BANQUE DE FRANCE
EUROSYSTÈME

**Information security**

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# Certificate profiles, OCSP, CRL and ARL Trust chain of the Banque de France PKI Production environment

| | | | | | |
|---|---|---|---|---|---|
| ***Date*** | ***:*** | August 17, 2023 | ***Version*** | ***:*** | 1.3 |
| ***Author*** | ***:*** | RSI | ***Number of pages*** | ***:*** | **54** |
| ***Classification*** | ***:*** | Public | | | |

## List of versions

| Version | Date | Author | Modification |
|---|---|---|---|
| 1.0 | 16/06/2020 | RT - RSI | Initial version |
| 1.1 | 18/08/2020 | RT - RSI | Minor updates |
| 1.2 | 20/02/2022 | RT - RSI | - New certificate profile Authentification Forte Machine (DC)<br>- Certificate validity period for certificate profiles issued by the “Banque de France AC v3 ID Forte” |
| 1.3 | 17/08/2023 | RSI | Minor updates |

## Document validation

Validated by the Certification Policy Approval Committee of the Banque de France.

## Reference documents

| Document | Version | OID |
|---|---|---|
| Certification Policy « **Banque de France AC v3 Racine** » Certification Authority | 1.0 | **1.2.250.1.115.200.3.1.1.1.1** |
| Certification Policy « **Banque de France AC v3 ID** » Certification Authority | 1.2 | **1.2.250.1.115.200.3.1.1.2.1** |
| Certification Policy « **Banque de France AC v3 ID Forte** » Certification Authority | 1.2 | **1.2.250.1.115.200.3.1.1.4.1** |
| Certification Policy « **Banque de France AC v3 Chiffrement** » Certification Authority | 1.2 | **1.2.250.1.115.200.3.1.1.3.1** |

# Table of contents

# 1 Introduction

This document presents the profiles of certificate profiles issued by the Certification Authorities of The Banque de France PKI (Production environment) according to security levels and uses. It also presents the OCSP and CRL/ARL profiles.

The following diagram describes the hierarchy of Certificate Authorities for the production environment.


# 2 Certificate profiles

## 2.1 Certificate profiles of Certificate Authorities

### 2.1.1 The root Certificate Authority of the Banque de France PKI

Certificate of the root Certificate Authority of the Banque de France PKI

This CA is a self-signed CA issuing certificates exclusively to Banque de France Certificate Authorities called :

- Intermediate CAs: CA issuing certificates for Issuing CAs
- Issuing CAs: CA issuing certificates for end-entities (Natural persons, legal entities, application services)

The *Organizationidentifier* field *(2.5.4.97)* uses the ANSSI nomenclature (**NTRFR**) followed by the Banque de France SIREN number: **NTRFR-572104891**

The *OrganizationUnitName* field uses the RGSv2 requirements by specifying the ICD identifier for France (0002) followed by the Banque de France SIREN number: **0002 572104891**

The value of these two fields is the same for the Root CA as well as the Intermediate / Issuing CAs.

Column "C" indicates whether the field is critical (Y) or not (N).

| Banque de France AC v3 Racine | | |
|---|---|---|
| *Fiel* | *C* | *Value* |
| ***Version*** | | V3 |
| ***SerialNumber*** | | Issued by the CA |
| ***KeySize*** | | 4096 bits (RSA) |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| Signature Value | | Issued by the CA |
| ***Validity*** | | 20 years |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 20 years |
| ***SubjectPublicKeyInfo*** | | The public key with a length of 4096 bits (RSA) |
| ***Issuer*** | | |
| OrganizationIdentifier | | NTRFR-572104891 |
| CommonName | | Banque de France AC v3 Racine |
| OrganizationUnitName | | 0002 572104891 |

| Banque de France AC v3 Racine | | |
|---|---|---|
| OrganisationName | | Banque de France |
| CountryName | | FR |
| ***Subject*** | | |
| OrganizationIdentifier | | NTRFR-572104891 |
| CommonName | | Banque de France AC v3 Racine |
| OrganizationUnitName | | 0002 572104891 |
| OrganizationName | | Banque de France |
| CountryName | | FR |
| Extensions | | |
| ***KeyUsage*** | ***Y*** | |
| keyCertSign | | Set |
| crlSigning | | Set |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the CA "Banque de France AC v3 Racine" Public Key |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the CA "Banque de France AC v3 Racine" Public Key |
| ***BasicConstraints*** | ***Y*** | |
| CA | | True |
| pathLenConstraint | | None |

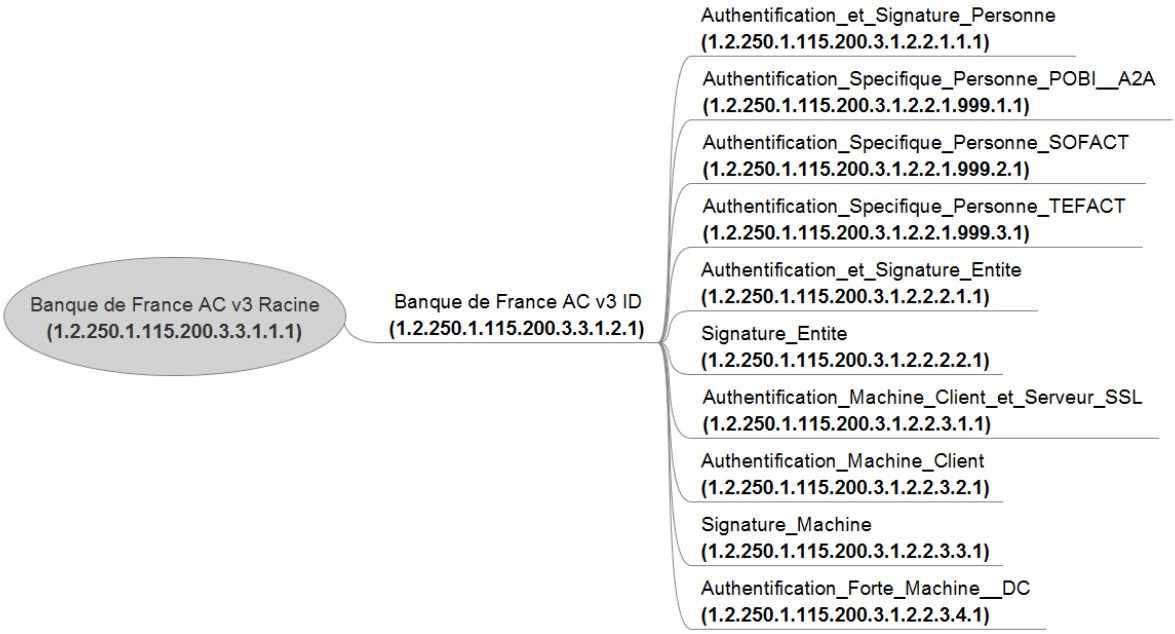
### 2.1.2 Banque de France AC v3 ID

Certificate Authority issuing Authentication and Signature software Certificates. It is signed by the root CA "Banque de France AC v3 Racine".

