



Description des profils de certificats et des CRL

IGC

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0.2	17/02/2021	Description des profils de certificats et des CRL IGC	DIS_IAM_PKI	BPCE-IT
1.0	08/10/2021	Ajout ECDSA pour les certificats clients	B.MOLLARD	BPCE-IT

Etat du document – Classification	Référence
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BPCE : Société anonyme à directoire et conseil de surveillance,

au capital de 180 478 270€.

Siège social : 50 avenue Pierre Mendès France

75201 Paris Cedex 13.

RCS n° 493 455 042.

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SOMMAIRE

1	INTRODUCTION	3
2	PROFILS.....	4
2.1	AC RACINE.....	4
2.2	AC SIGNATURE CLIENT.....	5
2.3	AC CACHET.....	10
3	REFERENCES.....	14

1 INTRODUCTION

Le présent document décrit les profils des certificats produits par l'IGC BPCE, en conformité avec les documents suivants :

- œ RFC 3647, X.509 Public Key Infrastructure certificate Policy certification Practise Statement Framework de l'Internet Engineering Task Force (IETF) ;
- œ *Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service providers issuing certificates ; Part 1: General requirements* (ETSI EN 319411-1, V1.2.2).
- œ *Certificate profile for certificates issued to natural persons* (ETSI EN 319412-2)
- œ *Certificate profile for certificates issued to legal persons* (ETSI EN 319412-3)

2 PROFILS

2.1 AC Racine

Version	3 (0x2)
Serial Number	1 (0x1)
Signature Algorithm	sha256WithRSAEncryption
Issuer	C = FR O = BPCE OI = NTRFR-493455042 OU = 0002 493455042 CN = BPCERootCA
Not Before	Nov 25 12:33:43 2020 GMT
Not After	Nov 19 12:33:43 2045 GMT
Subject	C = FR O = BPCE OI = NTRFR-493455042 OU = 0002 493455042 CN = BPCERootCA
Public Key Algorithm	rsaEncryption
RSA Public-Key	(4096 bit)
Modulus	00c83021b36a8e71a0f19b2b622b58d61bbd8615f63f1d4c19b2e572840c16a0557ea40edc9d5e0f0a150f8566fb9100f5c70af1b3b5f57b8f8b4331f94da4b4ad00905d8862721f60160dbdee18ff92daba07a434c53c0a1a298011eca2cb5f40c0556807d6fd4170ef1f799a1a05e9d13b3606e3965b4023a9cf4d0180c1551c4e905b8d757fa85570a6a4fc6c9a0efef44e64334e5a5550ca508c08926bd8f97e1973f0f00e98c13ce22611aa44f993225e373d024567cac60802905bcd088a7e6d9c53bf7d811c0cbc442debe9816646810c211626473d57aba43652fb433a0ed54d730076b31f1ea75092c8c7978b56b4bac271869e5bd2bf46bd957e1865f9308970cf96b7fa55d12c7b70b9ec0885018cd1a029a3094ad53969a56da987dbf3fc2c83b48cd5f0aec3f1766bb583c2d3872b04c003d2cbe758aee8db849e93e9f7f70abcc63afe7aad3fbff07244508ec65f356307aae89dc18ad13ee93f827184edbed0c551de4d3b53671a9a186d1e326b5c320c39b1bbf656d74bbf1e6b6d270e733bfff410fe7634f1ff9e5aa831cc952a110bab0358c4f1d7211a75d07fc093471633bb358a5986e13739935bb5cd4d4be695788e61c9f21365daebb817870f9f56d2c6c0fa3fb2a7cf30f703327490214e1ea6f84c7a0956308efdda558a36cc2b2d6298437a66764990524c5391553eb1c71897ce432069da9187
Exponent	65537 (0x10001)
X509v3 Basic Constraints (critical)	CA:TRUE
X509v3 Subject Key Identifier	40:EB:C3:B1:D6:E7:A1:62:C9:9E:9B:E2:55:88:3C:9A:FC:24:FB:32
X509v3 Authority Key Identifier	keyid:40:EB:C3:B1:D6:E7:A1:62:C9:9E:9B:E2:55:88:3C:9A:FC:24:FB:32
X509v3 Certificate Policies	Policy: X509v3 Any Policy CPS: http://www.dossiers-securite.bpce.fr/
X509v3 Key Usage (critical)	Certificate Sign, CRL Sign
Signature Algorithm	sha256WithRSAEncryption

```
5f6730c893cce02c22c83950b855a65ec1a1d3d346ef0e7545b15101d0f4ceec
18cead2ecf40cb6d36ef4bc7dd14afd458caa938a3d6cc079f6269e580fdefed
64ca1312e75554abece6a2d7758b61465bd11ce0ed02f134d08e9c7917e35b99
f19572e66bbde2433704d6b660ca1858a0037794939f50638a30f8a8ae4679b2
469b8be1bc774d66a5422d84f28a6518a6e332cbdf4887ab20e07c6bff9695c6
2b850715f2be1c93441b4746c7192771d154e9735bb6b879ff814db6db91e800
3877556b66de0303f0101b9331d5dcc27a1cc99987ac64964e630f20f2ff5eb0
b3c1d52bccca3c2f79946bfa9ff68e400eadab6a5f8b6a3e57fe406483bb32c122
cefd5ee1463fe104bcf96423379a2177b7e83cdc995f5e98d36a55a3f0e51785
db6ea7fc79bd5fe5da430a0b8ff2c19c6afa424f62d49bdf31660cb40e127f88
fee5a5e423908ab08527a0bf16033e14d79a8e05e35005177c5111e92a110a96
9dc71636d88df8051bc2b5e944503377ed856a774cd3f416304ff801897f9ee
192ae7ee76f120b8533bfd29a31ff53c2e0d80b79915ee28d4d546899121a71e
e6b1d2b8d7a85761afe88f9ad396d97246006ca36ef7e00ea53fff51f330165
574c7b2377589be980734ae223fdd2aef8595272d097d809a2b0568a9b4e7038
0e9e379588643bfbcca0f0ee362ce361febaefe9e4eb8c6b5cb36976c4be260
```

