Scheme name

BE:Supervision/Accreditation Status List of certification services from Certification Service Providers, which are supervised/accredited by the referenced Scheme Operator Member State for compliance with the relevant provisions laid down in Directive 1999/93/EC of the European Parliament and of the Council of 13 December 1999 on a Community framework for electronic signatures and its implementation in the referenced Member State's laws.

Legal Notice

The applicable legal framework for the present TSL implementation of the Trusted List of supervised/accredited Certification Service Providers for Belgium is the Directive 1999/93/EC of the European Parliament and of the Council of 13 December 1999 on a Community framework for electronic signatures and its implementation in Belgian laws. The applicable legal national framework is the Belgian CSP act of 9 July 2001 to create a legal framework for the usage of electronic signatures and certification services.

Scheme territory

Scheme status appropriate

determination approach

Scheme type community rules

http://uri.etsi.org/TrstSvc/eSigDir-1999-93-EC-TrustedList/schemerules/common

http://uri.etsi.org/TrstSvc/eSigDir-1999-93-EC-TrustedList/schemerules/BE

2010-01-01T00:00:00.000Z Issue date 2010-05-15T00:00:00.000Z Next update

Historical information 10959 days

period

Sequence number

Scheme information

URIs

http://tsl.belgium.be/ http://tsl.belgium.be/nl/

http://tsl.belgium.be/fr/

Scheme Operator

Scheme operator

name

FPS Economy, SMEs, Self-employed and Energy - Quality and Security -

Information Management

Scheme operator street address

NG III - Koning Albert II-laan 16

Scheme operator postal code

1000

Scheme operator

Brussels

locality

Brussels

Scheme operator

state

BE

Scheme operator

country

http://economie.fgov.be

Scheme operator contact

mailto://be.sign@economie.fgov.be

Trust Service Providers

Certipost NV/SA

Service provider

Certipost NV/SA

trade name

Information URI

http://repository.eid.belgium.be/EN/Index.htm

http://www.certipost.be/dpsolutions/en/e-certificates-legal-info.html

Service provider

Centre Monnaie

street address

Service provider postal code

1000

Service provider

locality

Brussels

Service provider state Brussels

Service provider

BE

country

CN=Belgium Root CA, C=BE

Type CA/OC

Status undersupervision

Status starting time 2003-01-26T23:00:00.000Z

Service digital identity (X509)

Version

Serial number 117029288888937864350596520176844645968

Signature algorithm SHA1withRSA

Issuer CN=Belgium Root CA, C=BE Valid from Mon Jan 27 00:00:00 CET 2003 Valid to Mon Jan 27 00:00:00 CET 2014 Subject CN=Belgium Root CA, C=BE Sun RSA public key, 2048 bits Public key

modulus:

2532727247174242475310876111302551541350771290487408393990707355 3139389403581555633427000903307438065008396155423372038139338001 129228397387437566169146147569101132153735147576372578550015244598849082833749686618262398710652224019389731334957158067691632442561241462450868417538609485432931629806056877222374520561111218 99045054185334840993850231444451389753510255757495036795472263810313002138087279503333349672249420020049348388123734713844115265790266507753545893758022556650119414854675563337473296025894960416159860774175448506963241118776049541934983183035608916277217984

30948172071644141969017225065301229219951

public exponent: 65537

Subject key identifier 10f00c569b61ea573ab635976d9fddb9148edbe6

Authority key identifier

10f00c569b61ea573ab635976d9fddb9148edbe6

Key usage

keyCertSign

cRLSign

Basic constraints

CA=true; PathLen=unlimited

SHA1 Thumbprint

dfdfac8947bdf75264a9233ac10ee3d12833dacc

SHA256 Thumbprint

7c7ed4240bb253bb35c376e12e00b027f1659df9d8267422a93eed75edc7adfb

Extension (critical: true)

Qualifications

Qualifier: QCSSCDStatusAsInCert

Assert: atLeastOne

Policy OID: 2.16.56.1.1.1.2.1 Policy OID: 2.16.56.1.1.1.7.1

The decoded certificate:

[5]: ObjectId: 2.5.29.15 Criticality=true

KeyUsage [
 Key_CertSign
 Crl_Sign

Additional service information

RootCA-QC

```
Version: V3
Subject: CN=Belgium Root CA, C=BE
Signature Algorithm: SHA1withRSA, OID = 1.2.840.113549.1.1.5
Key: Sun RSA public key, 2048 bits
25327272471742424753108761113025515413507712904874083939907073553139389403581555633427000903307438065008396155423372038139338001129228397387437566169146147569101132153735147
77417544850696324111877604954193498318303560891627721798430948172071644141969017225065301229219951
public exponent: 65537
Validity: [From: Mon Jan 27 00:00:00 CET 2003,
          To: Mon Jan 27 00:00:00 CET 2014]
Issuer: CN=Belgium Root CA, C=BE
              580b056c 5324dbb2 5057185f f9e5a650]
SerialNumber: [
Certificate Extensions: 6
[1]: ObjectId: 2.16.840.1.113730.1.1 Criticality=false
NetscapeCertType [
 SSL CA
 Object Signing CA]
[2]: ObjectId: 2.5.29.14 Criticality=false
SubjectKeyIdentifier [
KevIdentifier [
0000: 10 F0 OC 56 9B 61 EA 57 3A B6 35 97 6D 9F DD B9 ...V.a.W:.5.m...
0010: 14 8E DB E6
[3]: ObjectId: 2.5.29.35 Criticality=false
AuthorityKeyIdentifier [
KeyIdentifier [
0000: 10 F0 OC 56 9B 61 EA 57 3A B6 35 97 6D 9F DD B9 ...V.a.W:.5.m...
0010: 14 8E DB E6
[4]: ObjectId: 2.5.29.32 Criticality=false
CertificatePolicies [
[CertificatePolicyId: [2.16.56.1.1.1]
[PolicyQualifierInfo: [
qualifierID: 1.3.6.1.5.5.7.2.1
qualifier: 0000: 16 20 68 74 74 70 3A 2F 2F 72 65 70 6F 73 69 74 . http://reposit
0010: 6F 72 79 2E 65 69 64 2E 62 65 6C 67 69 75 6D 2E ory.eid.belgium.
0020: 62 65
]] ]
```

```
[6]: ObjectId: 2.5.29.19 Criticality=true
BasicConstraints:[
CA:true
PathLen:2147483647
Algorithm: [SHA1withRSA]
Signature:
0000: C8 6D 22 51 8A 61 F8 0F
                               96 6E D5 20 B2 81 F8 C6 .m"Q.a...n.
0010: DC A3 16 00 DA CD 6A E7
                               6B 2A FA 59 48 A7 4C 49
                                                       .....j.k*.YH.LI
0020: 37 D7 73 A1 6A 01 65 5E
                               32 BD E7 97 D3 D0 2E 3C 7.s.j.e^2.....<
0030: 73 D3 8C 7B 83 EF D6 42
                               C1 3F A8 A9 5D 0F 37 BA s.....B.?..].7.
0040: 76 D2 40 BD CC 2D 3F D3
                               44 41 49 9C FD 5B 29 F4 v.a..-?.DAI..[).
0050: 02 23 22 5B 71 1B BF 58
                               D9 28 4E 2D 45 F4 DA E7 .#"[q..X.(N-E...
0060: B5 63 45 44 11 0D 2A 7F
                               33 7F 36 49 B4 CE 6E A9 .cED..*.3.6I..n.
                               42 7B D7 F1 60 F2 D7 87 .1.\...B...
0070: 02 31 AF 5C FD C8 89 BF
0080: F6 57 2E 7A 7E 6A 13 80
                               1D DC E3 D0 63 1E 3D 71 .W.z.j.....c.=q
0090: 31 B1 60 D4 9E 08 CA AB
                               F0 94 C7 48 75 54 81 F3 1.`.....HuT..
00A0: 18 AD 77 9C F8 B2 8F DB
                               83 AC 8F 34 6B E8 BF C3 ..w.....4k...
                               BD 36 86 36 BA 21 8C 97 ..C.dU...6.6.!..
00B0: D9 F5 43 C3 64 55 EB 1A
                               EC A7 1D AB BE B9 4A 9B
00C0: 1A 21 D4 EA 2D 3B AC BA
00D0: 35 2F 1C 5C 1D 51 A7 1F
                               54 ED 12 97 FF F2 6E 87 5/.\.Q..T....n.
                               7D E6 59 6E 06 94 04 E4 .F.t...=..Yn...
00E0: 7D 46 C9 74 D6 EF EB 3D
```