| Banque de France AC v3 ID | | |
|---|---|---|
| *Field* | *C* | *Value* |
| ***Version*** | | V3 |
| ***SerialNumber*** | | Issued by the CA |
| ***KeySize*** | | 4096 bits (RSA) |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| Signature Value | | Issued by the CA |
| ***Validity*** | | 20 years |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 20 years |
| ***SubjectPublicKeyInfo*** | | The public key with a length of 4096 bits (RSA) |
| ***Issuer*** | | |
| OrganizationIdentifier | | NTRFR-572104891 |
| CommonName | | Banque de France AC v3 Racine |
| OrganizationUnitName | | 0002 572104891 |
| OrganisationName | | Banque de France |
| CountryName | | FR |
| ***Subject*** | | |
| OrganizationIdentifier | | NTRFR-572104891 |
| CommonName | | Banque de France AC v3 ID |
| OrganizationUnitName | | 0002 572104891 |
| OrganizationName | | Banque de France |
| CountryName | | FR |
| Extensions | | |

| Banque de France AC v3 ID | | |
|---|---|---|
| ***KeyUsage*** | ***Y*** | |
| keyCertSign | | Set |
| crlSigning | | Set |
| ***Certificate Policies*** | ***N*** | |
| PolicyIdentifier | | 2.5.29.32.0 (anyPolicy) |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | • http://crl.igcv3.certificats.banque-france.fr/racine-1.2.250.1.115.200.3.4.1.1.1.crl<br>• http://crl.igcv3.certificats.banque-france.org/racine-1.2.250.1.115.200.3.4.1.1.1.crl<br>• ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20Racine,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint<br>• ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20Racine,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | AIA OCSP<br>• http://ocsp.igcv3.certificats.banque-france.fr/racine-1.2.250.1.115.200.3.5.1.1.1<br>• http://ocsp.igcv3.certificats.banque-france.org/racine-1.2.250.1.115.200.3.5.1.1.1<br>AIA calssuer<br>• http://cert.igcv3.certificats.banque-france.fr/racine-1.2.250.1.115.200.3.3.1.1.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the “Banque de France AC v3 Racine” CA public key |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the “Banque de France AC v3 ID” CA public key |
| ***BasicConstraints*** | ***Y*** | |
| CA | | True |
| pathLenConstraint | | 0 |

Below is a diagram that describes the certificate profiles issued by this CA.



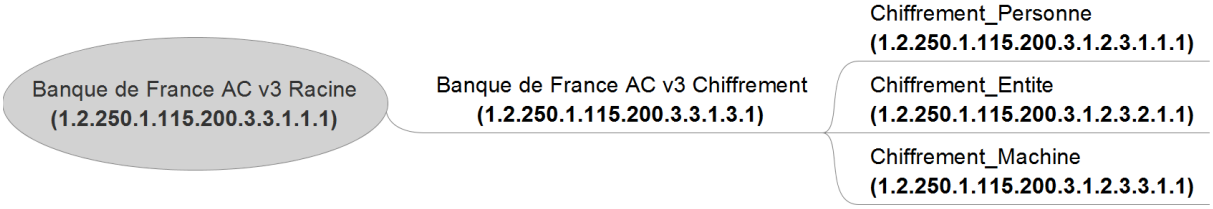

### 2.1.3 Banque de France AC v3 Chiffrement

Certificate Authority issuing encryption software certificates. It is signed by the root CA Banque de France AC v3 Racine.

| Banque de France AC v3 Chiffrement | | |
|---|---|---|
| *Field* | *C* | *Value* |
| ***Version*** | | V3 |
| ***SerialNumber*** | | Issued by the CA |
| ***KeySize*** | | 4096 bits (RSA) |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| Signature Value | | Issued by the CA |
| ***Validity*** | | 20 years |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 20 years |
| ***SubjectPublicKeyInfo*** | | The public key with a length of 4096 bits (RSA) |
| ***Issuer*** | | |
| OrganizationIdentifier | | NTRFR-572104891 |
| CommonName | | Banque de France AC v3 Racine |
| OrganizationUnitName | | 0002 572104891 |
| OrganisationName | | Banque de France |
| CountryName | | FR |
| ***Subject*** | | |
| OrganizationIdentifier | | NTRFR-572104891 |
| CommonName | | Banque de France AC v3 Chiffrement |
| OrganizationUnitName | | 0002 572104891 |
| OrganizationName | | Banque de France |
| CountryName | | FR |
| Extensions | | |
| ***KeyUsage*** | ***Y*** | |
| keyCertSign | | Set |
| crlSigning | | Set |
| ***Certificate Policies*** | ***N*** | |

| Banque de France AC v3 Chiffrement | | |
|---|---|---|
| PolicyIdentifier | | 2.5.29.32.0 (anyPolicy) |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | • http://crl.igcv3.certificats.banque-france.fr/racine-1.2.250.1.115.200.3.4.1.1.1.crl<br>• http://crl.igcv3.certificats.banque-france.org/racine-1.2.250.1.115.200.3.4.1.1.1.crl<br>• ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20Racine,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint<br>• ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20Racine,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | AIA OCSP<br>• http://ocsp.igcv3.certificats.banque-france.fr/racine-1.2.250.1.115.200.3.5.1.1.1<br>• http://ocsp.igcv3.certificats.banque-france.org/racine-1.2.250.1.115.200.3.5.1.1.1<br>AIA caIssuer<br>• http://cert.igcv3.certificats.banque-france.fr/racine-1.2.250.1.115.200.3.3.1.1.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the “Banque de France AC v3 Racine” CA public key |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the “Banque de France AC v3 Chiffrement” CA public key |
| ***BasicConstraints*** | ***Y*** | |
| CA | | True |
| pathLenConstraint | | 0 |

Below is a diagram that describes the certificate profiles issued by this CA.



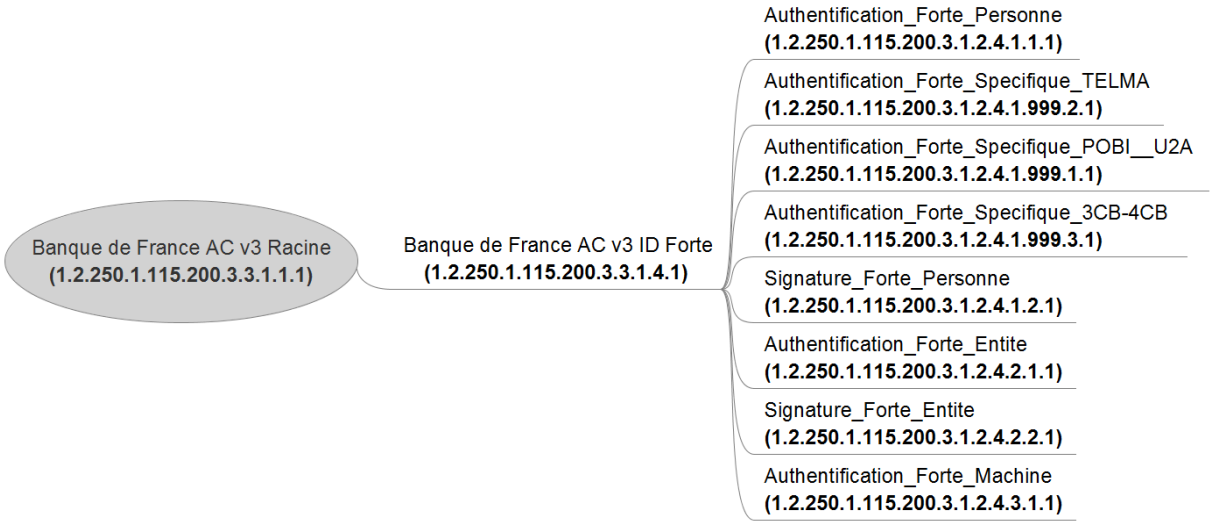

### 2.1.4 Banque de France AC v3 ID Forte

Certificate Authority issuing hardware Authentication or Signature Certificates. It is signed by the root CA “Banque de France AC v3 Racine”.