2.2 AC Signature client

Les profils correspondent aux OID suivants, de la PC *Signature client* [PC_SIG].

Niveau	Enregistrement	Population	OID	
NCP	AGENCE	Face à Face en agence avec vérification de carte d'identité	Particulier	1.3.6.1.4.1.40559.1.0.1.31.111.1.1
NCP	AGENCE	Face à Face en agence avec vérification de carte d'identité	Professionnels	1.3.6.1.4.1.40559.1.0.1.31.112.1.1
NCP	AGENCE	OTP CAP ou sur SMS ou SECURPASS	Particulier	1.3.6.1.4.1.40559.1.0.1.31.113.1.1
NCP	AGENCE	OTP CAP ou sur SMS ou SECURPASS	Professionnels	1.3.6.1.4.1.40559.1.0.1.31.114.1.1
NCP+	AGENCE	OTP CAP (ex : avec Challenge) Certificat numérique sur support physique (Clé USB, carte à puce, etc...)	Particulier	1.3.6.1.4.1.40559.1.0.1.31.115.1.1
NCP+	AGENCE	OTP CAP (ex : avec Challenge) Certificat numérique sur support physique (Clé USB, carte à puce, etc...)	Professionnels	1.3.6.1.4.1.40559.1.0.1.31.116.1.1
NCP	INTERNET	OTP CAP ou sur SMS ou SECURPASS	Particulier	1.3.6.1.4.1.40559.1.0.1.31.117.1.1
NCP	INTERNET	OTP CAP ou sur SMS ou SECURPASS	Professionnels	1.3.6.1.4.1.40559.1.0.1.31.118.1.1
NCP+	INTERNET	OTP CAP (ex : avec Challenge) Certificat numérique sur support physique (Clé USB, carte à puce, etc...)	Particulier	1.3.6.1.4.1.40559.1.0.1.31.119.1.1

Niveau	Enregistrement	Population	OID
NCP+	INTERNET	Professionnels	1.3.6.1.4.1.40559.1.0.1.31.120.1.1
		OTP CAP (ex : avec Challenge) Certificat numérique sur support physique (Clé USB, carte à puce, etc...)	

2.2.1 Certificats d'AC

Remarque : Il existe quatre certificats d'AC différents.

