revocation, Digi-Sign posts the revoked certificate to the CRL. There is no obligation to inform the Subscriber of the reason for revocation.

4.4.3. Procedure for revocation request

Digi-Sign will revoke a certificate if:

- Digi-Sign has determined that it is necessary to do so; or
- OCBC Wing Hang has requested Digi-Sign to do so.

(a) Revocation as determined by Digi-Sign

Digi-Sign may decide to revoke a certificate in certain circumstances including, but not limited to, when:

- (1) It is required to revoke the certificate by regulations, or by law;
- (2) It is determined that the certificate
 - was issued improperly, or was not issued in accordance with this CP
 - includes incorrect or untrue information;
- (3) It is determined that the authorized user nominated by the Subscriber:
 - has passed away
 - has become an undischarged bankrupt, or has entered into a composition or scheme of arrangement, or a voluntary arrangement within the meaning of the Bankruptcy Ordinance (Cap. 6)
 - has been convicted in Hong Kong or elsewhere of an offence for which the Subscriber has been found to have acted fraudulently, corruptly, or dishonestly, or committed an offence under the Electronic Transactions Ordinance (Cap. 553)
- (4) It is established, or it is reasonable to suspect, that:



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

- the private key of a Subscriber has been compromised;
 - the Subscriber is not using the private key or certificate in accordance with this CP;
 - the Subscriber has failed to meet the Subscriber obligations set out in this CP;
- (5) It is established that:
- the Subscriber organisation is in liquidation, or a winding up order relating to the Subscriber has been made by any court of competent jurisdiction;
 - a receiver or administrator has been appointed over any part of the Subscriber company's assets;
 - a director, or public officer of the Subscriber company has been convicted of an offence under the Electronic Transactions Ordinance (Cap. 553).

The decision of Digi-Sign on revocation of a certificate will be final, conclusive and binding on all parties. Subscribers and the relying parties should take note of the period between the processing of a revocation request and updating of the Digi-Sign CRL as set out in the following paragraphs. Digi-Sign shall not be liable for loss or damage suffered by the Subscriber or any third party as a result or consequence of the revocation of a certificate by Digi-Sign (save and except loss or damage suffered directly by OCBC Wing Hang out of or in connection with the negligence or default of Digi-Sign which loss or damage shall be subject to and limited by the Liability Cap of HK\$200,000 in respect of one certificate and irrespective of the number of transactions involved in that one certificate).

(b) Revocation at request of OCBC Wing Hang

OCBC Wing Hang may at any time apply to Digi-Sign to revoke a certificate. However, OCBC Wing Hang must promptly apply to Digi-Sign to revoke the certificate if it is advised by the relevant Subscriber of the following:

- (1) Loss of the private key
- (2) Compromise or suspected compromise of the private key
- (3) Failure of the protection of the private key, or suspected failure of the protection
- (4) It is determined that the authorized user nominated by the Subscriber:
 - has passed away
 - has become an undischarged bankrupt, or has entered into a composition or scheme of arrangement, or a voluntary arrangement within the meaning of the Bankruptcy Ordinance (Cap. 6)
 - has been convicted in Hong Kong or elsewhere of an offence for which the Subscriber has been found to have acted fraudulently, corruptly, or dishonestly, or committed an offence under the Electronic Transactions Ordinance (Cap. 553)
 - has left the organisation



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

A request to revoke a certificate must be in the pre-defined format and it must be delivered by OCBC Wing Hang to Digi-Sign through an agreed channel between OCBC Wing Hang and Digi-Sign. Digi-Sign does not process requests by OCBC Wing Hang to revoke a certificate via telephone.

However, OCBC Wing Hang may in an emergency situation notify Digi-Sign of its intention to revoke a certificate by sending the revocation request to Digi-Sign by fax or email on a prescribed form. Upon receipt of such faxed-in or email notification, Digi-Sign will temporarily suspend the relevant certificate, but will not proceed to revoke the certificate. OCBC Wing Hang then will send its revocation request on the agreed channel in the prescribed format to Digi-Sign's office within 2 working days after the faxed-in or email notification. Digi-Sign will revoke the certificate in accordance with section 4.4 upon receipt of the revocation request. If Digi-Sign fails to receive the revocation request within 2 working days after receiving the faxed-in or email notification, Digi-Sign will cancel the suspension and reactivate the certificate. Digi-Sign will use its best endeavours to suspend the certificate within 8 hours from the receipt of the faxed-in or email notification. If OCBC Wing Hang or the Subscriber needs assistance, they may call the Digi-Sign hotline specified in section 1.4.1 of the CPS.