| Banque de France AC v3 ID Forte | | |
|---|---|---|
| *Field* | *C* | *Value* |
| ***Version*** | | V3 |
| ***SerialNumber*** | | Issued by the CA |
| ***KeySize*** | | 4096 bits (RSA) |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| Signature Value | | Issued by the CA |
| ***Validity*** | | 20 years |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 20 years |
| ***SubjectPublicKeyInfo*** | | The public key with a length of 4096 bits (RSA) |
| ***Issuer*** | | |
| OrganizationIdentifier | | NTRFR-572104891 |
| CommonName | | Banque de France AC v3 Racine |
| OrganizationUnitName | | 0002 572104891 |
| OrganisationName | | Banque de France |
| CountryName | | FR |
| ***Subject*** | | |
| OrganizationIdentifier | | NTRFR-572104891 |
| CommonName | | Banque de France AC v3 ID Forte |
| OrganizationUnitName | | 0002 572104891 |
| OrganizationName | | Banque de France |
| CountryName | | FR |
| Extensions | | |
| ***KeyUsage*** | ***Y*** | |
| keyCertSign | | Set |
| crlSigning | | Set |
| ***Certificate Policies*** | ***N*** | |
| PolicyIdentifier | | 2.5.29.32.0 (anyPolicy) |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | • http://crl.igcv3.certificats.banque-france.fr/racine-1.2.250.1.115.200.3.4.1.1.1.crl<br>• http://crl.igcv3.certificats.banque-france.org/racine-1.2.250.1.115.200.3.4.1.1.1.crl<br>• ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20Racine,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint<br>• ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20Racine,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | AIA OCSP |

| Banque de France AC v3 ID Forte | | |
|---|---|---|
| | | • http://ocsp.igcv3.certificats.banque-france.fr/racine-1.2.250.1.115.200.3.5.1.1.1<br>• http://ocsp.igcv3.certificats.banque-france.org/racine-1.2.250.1.115.200.3.5.1.1.1<br>AIA caIssuer<br>• http://cert.igcv3.certificats.banque-france.fr/racine-1.2.250.1.115.200.3.3.1.1.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the "Banque de France AC v3 Racine" CA public key |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the "Banque de France AC v3 ID Forte" CA public key |
| ***BasicConstraints*** | ***Y*** | |
| CA | | True |
| pathLenConstraint | | 0 |

Below is a diagram that describes the certificate profiles of this CA.



## 2.2 Certificate profiles issued by the CA Banque de France AC v3 ID

This chapter describes all certificate profiles issued by the CA Banque de France AC v3 ID

This chapter is divided into 3 sub-sections:

- Certificate profiles related to a natural person;
- Certificate profiles related to an Entity-type application service;
- Certificate profiles related to a Machine-type application service.

### 2.2.1 Certificate profile related to a natural person

#### *2.2.1.1 Authentification et Signature Personne*

Authentication and signature software certificate.

| LCP | | |
|---|---|---|
| **Field** | **C** | **Value** |
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |
| organizationIdentifier | | Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4 |
| | | In France, this registration number may also be composed of the prefix "NTRFR-" followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| serialNumber | | Complementary element to distinguish homonyms: SHA-1 hash value of the holder's unique number within the PKI |
| commonName | | The full name of the holder as it should be displayed by applications. The holder's first name in use, followed by a space, followed by the holder's last name in use. |
| organizationUnitName | | In accordance to Annex 2, section VII.1 de [RGS_v2_A4], this field must be present and contain the identification of the entity to which the holder belongs:<br><br>- the ICD is on 4 characters; (0002 for France)<br>- organization identification on 35 characters<br>- the separator between the two chains is a space.<br><br>If the ICD number is equal to 0002, it should be followed by a SIREN or SIRET number since it refers to an organisation registered in France |
| organizationName | | Full official name of the entity to which the holder belongs as registered by the competent authorities |

| | | |
|---|---|---|
| countryName | | Requester's country of residence |
| ***Validity*** | | 3 years |
| NotBefore | | Date of bi-key generation |
| NotAfter | | Date of bi-key generation + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | nonRepudiation, digitalSignature |
| ***ExtendedKeyUsage*** | ***N*** | emailProtection (1.3.6.1.5.5.7.3.4), clientAuth (1.3.6.1.5.5.7.3.2) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.2.1.1.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP 1 | | http://crl.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.4.1.2.1.crl |
| CRLDP 2 | | http://crl.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.4.1.2.1.crl |
| CRLDP 3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP 4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.5.1.2.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.5.1.2.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.3.1.2.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash of the Issuing CA public key (Banque de France AC v3 ID) |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name*** | ***N*** | |
| otherName (UPN) | | Holder's identifier 'User Principal Name' |

| | | |
|---|---|---|
| rfc822Name | | Holder's email address |

#### *2.2.1.2 Authentification Spécifique Personne POBI (A2A)*

Authentication software certificate, with specific fields used by a Banque de France specific application of the Banque de France

| **LCP** | | |
|---|---|---|
| Field | C | Value |
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |
| organizationIdentifier | | Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4.<br>In France, this registration number may also be composed of the prefix "NTRFR-" followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | The full name of the holder as it should be displayed by applications : Account number in the application |
| organizationUnitName | | Identification of the entity to which the holder belongs |
| organizationName | | Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Requester's country of residence |
| ***Validity*** | | **3 years** |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | DigitalSignature, KeyEncipherment, KeyAgreement |
| ***ExtendedKeyUsage*** | ***N*** | clientAuth (1.3.6.1.5.5.7.3.2) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.2.1.999.1.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.4.1.2.1.crl |

| | | |
|---|---|---|
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.4.1.2.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.5.1.2.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.5.1.2.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.3.1.2.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash of the Issuing CA public key (Banque de France AC v3 ID) |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name*** | ***N*** | |
| otherName (UPN) | | Holder's identifier 'User Principal Name' |
| rfc822Name | | Holder's email address |

#### *2.2.1.3 Authentification Spécifique Personne SOFACT*

Authentication software certificate, with specific fields used by a specific Banque de France application.

| **LCP** | | |
|---|---|---|
| Field | C | Value |
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |

| | | |
|---|---|---|
| ***Subject*** | | |
| organizationIdentifier | | Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4. In France, this registration number may also be composed of the prefix "NTRFR-" followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | The full name of the holder as it should be displayed by applications : Account number in the application |
| organizationUnitName | | Identification of the entity to which the holder belongs |
| organizationName | | Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Requester's country of residence |
| ***Validity*** | | **3 years** |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| | | **Extensions Standard** |
| ***KeyUsage*** | ***Y*** | DigitalSignature, KeyEncipherment, KeyAgreement |
| ***ExtendedKeyUsage*** | ***N*** | clientAuth (1.3.6.1.5.5.7.3.2) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.2.1.999.2.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.4.1.2.1.crl |
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.4.1.2.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.5.1.2.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.5.1.2.1 |

| | | |
|---|---|---|
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.3.1.2.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key (Banque de France AC v3 ID) |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name*** | ***N*** | |
| otherName (UPN) | | Holder's identifier 'User Principal Name' |
| rfc822Name | | Holder's email address |

#### *2.2.1.4 Authentification Spécifique Personne TEFACT*

Authentication software certificate, with specific fields used by a specific Banque de France application

| **LCP** | | |
|---|---|---|
| Field | C | Value |
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |
| serialNumber | | Account number in the application |
| organizationIdentifier | | Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4. In France, this registration number may also be composed of the prefix "NTRFR-" followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | Account number in the application |
| organizationUnitName | | Identification of the entity to which the holder belongs |
| organizationName | | Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Requester's country of residence |
| ***Validity*** | | 3 years |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |

| | | |
|---|---|---|
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | DigitalSignature, KeyEncipherment, KeyAgreement |
| ***ExtendedKeyUsage*** | ***N*** | clientAuth (1.3.6.1.5.5.7.3.2) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.2.1.999.3.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.4.1.2.1.crl |
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.4.1.2.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.5.1.2.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.5.1.2.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.3.1.2.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key (Banque de France AC v3 ID) |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name*** | ***N*** | |
| otherName (UPN) | | Holder's identifier 'User Principal Name' |
| rfc822Name | | Holder's email address |