Champ	Description
Version	2 (=version 3)
Serial number	BPCE Sign 01 CA ea:13:be:bc:35:59:87:17:54:f8:b9:c6 BPCE Sign 02 CA ea:13:be:bc:1a:ae:07:31:dd:59:61:34 BPCE Sign 03 CA ea:13:be:bc:e6:3e:80:53:45:9b:ec:b2 BPCE Sign 04 CA ea:13:be:bc:70:30:d5:7f:5c:bf:ff:26
Issuer	CN=BPCE Root CA OU=0002 493455042 OI=NTRFR-493455042 O=BPCE C=FR
NotBefore	Nov 25 14:38:29 2020 GMT
NotAfter	Nov 19 12:33:43 2045 GMT
Subject	CN=BPCE Sign 0x CA OU=0002 493455042 OI=NTRFR-493455042 O=BPCE C=FR
<i>Le « x » prend la valeur 1, 2, 3 ou 4, en fonction de l'AC qui a émis le certificat (BPCE Sign 01 CA, BPCE Sign 02 CA, BPCE Sign 03 CA, ou BPCE Sign 04 CA)</i>	
Subject Public Key Info	(rsaEncryption) 1.2.840.113549.1.1.1
Key size	4096
Modulus	Voir ci-dessous
Signature (algorithm & OID)	SHA256WithRsaEncryption
Authority Key Identifier	keyid:40:EB:C3:B1:D6:E7:A1:62:C9:9E:9B:E2:55:88:3C:9A:FC:24:FB:32
Subject Key Identifier	BPCE Sign 01 CA 1C:94:10:74:45:74:D9:38:41:FC:D6:E4:BB:A2:12:B5:E2:83:E8:5C BPCE Sign 02 CA 2E:75:1E:34:CB:A6:B7:DB:E1:09:27:C5:F7:A0:D9:48:A9:08:6F:40 BPCE Sign 03 CA A3:EE:4E:D3:37:FB:89:A1:FA:50:61:C2:60:8F:5A:AB:C2:00:42:00 BPCE Sign 04 CA FE:D2:45:19:6B:25:CD:06:9F:94:0B:E6:AC:45:28:7C:AF:32:A6:09
Key Usage (critical)	keyCertSign, cRLSign
Certificate Policies (critical)	
policyIdentifier	2.5.29.32.0 (AnyPolicy)
policyQualifier-cps	http://www.dossiers-securite.bpce.fr/

Champ	Description
X509v3	
Basic Constraint (critical)	CA:True pathLenConstraint:0
CRL Distribution Points	
distributionPoint	URL http://pro.d00.pki02.bpce.fr/BPCERootCA.crl URL http://pro.d01.pki02.bpce.fr/BPCERootCA.crl URL http://pro.d02.pki02.bpce.fr/BPCERootCA.crl
Authority Information Access	
Access Method	1.3.6.1.5.5.7.48.2 (Autorité de certification émettrice)
Alternative Name	URL http://pro.d00.pki02.bpce.fr/bpce-root-ca.crt

Les modules de chacune des AC sont :