The times to receive faxed-in or email notifications are:

Monday to Friday (except public holidays): 8:30am to 6:00pm

(Except office closed due to tropical cyclone or black rainstorm warning signal as specified in section 1.4 of the CPS.)

Any faxed-in or email notification received outside these hours will be considered to have been received by Digi-Sign at the beginning of the next working day and processed accordingly.

Digi-Sign will keep records of the time and date of receipt of a revocation request, and endeavour to process the revocation before the end of the next working day of its receipt at the Digi-Sign Office. Processing of the request will include checking of the OCBC Wing Hang's authorised signature in the revocation request.

Once the validity of the revocation request is established, Digi-Sign will initiate action in its trustworthy system to revoke the certificate, and update the CRL. Digi-Sign will process certificate revocation requests during the office hours as specified in section 1.4 of the CPS.

Whenever it is necessary to notify Digi-Sign of a certificate revocation request outside the above business hours, or on any day when the Digi-Sign Office is closed for business, OCBC Wing Hang should call the Emergency Telephone No. in section 1.4 of the CPS herein to make arrangement.

(c) For all revocation of certificate

The Digi-Sign trustworthy system will update the Digi-Sign CRL promptly upon the processing of revocation of a certificate in the system. Digi-Sign will further issue a notice of revocation to OCBC Wing Hang, and this will be done within two working days of the update of the revocation to the CRL.



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

- 4.4.4. **Revocation request grace period**
Revocation requests are verified on receipt and are actioned within 24 hours.
- 4.4.5. **Circumstances for suspension**
Suspension not supported.
- 4.4.6. **Who can request suspension**
Suspension not supported.
- 4.4.7. **Procedure for suspension request**
Suspension not supported.
- 4.4.8. **Limits on suspension period**
Suspension not supported.
- 4.4.9. **CRL issuance frequency**
Digi-Sign undertakes to issue the CRL daily.
- 4.4.10. **Certificate status checking requirements**
Refer to CPS.
- 4.4.11. **On-line revocation/status checking availability**
Not applicable.
- 4.4.12. **On-line revocation checking requirements**
Not applicable.
- 4.4.13. **Other forms of revocation advertisements available**
Not applicable.
- 4.4.14. **Checking requirements for other forms of revocation advertisements**
Not applicable.
- 4.4.15. **Special requirements re key compromise**
Not applicable.



4.5. Security Audit Procedures

Refer to CPS.

4.6. Records Archival

Refer to CPS

4.7. Key Changeover

Refer to CPS

4.8. Compromise and Disaster Recovery

Refer to CPS.

4.9. CA Termination

Refer to CPS.

Also refer to the termination clause in the *Digi-Sign Premium Certificate Service Agreement*.



5. PHYSICAL, PROCEDURAL AND PERSONNEL SECURITY CONTROLS

Section 5: Physical, Procedural and Personnel Security Controls: This section describes the three main areas of non-technical security controls (that is, physical, procedural, and personnel controls) used by Digi-Sign to perform securely the functions of key generation, subject authentication, certificate issuance, certificate revocation, audit, and archival.

These details are all contained in the Digi-Sign “General Purpose” CPS and are common across all Digi-Sign CA hierarchies (including recognized and general purpose) and certificate types.

5.1. Physical Security Controls

Refer to CPS.

5.2. Procedural Controls

Refer to CPS.

5.3. Personnel Security Controls

Refer to CPS.



6. TECHNICAL SECURITY CONTROLS

Section 6: Technical Security Controls: This section defines the security measures taken by the issuing CA to protect its cryptographic keys and activation data (e.g., PINs, passwords, or manually-held key shares). Section 6 imposes constraints on Digi-Sign and Subscribers to protect their cryptographic keys and critical security parameters. Secure key management is critical to ensure that all secret and private keys and activation data are protected and used only by authorized personnel. Section 3 also describes other technical security controls used to perform securely the functions of key generation, user authentication, certificate registration, certificate revocation, audit, and archival. Technical controls include life-cycle security controls (including software development environment security, trusted software development methodology) and operational security controls.