### 2.2.2 Certificate profile related to an Entity application service

#### *2.2.2.1 Authentification et Signature Entité*

Authentication and signature software certificate for an entity.

| LCP | | |
|---|---|---|
| Field | C | Value |
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | DN of the Issuing CA |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |
| organizationIdentifier | | Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4. In France, this registration number may also be composed of the prefix "NTRFR-" followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | Significant name of the service implementing the certificate for an Entity. |
| organizationUnitName2 | | Entity name |
| organizationUnitName | | In accordance to Annex 2, section VII.1 de [RGS_v2_A4], this field must be present and contain the identification of the entity to which the holder belongs:<br><br>- the ICD is on 4 characters; (0002 for France)<br>- organization identification on 35 characters<br>- the separator between the two chains is a space.<br><br>If the ICD number is equal to 0002, it must necessarily be followed by a SIREN or SIRET number since it refers to an organisation registered in France. |
| organizationName | | Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Country where the entity responsible for the certificate is registered |
| ***Validity*** | | 3 years |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | NonRepudiation, digitalSignature |
| ***ExtendedKeyUsage*** | ***N*** | emailProtection (1.3.6.1.5.5.7.3.4), clientAuth (1.3.6.1.5.5.7.3.2) |
| ***CertificatePolicies*** | ***N*** | |

| | | |
|---|---|---|
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.2.2.1.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.4.1.2.1.crl |
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.4.1.2.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.5.1.2.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.5.1.2.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.3.1.2.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name*** | ***N*** | |
| otherName (UPN) | | Entity's identifier 'User Principal Name' |
| rfc822Name | | Entity's email address |

#### *2.2.2.2 Signature Entité*

Software signature certificate for an entity.

| **LCP** | | |
|---|---|---|
| Field | C | Value |
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |

| | | |
|---|---|---|
| ***Issuer*** | | DN of the Issuing CA |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |
| organizationIdentifier | | Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4. In France, this registration number may also be composed of the prefix "NTRFR-" followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | Significant name of the service implementing the certificate for Entity |
| organizationUnitName2 | | Entity's name |
| organizationUnitName | | In accordance to Annex 2, section VII.1 de [RGS_v2_A4], this field must be present and contain the identification of the entity to which the holder belongs:<br><br>- the ICD is on 4 characters; (0002 for France)<br>- organization identification on 35 characters<br>- the separator between the two chains is a space.<br><br>If the ICD number is equal to 0002, it must necessarily be followed by a SIREN or SIRET number since it refers to an organisation registered in France |
| organizationName | | Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Country where the entity responsible for the certificate is registered |
| ***Validity*** | | **3 years** |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | nonRepudiation |
| ***ExtendedKeyUsage*** | ***N*** | emailProtection (1.3.6.1.5.5.7.3.4) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.2.2.2.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.4.1.2.1.crl |

| | | |
|---|---|---|
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.4.1.2.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.5.1.2.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.5.1.2.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.3.1.2.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name*** | ***N*** | |
| otherName (UPN) | | Entity's identifier 'User Principal Name' |
| rfc822Name | | Entity's email address |

### 2.2.3 Certificate profiles related to a machine-type application service

#### *2.2.3.1 Authentification Machine Client et Serveur SSL*

Server SSL Authentication certificate.

| **DVCP** | | |
|---|---|---|
| Field | C | Value |
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | DN of the Issuing CA |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |

| | | |
|---|---|---|
| ***Subject*** | | |
| organizationIdentifier | | This field is mandatory if the requester is a legal entity, optional otherwise.<br>Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4. In France, this registration number may also be composed of the prefix "NTRFR-" followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | Machine / Server common name |
| organizationUnitName2 | | Name of the application linked to the certificate |
| organizationUnitName | | This field is mandatory if the requester is a legal entity, optional otherwise.<br>In accordance to Annex 2, section VII.1 de [RGS_v2_A4], this field must be present and contain the identification of the entity to which the holder belongs:<br><br>- the ICD is on 4 characters; (0002 for France)<br>- organization identification on 35 characters<br>- the separator between the two chains is a space.<br><br>If the ICD number is equal to 0002, it must necessarily be followed by a SIREN or SIRET number since it refers to an organisation registered in France. |
| organizationName | | This field is mandatory if the requester is a legal entity, optional otherwise.<br>Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Requester's country of residence or country where the requester's is established |
| ***Validity*** | | **3 years** |
| NotBefore | | Date of certificate issuance |
| NotAfter | | Date of certificate issuance + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | digitalSignature, keyEncipherment, keyAgreement |
| ***ExtendedKeyUsage*** | ***N*** | serverAuth (1.3.6.1.5.5.7.3.1) , clientAuth (1.3.6.1.5.5.7.3.2) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.2.3.1.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.4.1.2.1.crl |
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.4.1.2.1.crl |

| | | |
|---|---|---|
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.5.1.2.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.5.1.2.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.3.1.2.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key (Banque de France AC v3 ID) |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name (SAN)*** | ***N*** | |
| otherName (UPN) | | (Optional) The server FQDN |
| dNSName | | One or more domain names managed by the person in charge of the certificate. This field is mandatory |
| iPAddress | | (Optional) One or more IP addresses managed by the person in charge of the certificate. |

#### *2.2.3.2 Authentification Machine Client*

Client SSL Authentication certificate.

| **DVCP** | | |
|---|---|---|
| Field | C | Value |
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | DN of the Issuing CA |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |

| | | |
|---|---|---|
| countryName | | FR |
| ***Subject*** | | |
| organizationIdentifier | | This field is mandatory if the requester is a legal entity, optional otherwise.<br>Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4. In France, this registration number may also be composed of the prefix "NTRFR-" followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | Machine / Server common name |
| organizationUnitName2 | | Name of the application linked to the certificate |
| organizationUnitName | | This field is mandatory if the requester is a legal entity, optional otherwise.<br>In accordance to Annex 2, section VII.1 de [RGS_v2_A4], this field must be present and contain the identification of the entity to which the holder belongs:<br><br>- the ICD is on 4 characters; (0002 for France)<br>- organization identification on 35 characters<br>- the separator between the two chains is a space.<br><br>If the ICD number is equal to 0002, it must necessarily be followed by a SIREN or SIRET number since it refers to an organisation registered in France. |
| organizationName | | This field is mandatory if the requester is a legal entity, optional otherwise.<br>Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Requester's country of residence or country where the requester's is established |
| ***Validity*** | | **3 years** |
| NotBefore | | Date of certificate issuance |
| NotAfter | | Date of certificate issuance + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | digitalSignature |
| ***ExtendedKeyUsage*** | ***N*** | clientAuth (1.3.6.1.5.5.7.3.2) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.2.3.2.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.4.1.2.1.crl |
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.4.1.2.1.crl |

| | | |
|---|---|---|
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.5.1.2.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.5.1.2.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.3.1.2.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name (SAN)*** | ***N*** | |
| otherName (UPN) | | (Optional) The machine/ server FQDN |
| rfc822Name | | (Optional) Main email address |
| rfc822Name | | (Optional) Secondary email address |

#### *2.2.3.3 Signature Machine*

Signature certificate for a machine.