The certificate in PEM format:

---BEGIN CERTIFICATE-----

MIIDlDCCAnvaAwIBAaIOWAsFbFMk27JOVxhf+eWmUDANBakahkiG9w0BAOUFADAn MQswCQYDVQQGEwJCRTEYMBYGA1UEAxMPQmVsZ2l1bSBSb290IENBMB4XDTAzMDEy ${\tt NjIzMDAwMFoXDTE0MDEyNjIzMDAwMFowJzELMAkGa1UEBhMCQkUxGDAWBgNVBAMT}$ D0JlbGdpdW0aUm9vdCBDOTCCASIwDOYJKoZIhvcNAOEBBOADaaEPADCCAOoCaaEB AMihcekcRkJ5eHFvna6pqKsot03HIOswkVp19eLSz8hMFJhCWK3HEcVAQGpa+XQS J4fpn0VxTiIs0RIYqjBeoiG52bv/9nTrMQHn035YD5EWTXaJqAFPrSJmcPpLHZXB MFiqvNll2Ja0i0tJRlLf0lMVdssUXRlJsW9a09P9vMIt7EU/CT9YvvzU7wCMaTVv v/cY6pZifSsofxVsY9LKyn0FrMhtB20yvmi4BUCuVJhWPmbxM0jvxKuTXgfeMo8S dKpbNCNUwOpszv42kqgJF+qhLc9s44Qd3ocuMws8d0IhUDiVLlzg5cYx+dtA+mqh pIqTm6chBocdJ9PEoclMsG8CAwEAAa0BuzCBuDA0BqNVH08BAf8EBAMCA0YwDwYD VROTAQH/BAUwAwEB/zBCBgNVHSAE0zA5MDcGBWA4AQEBMC4wLAYIKwYBBQUHAgEW IGh0dHA6Ly9yZXBvc2l0b3J5LmVpZC5iZWxnaXVtLmJlMB0GA1UdDgQWBBQQ8AxWarder and the property of thm2HqVzq2NZdtn925FI7b5iARBqlqhkqBhvhCA0EEBAMCAAcwHwYDVR0iBBqwFoAU EPAMVpth6lc6tjWXbZ/duRS02+YwDQYJKoZIhvcNAQEFBQADggEBAMhtIlGKYfgP lm7VILKB+MbcoxYA2s1q52sq+llIp0xJN9dzoWoBZV4yveeX09AuPHPTjHuD79ZC wT+ogV0PN7p20kC9zC0/00RBSZz9Wvn0AiMiW3Ebv1iZKE4tRfTa57ViRU0RDSp/ M382SbT0bqkCMa5c/ciJv0J71/Fg8teH9lcuen5qE4Ad30PQYx49cTGxYNSeCMqr $8 \verb| JTHSHVUgfMbrXec6LKP240sjzRr6L/D2fVDw2RV6xq9NoY2uiGMlxoh10ot06y6| \\$ 7Kcdq765Sps1LxxcHVGnH1TtEpf/8m6HfUbJdNbv6z195lluBpQE5KJVhzgoaiJe 4r50ErAEQyo=

----END CERTIFICATE-----

CN=Belgium Root CA2, C=BE

Type CA/QC

Status undersupervision

Status starting time 2007-10-04T10:00:00.000Z

Service digital identity (X509)

Version 3

Serial number 3098404661496965511

Signature algorithm SHA1withRSA

Issuer CN=Belgium Root CA2, C=BE
Valid from Thu Oct 04 12:00:00 CEST 2007
Valid to Wed Dec 15 09:00:00 CET 2021
Subject CN=Belgium Root CA2, C=BE

Public key Sun RSA public key, 2048 bits

modulus:

2505202035897286929802442931365977782136110157856742564234839581 64367953802839672248769831300340203168205752163553604166050045334718830407023741150537135469000352360279650474826843696574001315 552436395329655960576829372646274868386780797947622304693692109500887975787577283413392923336546545109817976430306701793579151565262158435123606358334230710497624432217765218126527057253528859 3688668361490384043063624052887014382463758810568004079588144865 46438584605327134008224091466795027147972455421015549428678366393080491585356622044306227220916440412947986826263456222477031966