BPCE Sign 01 CA	bfee525aecab513f4fe6852628af63d864f8903e643e8af87492c5a6ef8ae699b00176ec45e58a07c109c5db715d4ea93f163580ec81c0fdce49b7504e2dddc7401911d1e43e15dcb6fdf6dd995fe3fed6f09fc55aa62fd6fa847439943107d40a46a7eba007f934c584e0c936f187416f1fd6d75a864111a1be4818595d29ca45d954d33c536ebabf41b94e11c90bc7f0c8739d2bb5b9f8c767e222a6566573ffeff75bf406826818f0c4acle18369fb210b6361475eace4bd5adb9107bb08221c1f6a182f871811795bec4b66c8e8b2b6bc79500503ddf46b1eab29389de7c08a375d7391dc151541e4ac7af7b22ae2dd4ea53f7a764429ca3478355af98b70f3be03a8a2e397c20aeac0e6f2f04467ff590413f7309a2f2da726738675a1529a99b65b3c8207db8484ba352dc177b976d72f558dff8432cc8f316b3133bb7f3c1d88a89fb1a44e58d9ecf1bc0b84b21097e06c4c80d6e1c581020c05614bed8673b0c6ffbf6a10a689c1d831e2a344c7c8a7e5dd385b013ba419078ad13a5106c8f42537c9c561034ee15474daafdedcc1188c163ec59a8e4e84bde7dcc09c28782cdc393e8bf3d6254bde6f9d77fb3cc96a28fe7959a48d2c12d17ad0b38efd5cdcd836a8be117e6e16199bd6db9afc99e38b0b592d4373bee7c318139ae94dbe97d32dd9ec8e89f3b0cc74d2e66e688bac97e6446596b4479a435711d
BPCE Sign 02 CA	c1c7b4461649ede0bc085dddc706f28a47805b051942d9da44ce818632d246119714394ee846ff994dd101c9883179133669367108b1271cde8a49dbdbba73a444b24828323a264db37556da30bcd8e381f864670b053edbed2e769ab1055c1ba76d7d0328fe52cbf0396def19da5f0b3a87831189caf0b68a28ed45b4e808fe5091147efd4e4eb04c2d1daa18693a008e3ebbd310464d5621de969ce0234daa2d7c7ea9662621bb456a7b7f2703244d76c99a0dcff379a5785016b7b2895c504f2304491b6542f68d0433f5d134529270451945f824a93ec34fd247f28383f8a07a5756a8d8f94983107df295621749acf07626d933b8051e00587b44c7ce1ede11a4916fe706baef3870063e62ceac883235561acc9fa561b64bd1b5fe4a35eb6982f8ec6cc3a4fd5f2ca3f1f5fa8b7ca958a46827276e841d1757b0217bf86c5c438b269e3945cfff287d1f515de720e83db53a6759f949b1ad445ce1260fc27a4222a8f205fd3c6131261dfea326a7c715c39cc06d2ab4e22790ae27f6576a41d8588ba9c8bf3dbf3e822f9d253db6330c5c0eda60d6ae422cf0566cd04467d4e6bdd4feea26ce6be02156bdec7c88a9bd72688022a0b3163660cf579e0371e47770ebd5e0b115b14019e7d5bdd9cb3ce8690e72a45ad30a759f9adf62cad16203946f2294685c8a469936ae53e0fbdf5444a7b12aec69666c178981f9b0d
BPCE Sign 03 CA	b20d025b52770e13fe836e37740ba3554fe53e38187850886d1df705584035acefc7c284207f8e45b3568d2d316830941bb0c330759134c1ba443e002ab7ca6e91e4eb453c859d219a3059be2ca9a49351e3138810fc8380bb1f6c99e8ed508a68d7359dd5df4254bd3c47e43148339b816e5b3191e6612565e101414c9c9e3f19af4e3bdc3f3c7d83f28e323d66472bbd1380429e0db8288060ae72d591c7be8d0b8d777d69bc3e35ecf5175bf4bb56867ba66e5ba53b30f882488ba4159b9379a8fa22a652758df2b8cf10899824fba7417fca8ce8d8ac614f43f2c30cfe0aca30ab09da8cd8eadd684e23e84f144b0a14a55e3b30460cc9d6b66a94fb79613452a93a3d190e142acc27b3d9428ddb7064202569da3efcc17f1a10555f3873ce7a0902343fc15f575b1fd9dd3f162019dc88297b2fdafeb05924f740cc9b8d15b551ccd699e74aa47c39f234d4f3b68468165c4e93755d7e06e57fd897b3244fe33a78a6f4309c19ccde81ac6822104d3e90681fa827d9f3b9768f0738ce6bd574ad82dd4d36ee6d62d273e6e4d8cf95a6944fe3f5b0b970d3d2335f9ccb81d594f038e2feee2875365d1696565d1d987e0a09d035764f3f6beaa9cb979ef8207e51580ae188d022caed74d4585b51155bc2422d2976a7169aed4a963df3b086402e2ac1e708093da18919d1937e6169a77b2951b1d46ec5804c3eba7423

BPCE Sign 04 CA	a9fdb59563a30197dd2e9400ba1d8e56eafe5d1f426bdea8634b81829b0324c9ab585d7887e d11078fb1d26307c93c88d8839192e258e91638d18afe1e3c93df537b78de1d6c5394145491 e4509532ab43a099fcd3f01c0a9691d61b36801d1f7c22c8c12dff517f13fa8a5b61dfd3026 f933a1bbdea0e3830d7aace767a60aeddb175e324c841b925244c8fffd111e135274944b965b 044019ab71b0a48e6a24ddb3baa9cabeldfbd7151d8fcf453d06d7f05b7311000974dd44f5b e90d469bf863adf2719ce06ab695a007954baf4ec7673e7d70db634ed4d175b404f71cbfc05 a04c37aa440eb21dace7fd867257bd6431d78fdfeaea8a63cf3cbfaf5addf80ae84fe1e3a30 8f6d8e63237ae77fa23410a8c6e1b5e7b2d425645c3391d1330eb2ac63886f2aeef1a292e38 319b7292f3f867743b46c9bfe82155906f0163a0e4230fc42275e9bb8a336cc36be85c0bb5f 908332f2619789776e1a13aba46550f6a6a41c5d605ec958f1a91de39f39054db106423ee91 786d060db7885dc6f2414be5f2c0621281698adcdceaeac48b230a07cabe6991f514e991b a83c1ff7584c4cddd013c2ac7aea7491dae4eb874d2ac33c1b07e01cb52f90feef54cb34d17 e1759eed26e75ca8e92d6d0624d15969e6b07499e90a7e127309650c302da28a043cea34b84 47dcc5b5c82702cc913727aebbf6199680052a35f61caffa3
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Les signatures de chacun des certificats sont :