| Field | C | Value |
|---|---|---|
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | DN of the Issuing CA |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |
| organizationIdentifier | | This field is mandatory if the requester is a legal entity, optional otherwise. |

| | | |
|---|---|---|
| | | Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4. In France, this registration number may also be composed of the prefix "NTRFR-" followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | Machine / Server common name |
| organizationUnitName2 | | Name of the application linked to the certificate |
| organizationUnitName | | This field is mandatory if the requester is a legal entity, optional otherwise.<br>In accordance to Annex 2, section VII.1 de [RGS_v2_A4], this field must be present and contain the identification of the entity to which the holder belongs:<br><br>- the ICD is on 4 characters; (0002 for France)<br>- organization identification on 35 characters<br>- the separator between the two chains is a space.<br><br>If the ICD number is equal to 0002, it must necessarily be followed by a SIREN or SIRET number since it refers to an organisation registered in France. |
| organizationName | | This field is mandatory if the requester is a legal entity, optional otherwise.<br>Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Requester's country of residence or country where the requester's is established |
| ***Validity*** | | **3 years** |
| NotBefore | | Date of certificate issuance |
| NotAfter | | Date of certificate issuance + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | nonRepudiation, digitalSignature |
| ***ExtendedKeyUsage*** | ***N*** | emailProtection (1.3.6.1.5.5.7.3.4) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.2.3.3.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.4.1.2.1.crl |
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.4.1.2.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR- |

| | | |
|---|---|---|
| | | 572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.5.1.2.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-1.2.250.1.115.200.3.5.1.2.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-1.2.250.1.115.200.3.3.1.2.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name (SAN)*** | ***N*** | |
| otherName (UPN) | | (Optional) The machine/ server FQDN |
| rfc822Name | | (Optional) Main email address |
| rfc822Name | | (Optional) Secondary email address |

## 2.3 Certificate profiles issued by the CA Banque de France AC v3 ID Forte.

This chapter describes all certificate profiles issued by the CA Banque de France AC v3 ID Forte.

This chapter is divided into 3 sub-sections:

- Certificate profiles related to a natural person,
- Certificate profiles related to an Entity-type application service,
- Certificate profiles related to an Machine-type application service.

### 2.3.1 Certificate profiles related to a natural person.

#### *2.3.1.1 Authentification Forte Personne*

Hardware certificate for authentication. These certificates are presented on a cryptographic module (NCP+).

| NCP+ | | |
|---|---|---|
| **Field** | **C** | **Value** |
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID Forte |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |
| organizationIdentifier | | Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4. In France, this registration number may also be composed of the prefix "NTRFR-" followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| serialNumber | | Complementary element to distinguish homonyms: SHA-1 hash value of the holder's unique number within the PKI |
| organizationUnitName | | In accordance to Annex 2, section VII.1 de [RGS_v2_A4], this field must be present and contain the identification of the entity to which the holder belongs:<br><br>- the ICD is on 4 characters; (0002 for France)<br>- organization identification on 35 characters<br>- the separator between the two chains is a space.<br><br>If the ICD number is equal to 0002, it must necessarily be followed by a SIREN or SIRET number since it refers to an organisation registered in France. |
| organizationName | | Full official name of the entity to which the holder belongs as registered by the competent authorities |
| commonName | | Full name of the holder as it should be displayed by applications. The holder's first name in use, followed by a |

| | | |
|---|---|---|
| | | space, followed by the holder's civil name or last name in use. |
| countryName | | Requester's country of residence |
| ***Validity*** | | **< 3 years** |
| NotBefore | | Date of bi-key generation |
| NotAfter | | Date of bi-key generation + 3 years maximum |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | digitalSignature |
| ***ExtendedKeyUsage*** | ***N*** | clientAuth (1.3.6.1.5.5.7.3.2) , SmartCardLogon (1.3.6.1.4.1.311.20.2.2) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.4.1.1.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.4.1.4.1.crl |
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.4.1.4.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.3.1.4.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key (Banque de France AC v3 ID Forte) |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name*** | ***N*** | |

| | | |
|---|---|---|
| otherName (UPN) | | Holder's identifier 'User Principal Name' |
| rfc822Name | | Holder's email address |

#### *2.3.1.2 Authentification Forte Personne TELMA*

Strong authentication with specific fields for a specific Banque de France application. These certificates are presented on a cryptographic module (NCP+).

| **NCP+** | | |
|---|---|---|
| **Field** | **C** | **Value** |
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID Forte |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |
| organizationIdentifier | | Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4. In France, this registration number may also be composed of the prefix "NTRFR-" followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | Full name of the holder as it should be displayed by applications: Account number in the application |
| organizationUnitName | | Identification of the entity to which the holder belongs |
| organizationName | | Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Requester's country of residence |
| ***Validity*** | | **3 years** |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | DigitalSignature, KeyEncipherment, KeyAgreement |
| ***ExtendedKeyUsage*** | ***N*** | clientAuth (1.3.6.1.5.5.7.3.2) , SmartCardLogon (1.3.6.1.4.1.311.20.2.2) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.4.1.999.2.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.4.1.4.1.crl |

| | | |
|---|---|---|
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.4.1.4.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.3.1.4.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key (Banque de France AC v3 ID Forte) |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name*** | ***N*** | |
| otherName (UPN) | | Holder's identifier 'User Principal Name' |
| rfc822Name | | Holder's email address |

#### *2.3.1.3 Authentification Forte Spécifique POBI (U2A)*

Strong authentication with specific fields for a specific Banque de France application. These certificates are presented on a cryptographic module (NCP+).

| **NCP+** | | |
|---|---|---|
| **Field** | **C** | **Value** |
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID Forte |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |

| | | |
|---|---|---|
| organizationIdentifier | | Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4. In France, this registration number may also be composed of the prefix "NTRFR-" followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | Full name of the holder as it should be displayed by applications : Account number in the application |
| organizationUnitName | | Identification of the entity to which the holder belongs |
| organizationName | | Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Requester's country of residence |
| ***Validity*** | | **3 years** |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | DigitalSignature, KeyEncipherment, KeyAgreement |
| ***ExtendedKeyUsage*** | ***N*** | clientAuth (1.3.6.1.5.5.7.3.2) , SmartCardLogon (1.3.6.1.4.1.311.20.2.2) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.4.1.999.1.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.4.1.4.1.crl |
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.4.1.4.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.3.1.4.1.cer |

| | | |
|---|---|---|
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key (Banque de France AC v3 ID Forte) |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name*** | ***N*** | |
| otherName (UPN) | | Holder's identifier 'User Principal Name' |
| rfc822Name | | Holder's email address |

#### *2.3.1.4 Authentification Forte Spécifique 3CB-4CB*

Strong authentication with specific fields for a specific Banque de France application. These certificates are presented on a cryptographic module (NCP+).

These certificates are for internal use only.

| **NCP+** | | |
|---|---|---|
| **Field** | **C** | **Value** |
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID Forte |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |
| E (Email) | | Internal fixed email address at The Banque de France |
| serialNumber | | Complementary element to distinguish homonyms: SHA-1 hash value of the holder's unique number within the PKI |
| organizationIdentifier | | Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4.<br>In France, this registration number may also be composed of the prefix "NTRFR-" followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | The full name of the holder as it should be displayed by applications. The holder's first name in use, followed by a space, followed by the holder's civil name or last name in use. |
| organizationUnitName | | Identification of the entity to which the holder belongs |
| organizationName | | Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Requester's country of residence |
| ***Validity*** | | **3 years** |
| NotBefore | | Date of keys generation |

| | | |
|---|---|---|
| NotAfter | | Date of keys generation + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | DigitalSignature, KeyEncipherment, KeyAgreement |
| ***ExtendedKeyUsage*** | ***N*** | clientAuth (1.3.6.1.5.5.7.3.2) , SmartCardLogon (1.3.6.1.4.1.311.20.2.2) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.4.1.999.3.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.4.1.4.1.crl |
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.4.1.4.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.3.1.4.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key (Banque de France AC v3 ID Forte) |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name*** | ***N*** | |
| otherName (UPN) | | Holder's identifier 'User Principal Name' |
| rfc822Name | | Holder's email address |