6.1. Key Pair Generation and Installation

6.1.1. Key pair generation

Key pairs for CAs, RAs and OCBC Wing Hang's Registered Users must be generated in a manner that ensures the private key is known only to the authorized user of the key pair.

The key generation of Digi-Sign CAs and RAs follows the procedures stated in the CPS.

Keys for Registered Users are generated by Digi-Sign upon receipt and approval of a request from OCBC Wing Hang RA. The keys are generated within the Digi-Sign premises, using the RSA algorithm on the Digi-Sign trustworthy system.

6.1.2. Private Key delivery to entity

The private keys are directly delivered to OCBC Wing Hang from Digi-Sign as follows:

- Digi-Sign copies the private keys and the corresponding certificate generated onto secure tokens contained in secure packets. Digi-Sign will then deliver to OCBC Wing Hang the secure tokens together with the pre-formatted Dispatch Control List requesting OCBC Wing Hang to confirm the receipt of the secure tokens. The Dispatch Control List will display the list of keys delivered. OCBC Wing Hang will return the Dispatch Control List (signed by an authorized delegate of OCBC Wing Hang and stamped with the company chop) within 5 working days. The signed Dispatch Control List serves as an acceptance of the keys received by OCBC Wing Hang.
- Digi-Sign prints the activation data, for the private keys just delivered to OCBC Wing Hang, onto the PIN Mailers. The PIN Mailers are then dispatched to the relevant staff designated by OCBC Wing Hang, with an acknowledgement letter requesting the relevant staff to confirm the receipt of the PIN Mailers by OCBC Wing Hang.

6.1.3. Public Key delivery to certificate issuer

Not applicable as keys are centrally generated by Digi-Sign.



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

- 6.1.4. CA Public Key delivery to users
Refer to CPS.
- 6.1.5. Key sizes
The Digi-Sign CA key length is 2048 bits. Subscriber keys are 2048 bits too.
- 6.1.6. Public Key parameters generation
Not applicable.
- 6.1.7. Parameter quality checking
Not applicable.
- 6.1.8. Hardware/software key generation
Subscriber keys issued under this CP are generated using the RSA algorithm in software.
- 6.1.9. Key usage purposes
Subscriber keys issued under this CP may be used for Digital Signature, Non-Repudiation and Key Encipherment, as indicated in the key usage extension of the X.509 certificate.
- 6.2. Private Key Protection**
- 6.2.1. Standards for cryptographic module
Refer to CPS.
- 6.2.2. Private key (n out of m) multi-person control
Subscriber private keys must not be made subject to multi-person control.
- 6.2.3. Private key escrow
Currently, no Subscriber key escrow service is provided.
- 6.2.4. Private key backup
Refer to CPS.
- 6.2.5. Private key archival
Refer to CPS.



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

6.2.6. Private key entry into cryptographic module

Refer to CPS.

6.2.7. Method of activating private key

Subscriber keys are activated using memorised activation data, i.e. the Subscriber's passphrase, or PIN. Activation of a Subscriber private key by anyone other than the authorized Subscriber is forbidden.

6.2.8. Method of deactivating private key

Upon termination of the CA application using the private key, the system will automatically deactivate the CA private key.

The deactivation of Subscriber key is of the responsibility of the application involved.

6.2.9. Method of destroying private key

Refer to CPS.

6.3. Other Aspects of Key Pair Management

6.3.1. Public key archival

All public keys, including Subscriber public keys in cases of centralized generation, are archived by the certifying Digi-Sign CA.

6.3.2. Usage periods for the public and private keys

Key Pair(s)	Usage Period
Subscriber keys (utilizing a single key for authentication and confidentiality)	3 years
RA confidentiality keys	3 years
RA authentication keys	3 years
CA confidentiality keys	10 / 20 years
CA authentication keys	10 / 20 years



6.4. Activation Data

6.4.1. Activation data generation and installation

PINs will be generated centrally by Digi-Sign. These PINs will be encrypted and stored in the Digi-Sign database. The encrypted PINs are then decrypted, printed onto the PIN Mailer and securely distributed. After key generation, the encrypted PINs stored in Digi-Sign's database will be deleted.

6.4.2. Activation data protection

Subscribers must protect their passphrases, or PINs by memorizing them instead of writing them down and never disclosing them to other individuals. Subscribers are obliged to accord the same level of care and protection to activation data as to the private keys themselves.

6.5. Computer Security Controls

Refer to CPS.