BPCE Sign 01 CA	003f2fb928b2a515129dcf80720e0585e4b81663a5f22dc18e9dd80cbc096f8698092f09276 71bbe80ac93f8217b90832adf9d89dbbc478dd08f75a279ab6456f347a6822de08fd98fcdcb b0557e2a2838b693325bf21742bba99af8bfb4ed75af086dfa615f8defeb36b774b4b0660e3 2718f508a9abcf341b1eb9a5d56b9c6358b50d6a383b150b1a5639dc608f3c7f783c9015074 e5fb49a1406d6da136ac4b4c79a0bd5c658972aaade849c796682535fec029840159213c94 8ae47b1d06708c41c4b87148cd22e977c2b189e975f30f6abe494fce32eec5adccf670c6261 6e30785eabd27e883f4e5aebc8d32ce5ad409ef6bf0fb444a4fb1a7f01314c045e9ac4678d5 b8ef836b026bf41dfbfefbfe3eaf0cfed79cc646e21481ccb73054d6500e1464a768ef9ef03 31c1a837874a33599c9a936c68c396df69e6608864e3fc06ad8ab41f647a7a3452112dc924d c511624e781d6b43d1b4c80546bbc42d262532d0d7bed73cb7344b68c4865114bf90ea3d56 5c69f0f0fb0ac082d56925e887d81e3d6921047e4c2c4e0dc87a43d26c369428dae8b85c54d 9d9188f07bc6d8547d45173fce8ab7d0e1aac395e37c1dbadf544bd16484d2a5d5f5be32e46a 72591a453132c18bb955ac3ad14f4c72a8cdab74c52d9ec4c81abfbc4c717c5e21862d2cdacb 974fc72e4a7df5e332eda20e25c74d057 6b03a31c63196916
BPCE Sign 02 CA	07be9b37c07e8a022173f39fbd4e3c70ae8d7c3bba1fdfd169dc5ae824374e36d184267efe5 d5fdeedcaa683747f98d7cae3dd2073dd27a5b43de8cf188cf61b63dcb6818b686c9de7737f be5ad9d2c8b9ae3559ed6184eae2ee30b20ba235a320decddade40a7e0d1ce8304554f768a5 e15b0e53606d9a66b03c8a00ef23d38b9abe9099386e0415b1b7548b90c20f6e8caab9e978e c1ffe67fdac31aed0662b55a5aa5109367f9428dd5e47ceb8b007ba77c84da14d44ef4bb336 d00f7baeccddf58775558a7b81cf6209ff0739d94f0b0dc662478654f283cc73ebcd89354d5 f3bf6be74103ed9a5227b27afca5d60106443fb4b4cc2aaab7bb9cc0b6963e4a3d2e3ed55b9 7c2aa48f27d662e376a2b5c42343798b7624b4120a97ec8ab2abf198dac408a171416f0b231 53b74765c0289b0dc05d2520bddac08b3e677c51268cd83ef5f77fa9d00dcb852d634d283de 9c9e566389a3ff15aa9a87b5f400c38fd71ee36dff05efaf1edb46c29a18496fcb410cd2d52 59ceb2f1682abb3a13e65065280263f57774eed257c44b5e8a28f9ae1d42952da3b4e08c0c5 e5781c398c42c766f02b8181e779665ad712ca800889cdd3b7e0487c9beb47eebe041b3f858 0d5a00fc3712db9a17993b57b775c597a022075fc2e146265d9507b6f19e09b09d476122660 49ce9cb62fa41c94cfd3f6405d3c9722 1d8bba5988d16a4b
BPCE Sign 03 CA	b824488bf2e3b8f4be0940386089dd500987625f1e5f4c8d9952d6612ceb40b71a13c3bb935 c8c662cd3b40d474d36fc12de8dd63b1675c494f03acc471f320017c7354edbef35750104e3 7c1970fe9cbf2bc522957e8fb4f67d112d41bbc4d9e10c22e069aa38c84dbd4bc7ed0049a9a a75d194681dad45f1d70c4e7da0ed5b6a04903d009a5d34d0d44aaeaf8357c61b229cda0eff 9cc9d80f52d03a575cba4704a0667dbaa209889d86fe5e1e97a91d9009dff03504f85b2dd80 46c763613d4514f229316443797632112cc41d16a97ae27025fef5631167169dad70671513 1a1ff8f1355b6731625db81ed84bac3081fd8cb4c2b92c0bb60807bc888afc7425a9fd7df2c c80fa2565369ed57edc8afe2152207679f606756eff032693f710007fc3e3c743889b6de 44fabe333cdb6b422024f6e19be9cc17b28a71a6b519a30caeb44872eab0bd2ffd8532b4632 24721776d617ee3588d190f418259851709b453633bcc3ebee8918fb54b5f8e8de4d09b90b ffdc0918caeb22e61de46bb12cc3ec6fd1f941a83bc4699e872c0ed52182581718701181828 f1ab71468ac35b3a726b154c5e557f8b2f48618f265dded6ba5eae5b89431154652550a19bb d3b172b1d210957a14c40f0820e903e95b96c2c0b4cb82263d8c757232c6e819daa1a63d333 c7cf549aa0aa43278346b595b5d7bd775 a7ffa9489e6fb8a9