11536459503012648921426461410998536799349

public exponent: 65537

Authority key

Subject key identifier 858aebf4c5bbbe0e590394ded6800115e3109c39 858aebf4c5bbbe0e590394ded6800115e3109c39

identifier Key usage

keyCertSign

cRLSign

CA=true; PathLen=unlimited Basic constraints

SHA1 Thumbprint 51cca0710af7733d34acdc1945099f435c7fc59f

SHA256 Thumbprint 9f9744463be13714754e1a3becf98c08cc205e4ab32028f4e2830c4a1b2775b8

Extension (critical: true)

Qualifications

Qualifier: QCSSCDStatusAsInCert

Assert: atLeastOne

Policy OID: 2.16.56.9.1.1.2.1 Policy OID: 2.16.56.9.1.1.7.1

Additional service information

RootCA-QC

```
The decoded certificate:
Version: V3
 Subject: CN=Belgium Root CA2, C=BE
Signature Algorithm: SHA1withRSA, OID = 1.2.840.113549.1.1.5
Key: Sun RSA public key, 2048 bits
modulus:
25052020358972869298024429313659777821361101578567425642348395816436795380283967224876983130034020316820575216355360416605904533471883040702374115053713546900035236027965047
10497624432217765218126527057253528859368866836149038404306362405288701438246375881056800407958814486546438584605327134008224091466795027147972455421015549428678366393080491
58535662204430622722091644041294798682626345622247703196611536459503012648921426461410998536799349
public exponent: 65537
Validity: [From: Thu Oct 04 12:00:00 CEST 2007
           To: Wed Dec 15 09:00:00 CET 20211
Issuer: CN=Belgium Root CA2, C=BE
SerialNumber: [
                2affbe9f a2f0e987]
Certificate Extensions: 6
[1]: ObjectId: 2.16.840.1.113730.1.1 Criticality=false
NetscapeCertType [
 SSL CA
 S/MIME CA
 Object Signing CA]
[2]: ObjectId: 2.5.29.14 Criticality=false
{\tt SubjectKeyIdentifier}\ [
KeyIdentifier [
0000: 85 8A EB F4 C5 BB BE 0E 59 03 94 DE D6 80 01 15 ......Y.....
0010: E3 10 9C 39
[3]: ObjectId: 2.5.29.35 Criticality=false
AuthorityKeyIdentifier [
KeyIdentifier [
```

0000: 85 8A EB F4 C5 BB BE 0E 59 03 94 DE D6 80 01 15Y.....

```
0010: E3 10 9C 39
]
[4]: ObjectId: 2.5.29.32 Criticality=false
CertificatePolicies |
 [CertificatePolicyId: [2.16.56.9.1.1]
[PolicvOualifierInfo: [
 qualifierID: 1.3.6.1.5.5.7.2.1
 qualifier: 0000: 16 20 68 74 74 70 3A 2F 2F 72 65 70 6F 73 69 74 . http://reposit
0010: 6F 72 79 2E 65 69 64 2E 62 65 6C 67 69 75 6D 2E ory.eid.belgium.
0020: 62 65
11 1
[5]: ObjectId: 2.5.29.15 Criticality=true
KeyUsage [
Key_CertSign
Crl_Sign
[6]: ObjectId: 2.5.29.19 Criticality=true
BasicConstraints:[
PathLen: 2147483647
Algorithm: [SHA1withRSA]
 Signature:
0000: 51 D8 85 DD BB 57 6F CC A0 6C B5 A3 20 9C 53 09 Q....Wo..l.. .S.
0010: F3 4A 01 0C 74 BF 2B B3
                               9A 9A BA 18 F2 0B 88 AC .J..t.+....
0020: 1C B3 33 AF CE E5 13 01
                               27 92 84 58 9A 10 B9 F7
                                                         ..3.....'..X....
                               E8 51 EF BF FA 4A 25 A7 ...kt....Q...J%.
0030: CC 14 92 6B 74 16 8A 96
0040: 89 B6 63 2B 5D 94 58 D1
                               CF 11 72 B6 1E B9 39 41 ..c+1.X...r...9A
0050: 16 4D 29 BC 35 53 0B DA
                               DE 8E 0E CD A9 95 77 25 .M).5S......w%
0060: CA 94 5A E9 B2 69 AE D8
                                CO 13 BE 98 FC 96 9C 84
                               20 A4 A4 36 68 6B 4D 60 .U..<....6hkM
0070: 7F 55 13 E6 3C 87 E3 BC
                                2E B9 41 8A D3 65 D3 84 f.....f..A..e..
0090: 80 02 EF 50 1D 5E 46 DC
                                F7 C9 BA B5 34 7C 2A F3 ...P.^F....4.*.
                               CD 11 E7 FD 14 02 83 66 ..__T..M......f
CE 14 FE BB 1F A7 61 F7 ^...._a.
00A0: C6 D8 5F 5F 54 9D DB 4D
00B0: 5E C8 A6 00 12 A0 5F BE
00C0: AB 4A F1 06 14 9F CA 49
                               42 C2 A9 BC ED 85 B1 AB .J....IB.....
00D0: 81 41 E6 0D C5 42 69 53
                               87 39 9D 4C 1F 00 0E 3E .A...BiS.9.L...>
00E0: 07 0D 75 57 44 A8 53 B4
00F0: 46 6E 14 5D 5E 47 53 8D 78 4D E0 27 BB 8E 85 76 Fn.]^GS.xM.'...v
```