6.6. Life Cycle Technical Controls

Refer to CPS.

6.7. Network Security Controls

Refer to CPS.

6.8. Cryptographic Module Engineering Controls

Refer to CPS.



7. CERTIFICATE AND CRL PROFILES

Section 7: Certificate and CRL Profiles: This section specifies the certificate format and the CRL format.

7.1. Certificate Profile

This section describes the general content and format of Digi-Sign certificates for OCBC Wing Hang's Registered Users.

7.1.1. Version number(s)

These are X.509 version 3 certificates. This is indicated by the presence of a "V3" in the version field.

7.1.2. Certificate extensions

Extension	Used / Not Used
Authority Key Identifier: Issuer	Not used.
Authority Key Identifier: Serial Number	Not used.
Authority Key Identifier: Public Key Identifier	Set as the Subject Key Identifier of the CA certificate used to sign this certificate.
Basic Constraints: Subject Type	End Entity
Basic Constraints: Path Length	None
Key Usage	Digital Signature, Non-Repudiation, Key Encipherment
Subject Alternative Name: DNSName	Not used.
Subject Alternative Name: RFC822	E-mail address as provided by Subscriber.
Netscape Certificate Type	SSL Client, S/MIME
Netscape SSL Server Name	Not used.
Netscape Comment	Not used.

7.1.3. Algorithm object identifiers

Encryption Algorithm: RSA



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

Hash Function: SHA-1.

7.1.4. Name forms

ELEMENT	X.521 ATTRIBUTE TYPE	VALUE	
		Issuer	Subject
Country	CountryName	HK	HK or MO
Organisation	OrganizationName	DIGI-SIGN CERTIFICATION SERVICES LIMITED	OCBC WING HANG BANK LIMITED
Organisational Unit	OrganizationalUnitName	BRN 31346952-000	1. Name of Corporate Customer 2. OCBC Wing Hang's Reference
Common Name	CommonName	GENERAL PURPOSE SIGNING CA CERT 1 Or GENERAL PURPOSE SIGNING CA CERT 2	Name of Authorized User

7.1.5. Name constraints

This extension is not used.

7.1.6. Certificate policy object identifier

This extension is not used.

7.1.7. Usage of policy constraints extension

The policy constraints extension is not used.

7.1.8. Policy qualifiers syntax and semantics



DIGI-SIGN OCBC WING HANG BANK LIMITED CERTIFICATE POLICY (CP)

FIELD (SYNTAX)	Used/Not Used
CP OID	Not used
Qualifier (CPS URI)	Not used
Qualifier (User Notice – Explicit Text)	Not Used

7.1.9. Processing semantics for the critical certificate policy extension
Not applicable.

7.2. CRL Profile

Standard CRL profile, as per CPS.



8. SPECIFICATION ADMINISTRATION

Section 8: Specification Administration: This section specifies how this CP is maintained.

Refer to the relevant section in CPS for the CPS administration.

8.1. Specification Change Procedures

Changes that do not materially affect the Registered Users of Digi-Sign “General Purpose” certificates may be made at the discretion of the Digi-Sign Chief Executive Officer and:

- do not require notice to be given to any subordinate CA or RA, Subscriber or relying party
- do require updating of the version number and date of publication.

Changes that do not materially affect the Registered Users include editorial corrections, typographical corrections, changes to contact details and any other change deemed by the Digi-Sign Chief Executive Officer to have no effect on the level of assurance or acceptability of related certificates.

Changes that do materially affect the Registered Users of Digi-Sign “General Purpose” certificates may be made if and only if Digi-Sign PAA and OCBC Wing Hang have agreed in writing to such changes and:

- do require notice to be given to any subordinate CA or RA, Subscriber or relying party
- do require updating of the version number and date of publication.

Changes that materially affect users include any change deemed to affect the level of assurance or acceptability of related certificates. Material changes require the consent of the Digi-Sign PAA.

8.2. Publication and Notification Policies

8.2.1. CP Publication and Notification

There will not be any formal CP notification process. Rather, notification will follow a “pull” model, requiring interested parties to monitor the CP document when they feel the need to do so, and retrieve amendments when they occur.

8.3. CPS / CP Approval Procedures

The Digi-Sign PAA determines whether or not the Digi-Sign “General Purpose” CPS provides suitable support for associated CPs, including this OCBC Wing Hang CP.