BPCE Sign 04 CA	1cfc5968c9f7cb105a40e74d9f7b7a37ecac147b007714c232a3dd1230e508a55b90b298e6a0d2717deaf836a28df9f45627b9aed3932d8062c5f726afca337476184cf1ae0a9b336ba45ad04f80fee0d87594a1991a20f63cbd396f59c1d81c539b63dafa21ff8a2917cdfb23b205d220531fdbb1f43c2e5eaad79d9185d40c43ad6964165893cae78cf71b5b3a84680ef2608548999648387c8a13070efcf25faee03f81fced88323ef902f668fc7c2e580bf84265402d9287bb88d2d9b3989eb254548e673b0d2020ecf6ee106c4488c3d7ae8884a6dc6eb873a73f4f81d3b7dd43e48ab7bc906990981bf391c5127acee2ebfe2a8a26c743dd73870df65fcfab750aea5b7ff3d51775337e0ec9ccf592395b06ac051c2f2159b53b9bbe8c681f9cbb74c6375aa76cab2a22adb69303a3d57ee31aeb6a84a5f57ae5759f4856a1ca183ebca5fec43ea45cb25becf56baa5d90b6b61f95a87cc9bab42b030e725dac88cc1e266623a2b6e9e7f045c80beb21086433cab8cbdbfb9ee1cb0f662007eacb22272e25df8cbd8bf335790f1702de1def79b7c1e9d04930e967aa7815c7037e8f205faabc2ee6cba910508b061173cabe9734b69a478fa32743a66566252096dc50e5dbda4907aa2521bda05df5cd0007a4f5d159d14a86654ad2afcebb251963a31d54a776de2b31ef44763b7f36e9118cc059 a588d07cce71a3e8
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2.2.2 Certificats porteurs

Champ	Description
Version	2 (=version 3)
Serial number	Défini par l'outil
Issuer	Voir [PC_SIG]
NotBefore	AAAA/MM/JJ HH:MM:SS Z (date d'émission du certificat)
NotAfter	AAAA/MM/JJ HH:MM:SS Z (10 minutes après la date d'émission du certificat)
Subject	Voir [PC_SIG]
Subject Public Key Info	(rsaEncryption) 1.2.840.113549.1.1.1
Key size	2048 ou P-384
Signature (algorithm & OID)	SHA256WithRsaEncryption
Authority Key Identifier	Identification de la clé publique de l'A.C. émettrice
Subject Key Identifier	Identification de la clé publique du porteur
Key Usage (critical)	contentCommitment, digitalSignature
Certificate Policies (critical)	
policyIdentifier	L'un des OID ci-dessus.
policyQualifier-cps	http://www.dossiers-securite.bpce.fr/
X509v3	
Basic Constraint (critical)	CA:False
CRL Distribution Points	
distributionPoint	URI http://pro.d00.pki02.bpce.fr/bpcesign0xca.crl URI http://pro.d01.pki02.bpce.fr/bpcesign0xca.crl URI http://pro.d02.pki02.bpce.fr/bpcesign0xca.crl
Authority Information Access	
Access Method	1.3.6.1.5.5.7.48.2 (Autorité de certification émettrice)
Alternative Name	http://pro.d00.pki02.bpce.fr/BPCESIGN0XCA.crt

Le « x » prend la valeur 1, 2, 3 ou 4, en fonction de l'AC qui a émis le certificat (*BPCE Sign 01 CA, BPCE Sign 02 CA, BPCE Sign 03 CA, ou BPCE Sign 04 CA*).