The certificate in PEM format:

---BEGIN CERTIFICATE----

MIIDjjCCAnagAwIBAgIIKv++n6Lw6YcwDQYJKoZIhvcNAQEFBQAwKDELMAkGA1UE WhcNMiExMiE1MDqwMDAwWiAoMOswCOYDVOOGEwJCRTEZMBcGA1UEAxMOOmVsZ2l1 bSBSb290IENBMjCCASIwDQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBAMZzQh6S /3UPi790hqc/7bIYLS2X+an7mEoj39WN4IzGMhwWLQdCli22bi+n9fzGhYJdld61 IgDMqFNAn68KNaJ6x+HK92AQZw6nUHMXU5WfIp8MXW+2QbyM69odRr2nlL/zGsvU +400HiPIltfsiFPekx40HopOcSZYtF3CiInaYNKJIT/e1wEYNm7hLHADBGXvmAYr XR5i3FVr/mZkIV/4L+HXmymvb82fqgxG0YjFnaKVn6w/Fa7yYd/vw2uaItgscf1Y HewApDgglVrH1Tdjuk+bqv5WRi5j2Qsj1Yr6tSPwiRuhFA0m2kHw0I8w7QUmecFLine American AmeriTaG4flVSOmlGhHUCAwEAAa0BuzCBuDA0BaNVH08BAf8EBAMCA0YwDwYDVR0TA0H/ BAUWAWEB/zBCBgNVHSAE0zA5MDcGBWA4CQEBMC4wLAYIKwYBBQUHAgEWIGh0dHA6 Ly9yZXBvc2l0b3J5LmVpZC5iZWxnaXVtLmJlMB0GA1UdDgQWBBSFiuv0xbu+DlkD lN7WgAEV4xCcOTARBglahkaBhvhCAOEEBAMCAAcwHwYDVR0iBBgwFoAUhYrr9MW7 vg5ZA5Te1oABFeMQnDkwDQYJKoZIhvcNAQEFBQADggEBAFHYhd27V2/MoGy1oyCc JaeJtmMrXZRY0c8RcrYeuTlBFk0pvDVTC9reiq7NqZV3JcqUWumvaa7YwB0+mPvW nIR/VRPmPIfjvCCkpDZoa01gZhz5v6yAlGYuuUGK02XThIAC71AdXkbc98m6tTR8 KvPG2F9fVJ3bTc0R5/0UAoNmXsimABKgX770FP67H6dh96tK8QYUn8pJQsKpv02F sauB0eYNxUJpU4c5nUwfAA4+Bw11V0SoU702dmSZ3G7rPUZuFF1eR10NeE3gJ7u0 ----END CERTIFICATE----