#### *2.3.1.5 Signature Forte Personne*

Signature certificate on material support. These certificates are presented on a cryptographic module (NCP+).

| NCP+ | | |
|---|---|---|
| **Field** | **C** | **Value** |
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID Forte |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |
| organizationIdentifier | | Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4.<br><br>In France, this registration number may also be composed of the prefix « NTRFR- » followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| serialNumber | | Complementary element to distinguish homonyms: SHA-1 hash value of the holder's unique number within the PKI |
| commonName | | The full name of the holder as it should be displayed by applications. The holder's first name in use, followed by a space, followed by the holder's civil name or last name in use. |
| organizationUnitName | | In accordance to Annex 2, section VII.1 de [RGS_v2_A4], this field must be present and contain the identification of the entity to which the holder belongs:<br><br>- The ICD is on 4 characters; (0002 for France)<br>- Organization identification on 35 characters<br>- The separator between the two chains is a space.<br><br>If the ICD number is equal to 0002, it must necessarily be followed by a SIREN or SIRET number since it refers to an organisation registered in France. |
| organizationName | | Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Requester's country of residence |
| ***Validity*** | | **< 3 years** |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 3 years maximum |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |

| | | |
|---|---|---|
| ***KeyUsage*** | ***Y*** | nonRepudiation |
| ***ExtendedKeyUsage*** | ***N*** | emailProtection (1.3.6.1.5.5.7.3.4) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.4.1.2.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.4.1.4.1.crl |
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.4.1.4.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.3.1.4.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key (Banque de France AC v3 ID Forte) |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name*** | ***N*** | |
| otherName (UPN) | | Holder's identifier 'User Principal Name' |
| rfc822Name | | Holder's email address |

### 2.3.2 Certificate profiles related to an entity-type application service

#### *2.3.2.1 Authentification Forte Entité*

Hardware authentication certificate for an entity. These certificates are presented on a cryptographic module (PCN+).

| NCP+ | | |
|---|---|---|
| **Field** | **C** | **Value** |
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | DN of the Issuing CA |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID Forte |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |
| organizationIdentifier | | Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4.<br><br>In France, this registration number may also be composed of the prefix « NTRFR- » followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | Significant name of the service implementing the certificate Entity |
| organizationUnitName2 | | Entity's name |
| organizationUnitName | | In accordance to Annex 2, section VII.1 de [RGS_v2_A4], this field must be present and contain the identification of the entity to which the holder belongs:<br><br>- The ICD is on 4 characters; (0002 for France)<br>- Organization identification on 35 characters<br>- The separator between the two chains is a space.<br><br>If the ICD number is equal to 0002, it must necessarily be followed by a SIREN or SIRET number since it refers to an organisation registered in France. |
| organizationName | | Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Country where the entity responsible for the certificate is registered |
| ***Validity*** | | **3 years** |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | digitalSignature |
| ***ExtendedKeyUsage*** | ***N*** | clientAuth (1.3.6.1.5.5.7.3.2),<br>SmartCardLogon (1.3.6.1.4.1.311.20.2.2) |
| ***CertificatePolicies*** | ***N*** | |

| | | |
|---|---|---|
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.4.2.1.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.4.1.4.1.crl |
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.4.1.4.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.3.1.4.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name*** | ***N*** | |
| otherName (UPN) | | Entity's identifier 'User Principal Name' |
| rfc822Name | | Entity's email address |

#### *2.3.2.2 Signature Forte Entité*

Hardware signature certificate for an entity. These certificates are presented on a cryptographic module (NCP+).

| **NCP+** | | |
|---|---|---|
| **Field** | **C** | **Value** |
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |

| | | |
|---|---|---|
| ***Issuer*** | | DN of the Issuing CA |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID Forte |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |
| organizationIdentifier | | Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4.<br><br>In France, this registration number may also be composed of the prefix « NTRFR-» followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | Significant name of the service implementing the certificate Entity |
| organizationUnitName2 | | Entity's name |
| organizationUnitName | | In accordance to Annex 2, section VII.1 de [RGS_v2_A4], this field must be present and contain the identification of the entity to which the holder belongs:<br><br>- The ICD is on 4 characters; (0002 for France)<br>- Organization identification on 35 characters<br>- The separator between the two chains is a space.<br><br>If the ICD number is equal to 0002, it must necessarily be followed by a SIREN or SIRET number since it refers to an organisation registered in France. |
| organizationName | | Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Country where the entity responsible for the certificate is registered |
| ***Validity*** | | **3 years** |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | nonRepudiation |
| ***ExtendedKeyUsage*** | ***N*** | emailProtection (1.3.6.1.5.5.7.3.4) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.4.2.2.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.4.1.4.1.crl |

| | | |
|---|---|---|
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.4.1.4.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.3.1.4.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name*** | ***N*** | |
| otherName (UPN) | | Entity's identifier 'User Principal Name' |
| rfc822Name | | Entity's email address |

### 2.3.3 Certificate profiles related to a machine-type application service

#### *2.3.3.1 Authentification Forte Machine*

Certificate profiles complying with ETSI EN 319 411-1. These certificates are available on an SSCD cryptographic module.

| Field | C | Value |
|---|---|---|
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | **DN of the Issuing CA** |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID Forte |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |

| | | |
|---|---|---|
| ***Subject*** | | |
| organizationIdentifier | | This field is mandatory if the requester is a legal entity, optional otherwise.<br><br>Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4.<br><br>In France, this registration number may also be composed of the prefix « NTRFR- » followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | Machine / Server common name. |
| organizationUnitName2 | | Name of the application linked to the certificate |
| organizationUnitName | | This field is mandatory if the requester is a legal entity, optional otherwise.<br><br>In accordance to Annex 2, section VII.1 de [RGS_v2_A4], this field must be present and contain the identification of the entity to which the holder belongs:<br><br>- The ICD is on 4 characters; (0002 for France)<br>- L'identification de l'organisation sur 35 caractères<br>- The separator between the two chains is a space.<br><br>If the ICD number is equal to 0002, it must necessarily be followed by a SIREN or SIRET number since it refers to an organisation registered in France. |
| organizationName | | This field is mandatory if the requester is a legal entity, optional otherwise.<br><br>Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Requester's country of residence or country where the requester's is established |
| ***Validity*** | | **3 years** |
| NotBefore | | Date of certificate issuance |
| NotAfter | | Date of certificate issuance + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | digitalSignature |
| ***ExtendedKeyUsage*** | ***N*** | clientAuth (1.3.6.1.5.5.7.3.2) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.4.3.1.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.4.1.4.1.crl |

| | | |
|---|---|---|
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.4.1.4.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.3.1.4.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name (SAN)*** | ***N*** | |
| otherName (UPN) | | (Optional) The server FQDN |
| rfc822Name | | (Optional) Main email address |
| rfc822Name | | (Optional) Secondary email address |

#### *2.3.3.2 Authentification Forte Machine (DC)*

Certificate profiles complying with ETSI EN 319 411-1. These certificates are available on an SSCD cryptographic module and used by Domain Controller.