2.3 AC Cachet

2.3.1 Certificats d'AC

Champ	Description
Version	2 (=version 3)
Serial number	ea:13:be:bc:ab:2d:00:55:f4:32:35:82
Issuer	CN=BPCE Root CA OU=0002 493455042 OI=NTRFR-493455042 O=BPCE C=FR
NotBefore	Nov 25 14:44:23 2020 GMT
NotAfter	Nov 19 12:33:43 2045 GMT
Subject	CN= BPCE Seal Time 01 OU=0002 493455042 OI=NTRFR-493455042 O=BPCE C=FR
Subject Public Key Info	(rsaEncryption) 1.2.840.113549.1.1.1
Key size	4096
Modulus	e7bbc140adf8d56e89996e90cd8eeb30b81fe893bdfbbe91df2e7de187beeb201b40b3331fbd65c8eb1ef77ebdfa77dd6e8ad6f1f19ecaf03d141d0107ae75ae9e6702282fc88879a7577c8d9783c2783c1d080e558d225ea2ce33e2cbdfc245fbd60d66525372027978023378357ea96161a97a32a1e1caf3a491a85259cfa2155699a1feef38a5132d4676d138e27db921485fe466936b1c2c60f199b131ae7916baf1a116e43135f4b3f7c6225c0f96d2200e81e96359aedf0a559a09038811e618d7c12b264902ab3c9bc4582519b10a5620d8a14105222f9dbf1b54e728bca506d8001008c5d6f53c9af67c8c135200aaf0c79f083aa0700f9c53c78071fb4d8026e28c1a8a796c1f242cf1f2dd4ef20280210b0f2f8d533e1a0f24abe4b0b56e668d83e2f9c48840d61f73106839248cf6b69822cdcd48e32d21e16fdfbe844078ab2aea8d1800dc6382a8c99d771d21c8ff7bbc73526c649d6f90b2cf39fb720f8383735393a95788fb672a50fee7a7543e5f2c6fd3074e2bcb91e12edfacc9c108e99cd8c3c0967564ab3216b902b57a21897a77d48675032cc00f067a28a190390e69fa97eb21fa49dfad01f1c4f4ca31edcd2265042a29ed63937cbc4c2887942903ee020525aad963c391463f6ad8167d3d01c548a0625fe71ac81726ab655a0bf41ffe3bcc2c767e857108ac6fbb544910988226b470acc2b8d
Signature (algorithm & OID)	SHA256WithRsaEncryption
Authority Key Identifier	keyid:40:EB:C3:B1:D6:E7:A1:62:C9:9E:9B:E2:55:88:3C:9A:FC:24:FB:32
Subject Key Identifier	57:BD:85:17:9F:3E:BC:A9:02:59:61:B9:FC:95:03:4B:1B:22:2D:77
Key Usage (critical)	keyCertSign, cRLSign
Certificate Policies (critical)	
policyIdentifier	2.5.29.32.0 (AnyPolicy)
policyQualifier-cps	http://www.dossiers-securite.bpce.fr/

Champ	Description
X509v3	
Basic Constraint (critical)	CA:True pathLenConstraint:0
CRL Distribution Points	
distributionPoint	URL http://pro.d00.pki02.bpce.fr/BPCERootCA.crl URL http://pro.d01.pki02.bpce.fr/BPCERootCA.crl URL http://pro.d02.pki02.bpce.fr/BPCERootCA.crl
Authority Information Access	
Access Method	1.3.6.1.5.7.48.2 (Autorité de certification émettrice)
Alternative Name	URL http://pro.d00.pki02.bpce.fr/bpce-root-ca.crt
Signature	3a59031cb1b41ae67e80adc518beb6a79e9ae88f1c4e9f0c825da8d89e7335bce919033eea194a90e67d6990b482aff44f748cc835f6d624f9de6f1c3e65614871cf024477abe89af7bb6a8b2faf1be1cb7d14b0d80d8200ed612531fdd8d cc04478f4165ae594e7241c6c22c7ad103a563597c4804d85df3bc431748f9ba7a1fd408d617081e911f27201551dd45f7b7e80d7b19bab82f14e7ea917fda d41dbd1252399614fc20eed25798d97eeffde9c41dfd6cc7c4cac86bb54890f 20c6ba2dba3b6dd3e94700d745f9f8f30c44c4007361bc78c9426bb28a605b5 86aee73fbb21472c40d4a5e2e28a50217cb2370c742be987cf9cc9551666cc 7a1cdd06c2fb8c04ce63879bc0f4931754267d767a71bab3f2c8e90f12aa942 b70f00c6a33f69106458debe06a89fc4515096243a0c2a8454360b50ddc9ea5 e5c3928171e1d8b276a388c0e19bbb5b173be1c0f73c285ed3d4ab0b6c98bc0 58d24dda039ac092a92b28bc45b1d5b57afbd327b752698620ff23d558b6cac 3d0721bc26fb17afda3d386b8b7debbb457835627e27f127e9384cab17a9328 e68c5fb4a33683a13883d076aca5ad9e335f487c71d9c79b0eb0d2c66b2ec87 485fe325821cfdd98d42d4e77cf920b7a17e22fc56b272c33878e062481f5bd 1b5b38c092074987a6430b2386c87d963e6ada86b63bb26cb7fa5fb0c424bd7 4514f036e0b31638