| Field | C | Value |
|---|---|---|
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | **DN of the Issuing CA** |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 ID Forte |
| organizationUnitName | | 0002 572104891 |

| | | |
|---|---|---|
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |
| organizationIdentifier | | This field is mandatory if the requester is a legal entity, optional otherwise.<br><br>Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4.<br><br>In France, this registration number may also be composed of the prefix « NTRFR- » followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | Machine / Server common name. |
| organizationUnitName2 | | Name of the application linked to the certificate |
| organizationUnitName | | This field is mandatory if the requester is a legal entity, optional otherwise.<br><br>In accordance to Annex 2, section VII.1 de [RGS_v2_A4], this field must be present and contain the identification of the entity to which the holder belongs:<br><br>- The ICD is on 4 characters; (0002 for France)<br>- L'identification de l'organisation sur 35 caractères<br>- The separator between the two chains is a space.<br><br>If the ICD number is equal to 0002, it must necessarily be followed by a SIREN or SIRET number since it refers to an organisation registered in France. |
| organizationName | | This field is mandatory if the requester is a legal entity, optional otherwise.<br><br>Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Requester's country of residence or country where the requester's is established |
| ***Validity*** | | **3 years** |
| NotBefore | | Date of certificate issuance |
| NotAfter | | Date of certificate issuance + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | digitalSignature, keyEncipherment, keyAgreement |
| ***ExtendedKeyUsage*** | ***N*** | serverAuth (1.3.6.1.5.5.7.3.1) , clientAuth (1.3.6.1.5.5.7.3.2) , KDCAuth (1.3.6.1.5.2.3.5), SmartCardLogon (1.3.6.1.4.1.311.20.2.2) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.4.3.2.1 |
| policyQualifierId | | CPS |

| | | |
|---|---|---|
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.1.2.4.3.2.1.crl |
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.1.2.4.3.2.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20ID%20Forte,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/id-forte-1.2.250.1.115.200.3.5.1.4.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/id-forte-1.2.250.1.115.200.3.3.1.4.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name (SAN)*** | ***N*** | |
| otherName (UPN) | | (Optional) The server FQDN |
| rfc822Name | | (Optional) Main email address |
| rfc822Name | | (Optional) Secondary email address |

## 2.4 Certificate profiles issued by the CA Banque de France AC v3 Chiffrement.

This chapter describes all certificate profiles issued by the CA Banque de France AC v3 Chiffrement.

This chapter is divided into 3 sub-sections:

- Certificate profiles related to a natural person,
- Certificate profiles related to an entity-type application service,
- Certificate profiles related to an machine-type application service.

### 2.4.1 Certificate profiles related to a natural person.

#### *2.4.1.1 Chiffrement Personne*

Encryption software certificate (keys should be escrowed).

| Field | C | Value |
|---|---|---|
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 Chiffrement |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |
| organizationIdentifier | | Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4.<br><br>In France, this registration number may also be composed of the prefix « NTRFR- » followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| serialNumber | | Complementary element to distinguish homonyms: SHA-1 hash value of the holder's unique number within the PKI |
| commonName | | The full name of the holder as it should be displayed by applications. The holder's first name in use, followed by a space, followed by the holder's civil name or last name in use. |
| organizationUnitName | | In accordance to Annex 2, section VII.1 de [RGS_v2_A4], this field must be present and contain the identification of the entity to which the holder belongs:<br><br>- The ICD is on 4 characters; (0002 for France)<br>- Organization identification on 35 characters<br>- The separator between the two chains is a space.<br><br>If the ICD number is equal to 0002, it must necessarily be followed by a SIREN or SIRET number since it refers to an organisation registered in France. |
| organizationName | | Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Requester's country of residence |
| ***Validity*** | | **3 years** |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***O*** | keyEncipherment |

| | | |
|---|---|---|
| ***ExtendedKeyUsage*** | ***N*** | emailProtection (1.3.6.1.5.5.7.3.4), EncryptingFileSystem (1.3.6.1.4.1.311.10.3.4) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.3.1.1.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/chiffrement-1.2.250.1.115.200.3.4.1.3.1.crl |
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/chiffrement-1.2.250.1.115.200.3.4.1.3.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20Chiffrement,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20Chiffrement,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/chiffrement-1.2.250.1.115.200.3.5.1.3.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/chiffrement-1.2.250.1.115.200.3.5.1.3.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/chiffrement-1.2.250.1.115.200.3.3.1.3.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key (Banque de France AC v3 Chiffrement) |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name*** | ***N*** | |
| otherName (UPN) | | Holder's email address |
| rfc822Name | | Holder's email address |

### 2.4.2 Certificate profile related to an Entity-type application service

#### *2.4.2.1 Chiffrement Entité*

Encryption software certificate (keys must be escrowed).

| Field | C | Value |
|---|---|---|
| ***Version*** | | 2=(version 3) |

| | | |
|---|---|---|
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | **DN of the Issuing CA** |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 Chiffrement |
| organizationUnitName | | 0002 572104891 |
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |
| organizationIdentifier | | Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4.<br><br>In France, this registration number may also be composed of the prefix « NTRFR- » followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | Significant name of the service implementing the certificate Entity |
| organizationUnitName2 | | Entity's name |
| organizationUnitName | | In accordance to Annex 2, section VII.1 de [RGS_v2_A4], this field must be present and contain the identification of the entity to which the holder belongs:<br><br>- The ICD is on 4 characters; (0002 for France),<br>- Organization identification on 35 characters,<br>- The separator between the two chains is a space.<br><br>If the ICD number is equal to 0002, it must necessarily be followed by a SIREN or SIRET number since it refers to an organisation registered in France. |
| organizationName | | Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Country where the entity responsible for the certificate is registered |
| ***Validity*** | | 3 years |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | keyEncipherment |
| ***ExtendedKeyUsage*** | ***N*** | emailProtection (1.3.6.1.5.5.7.3.4),<br>EncryptingFileSystem (1.3.6.1.4.1.311.10.3.4) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.3.2.1.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |

| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
|---|---|---|
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/chiffrement-1.2.250.1.115.200.3.4.1.3.1.crl |
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/chiffrement-1.2.250.1.115.200.3.4.1.3.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20Chiffrement,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20Chiffrement,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/chiffrement-1.2.250.1.115.200.3.5.1.3.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/chiffrement-1.2.250.1.115.200.3.5.1.3.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/chiffrement-1.2.250.1.115.200.3.3.1.3.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FALSE |
| ***Subject Alternative Name*** | ***N*** | |
| otherName (UPN) | | Entity's identifier 'User Principal Name' |
| rfc822Name | | Entity's email address |

### 2.4.3 Certificate profile related to a machine

#### *2.4.3.1 Chiffrement Machine*

Encryption certificate for a machine. (Keys must be escrowed)

| **Field** | **C** | **Value** |
|---|---|---|
| ***Version*** | | 2=(version 3) |
| ***SerialNumber*** | | Unique for each certificate issued by the PKI |
| ***Key Size*** | | 2048 bits (RSA) |
| ***Issuer*** | | DN of the Issuing CA |
| organizationIdentifier | | NTRFR-572104891 |
| commonName | | Banque de France AC v3 Chiffrement |
| organizationUnitName | | 0002 572104891 |

| | | |
|---|---|---|
| organizationName | | Banque de France |
| countryName | | FR |
| ***Subject*** | | |
| organizationIdentifier | | This field is mandatory if the requester is a legal entity, optional otherwise.<br><br>Official registration number of the entity to which the holder belongs, in accordance with [EN_319_412-1] section 5.1.4.<br><br>In France, this registration number may also be composed of the prefix « NTRFR- » followed by the SIREN or SIRET number. This prefix is adapted to the country in which the organisation is based. |
| commonName | | Machine / Server common name. |
| organizationUnitName2 | | Application name linked to the certificate |
| organizationUnitName | | This field is mandatory if the requester is a legal entity, optional otherwise.<br><br>In accordance to Annex 2, section VII.1 de [RGS_v2_A4], this field must be present and contain the identification of the entity to which the holder belongs:<br><br>- The ICD is on 4 characters; (0002 for France)<br>- Organization identification on 35 characters<br>- The separator between the two chains is a space.<br><br>If the ICD number is equal to 0002, it must necessarily be followed by a SIREN or SIRET number since it refers to an organisation registered in France. |
| organizationName | | This field is mandatory if the requester is a legal entity, optional otherwise.<br><br>Full official name of the entity to which the holder belongs as registered by the competent authorities |
| countryName | | Requester's country of residence or country where the requester's is established |
| ***Validity*** | | **3 years** |
| NotBefore | | Date of certificate issuance |
| NotAfter | | Date of certificate issuance + 3 years |
| ***PublicKeyAlgorithm*** | | rsaEncryption |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| **Extensions Standard** | | |
| ***KeyUsage*** | ***Y*** | keyEncipherment |
| ***ExtendedKeyUsage*** | ***N*** | emailProtection (1.3.6.1.5.5.7.3.4),<br>EncryptingFileSystem (1.3.6.1.4.1.311.10.3.4) |
| ***CertificatePolicies*** | ***N*** | |
| PolicyIdentifier | | 1.2.250.1.115.200.3.1.2.3.3.1.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |

| ***CRL Distribution Point*** | ***N*** | **Distribution URL(s) of the Certificate Authority CRL** |
|---|---|---|
| CRLDP1 | | http://crl.igcv3.certificats.banque-france.fr/chiffrement-1.2.250.1.115.200.3.4.1.3.1.crl |
| CRLDP2 | | http://crl.igcv3.certificats.banque-france.org/chiffrement-1.2.250.1.115.200.3.4.1.3.1.crl |
| CRLDP3 | | ldap://ldap.igcv3.certificats.banque-france.fr/CN=Banque%20de%20France%20AC%20v3%20Chiffrement,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| CRLDP4 | | ldap://ldap.igcv3.certificats.banque-france.org/CN=Banque%20de%20France%20AC%20v3%20Chiffrement,OU=0002%20572104891,O=Banque%20de%20France,OI=NTRFR-572104891,C=FR?certificateRevocationList;binary?base?objectclass=cRLDistributionPoint |
| ***Authority Information Access*** | ***N*** | **OCSP service URL(s) of the CA** |
| AIA OCSP | | http://ocsp.igcv3.certificats.banque-france.fr/chiffrement-1.2.250.1.115.200.3.5.1.3.1 |
| | | http://ocsp.igcv3.certificats.banque-france.org/chiffrement-1.2.250.1.115.200.3.5.1.3.1 |
| AIA CAIssuer | | http://cert.igcv3.certificats.banque-france.fr/chiffrement-1.2.250.1.115.200.3.3.1.3.1.cer |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the Issuing CA public key |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the public key contained in the certificate |
| ***BasicConstraints*** | ***N*** | |
| CA | | FAUX |
| ***Subject Alternative Name (SAN)*** | ***N*** | |
| otherName (UPN) | | (Optionnel) the machine / server FQDN |
| rfc822Name | | (Optional) Main email address |
| rfc822Name | | (Optional) Secondary email address |

# 3 CRL and ARL profiles

## 3.1 CRL and ARL fields

| Standard fields | Value |
|---|---|
| Version | Version 2 |
| Signature | Sha256WithRSAEncryption (2.16.840.1.101.3.4.2.1) |
| Hash | sha256 |
| Issuer DN | Depending on the issuer of each CA described above |
| This Update | At the earliest on the start date of the CA validity period |
| Next Update | Next date on which the CRL will be updated, i.e. 6 days after the generation date of this CRL. |
| Revoked Certificates | Serial number of revoked certificates |
| Revocation Date | The date on which a particular certificate was revoked. |

## 3.2 CRL and ARL extensions

| Fields | Y | C | Value |
|---|---|---|---|
| Authority Key Identifier | TRUE | FALSE | Key ID = see each CA key described above |
| CRL Number | TRUE | FALSE | CRL serial number |
| ExpiredCertsOnCRL | TRUE | FALSE | Date from which expired certificates are kept in the CRL.<br>The Banque de France keeps all expired certificates in the CRL.<br>The fixed date corresponds to one day after the Certification Authority certificate generation: June 29 2019 (20190629000000Z). |

# 4 Online Certificate Status Protocol (OCSP)

Although the additional requirements do not require the installation of an OCSP responder, version 2 of the RGS does. It is also a requirement of the CA/B Forum.

OCSP responses must comply with RFC6960 and/or RFC5019. Thus, there are two possibilities:

1. They must be signed by the CA that issued the certificates whose revocation status is verified, or

2. They must be signed by an OCSP responder whose certificate is signed by the CA that issued the certificate whose revocation status is verified.

In the latter case, the OCSP signing certificate must contain an id-pkix-ocsp-nocheck extension as defined by RFC6960.

The Banque de France PKI implements solution 2, and each OCSP responder therefore has its own certificate, issued by the CA for which the OCSP responder is implemented.

Intermediate/issuing CAs do not sign OCSP responses and therefore do not contain the keyUsage digitalSignature as recommended by the RGS, which follows the CA/B Forum recommendations.

## 4.1 Common fields for OCSP signature certificate

Each intermediate / Issuing CA has its own OCSP server. The OCSP keys are valid for 3 years.

| OCSP certificate | | |
|---|---|---|
| *Field* | *C* | *Value* |
| ***Version*** | | V3 |
| ***SerialNumber*** | | Issued by the CA |
| ***KeySize*** | | 2048 bits (RSA) |
| ***SignatureAlgorithm*** | | sha256WithRSAEncryption (1.2.840.113549.1.1.11) |
| Signature Value | | Issued by the CA |
| ***Validity*** | | |
| NotBefore | | Date of keys generation |
| NotAfter | | Date of keys generation + 3 years |
| ***SubjectPublicKeyInfo*** | | Public key with a length of 2048 bits (RSA) |
| ***Issuer*** | | |
| OrganizationIdentifier | | NTRFR-572104891 |
| CommonName | | Each Intermediate CA signs the certificate for its own OCSP server/certificate :<br>• Banque de France AC v3 ID<br>• Banque de France AC v3 Chiffrement<br>• Banque de France AC v3 ID Forte |
| OrganizationUnitName | | 0002 572104891 |
| OrganizationName | | Banque de France |
| CountryName | | FR |
| ***Subject*** | | |
| OrganizationIdentifier | | NTRFR-572104891 |
| SERIALNUMBER | | SHA-1 hash value of the creation date of OCSP certificate |
| CommonName | | Each Intermediate CA signs the certificate for its own OCSP server/certificate:<br>• OCSP Banque de France AC v3 ID<br>• OCSP Banque de France AC v3 Chiffrement |

| OCSP certificate | | |
|---|---|---|
| | | • OCSP Banque de France AC v3 ID Forte |
| OrganizationUnitName | | 0002 572104891 |
| OrganizationName | | Banque de France |
| CountryName | | FR |
| Extensions | | |
| ***AuthorityKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the CA public key |
| ***SubjectKeyIdentifier*** | ***N*** | |
| KeyIdentifier | | SHA-1 hash value of the OCSP certificate public key |

## 4.2 OCSP certificates profils

| Field | C | IGCv3 Intermediate |
|---|---|---|
| ***Certificate Policies*** | ***N*** | |
| PolicyIdentifier | | • Banque de France AC v3 ID<br>  ○ 1.2.250.1.115.200.3.5.1.2.1<br>• Banque de France AC v3 Chiffrement<br>  ○ 1.2.250.1.115.200.3.5.1.3.1<br>• Banque de France AC v3 ID Forte<br>  ○ 1.2.250.1.115.200.3.5.1.4.1 |
| policyQualifierId | | CPS |
| Qualifier | | http://pc.igcv3.certificats.banque-france.fr |
| ***Key usage*** | ***Y*** | digitalSignature |
| ***Extended Key Usage*** | ***N*** | OCSP Signing with no-check |