2.3.2 Certificats cachet serveur

Champ	Description
Version	2 (=version 3)
Serial number	Défini par l'outil
Issuer	Voir ci-dessus
NotBefore	AAAA/MM/JJ HH:MM:SS Z (date d'émission du certificat)
NotAfter	AAAA/MM/JJ HH:MM:SS Z (3 ans après la date d'émission du certificat)
Subject	Voir [PC_CHT]
Subject Public Key Info	(rsaEncryption) 1.2.840.113549.1.1.1
Key size	2048
Signature (algorithm & OID)	SHA256WithRsaEncryption
Authority Key Identifier	Identification de la clé publique de l'A.C. émettrice
Subject Key Identifier	Identification de la clé publique du porteur
Key Usage (critical)	digitalSignature
Certificate Policies (critical)	
policyIdentifier	1.3.6.1.4.1.40559.1.0.1.31.210.1.1

Champ	Description
policyQualifier-cps	http://www.dossiers-securite.bpce.fr/
X509v3	
Basic Constraint (critical)	CA:False
Extended Key usage	1.2.840.113583.1.1.5 (Adobe CDS AuthenticDocumentsTrust)
CRL Distribution Points	
distributionPoint	URI http://pro.d00.pki02.bpce.fr/bpcesealtime01ca.crl URI http://pro.d01.pki02.bpce.fr/bpcesealtime01ca.crl URI http://pro.d02.pki02.bpce.fr/bpcesealtime01ca.crl
Authority Information Access	
Access Method	1.3.6.1.5.5.7.48.2 (Autorité de certification émettrice)
Alternative Name	http://pro.d00.pki02.bpce.fr/BPCESEALTIME01.crt

2.3.3 Certificats horodatage

Champ	Description
Version	2 (=version 3)
Serial number	Défini par l'outil
Issuer	Voir ci-dessus
NotBefore	AAAA/MM/JJ HH:MM:SS Z (date d'émission du certificat)
NotAfter	AAAA/MM/JJ HH:MM:SS Z (4 ans après la date d'émission du certificat)
Subject	Voir [PC_CHT]
Subject Public Key Info	(rsaEncryption) 1.2.840.113549.1.1.1
Key size	2048
Signature (algorithm & OID)	SHA256WithRsaEncryption
Authority Key Identifier	Identification de la clé publique de l'A.C. émettrice
Subject Key Identifier	Identification de la clé publique du porteur
Key Usage (critical)	digitalSignature
Certificate Policies (critical)	
policyIdentifier	1.3.6.1.4.1.40559.1.0.1.31.211.1.1
policyQualifier-cps	http://www.dossiers-securite.bpce.fr/
X509v3	
Basic Constraint (critical)	CA:False
Extended Key usage	1.3.6.1.5.5.7.3.8 (id-kp-timeStamping)

Champ	Description
CRL Distribution Points	
distributionPoint	URI http://pro.d00.pki02.bpce.fr/bpcesealtime01ca.crl
	URI http://pro.d01.pki02.bpce.fr/bpcesealtime01ca.crl
	URI http://pro.d02.pki02.bpce.fr/bpcesealtime01ca.crl
Authority Information Access	
Access Method	1.3.6.1.5.5.7.48.2 (Autorité de certification émettrice)
Alternative Name	http://pro.d00.pki02.bpce.fr/BPCESEALTIME01.crt

3 RÉFÉRENCES

- [MCOM] *Mesures communes*, publié à l'adresse www.dossiers-securite.bpce.fr
- [PC_SIG] *Politique et pratiques de certification – Signature client*, publiée à l'adresse www.dossiers-securite.bpce.fr
- [PC_CHT] *Politique et pratiques de certification – Cachet Serveur & Horodatage*, publiée à l'adresse www.dossiers-securite.bpce.fr