CN=Certipost E-Trust Primary Qualified CA, O=Certipost s.a./n.v., C=BE

Type CA/QC

Status undersupervision

Status starting time 2005-07-26T10:00:00.000Z

Service digital identity (X509)

Version

Serial number 4835703278459639067624485

Signature algorithm SHA1withRSA

CN=Certipost E-Trust Primary Qualified CA, O=Certipost s.a./n.v., C=BE Issuer

Valid from Tue Jul 26 12:00:00 CEST 2005 Valid to Sun Jul 26 12:00:00 CEST 2020

Subject CN=Certipost E-Trust Primary Qualified CA, O=Certipost s.a./n.v., C=BE

Sun RSA public key, 2048 bits Public key

modulus:

2198165027276639742335246370299919491834299685174947076499863829 710198451108362985094873473925989264451780406693419632454996429131929507801877488868263056625892314811981652410138907899996057327037799082855868763511239453871155320357733059447691386874174245 6351418525550214828297591584323227847019805029382183516476456072 1350350984913304723496042939229874921930931967750335049019790482 8017572130561815887751919653650932481620948873902322540903538293 2017480465444929903218227769334668958530404811571842689601047281 9175682817566553198501338089830997047280971197474917236039149732

00214236187812432050305807187505398614653

public exponent: 65537

Subject key identifier f078f9077710bbdc1ea1ae79fb3010dbc634f817

Key usage keyCertSign

cRLSign

Basic constraints CA=true; PathLen=unlimited

SHA1 Thumbprint 742cdf1594049cbf17a2046cc639bb3888e02e33

SHA256 Thumbprint 058a40323ec8c46262c3052a5d357b91ac24d3da26351b3ff4407e99f7a4e9b4

Extension (critical: true)

Qualifications

Qualifier: QCForLegalPerson

Assert: atLeastOne

Policy OID: 0.3.2062.7.1.1.112.1 Policy OID: 0.3.2062.7.1.1.140.1 Policy OID: 0.3.2062.7.1.1.111.1

Additional service information

RootCA-QC

```
The decoded certificate:
```

Subject: CN=Certipost E-Trust Primary Qualified CA, O=Certipost s.a./n.v., C=BE

Signature Algorithm: SHA1withRSA, OID = 1.2.840.113549.1.1.5

Key: Sun RSA public key, 2048 bits

public exponent: 65537

Validity: [From: Tue Jul 26 12:00:00 CEST 2005, To: Sun Jul 26 12:00:00 CEST 2020]

Issuer: CN=Certipost E-Trust Primary Qualified CA, O=Certipost s.a./n.v., C=BE $\sim 10^{-5}$

SerialNumber: [04000000 00010552 64c425]

Certificate Extensions: 5

[1]: ObjectId: 2.16.840.1.113730.1.1 Criticality=false

NetscapeCertType [

```
SSL CA
 S/MIME CA
 Object Signing CA]
[2]: ObjectId: 2.5.29.14 Criticality=false
SubjectKeyIdentifier [
KeyIdentifier [
0010: C6 34 F8 17
[3]: ObjectId: 2.5.29.32 Criticality=false
CertificatePolicies [
[CertificatePolicvId: [0.3.2062.7.1.0.1.2.0]
[PolicyQualifierInfo: [
qualifierID: 1.3.6.1.5.5.7.2.1
 qualifier: 0000: 16 22 68 74 74 70 3A 2F 2F 77 77 77 2E 65 2D 74 ."http://www.e-t
0010: 72 75 73 74 2E 62 65 2F 43 50 53 2F 51 4E 63 65 rust.be/CPS/QNce
]] ]
[4]: ObjectId: 2.5.29.15 Criticality=true
KeyUsage [
Key CertSign
Crl_Sign
[5]: ObjectId: 2.5.29.19 Criticality=true
BasicConstraints:[
CA:true
PathLen: 2147483647
Algorithm: [SHA1withRSA]
Signature:
0000: 6C E1 D8 5F 74 58 E9 70
                            49 D6 CA 0D 2C 58 DA CA l., tX.pI...X..
0010: 64 B6 51 4F C3 06 64 01
                            E9 8A 73 1D 9E CF 46 78 d.QO..d...s...Fx
0020: BF 3B 85 86 E2 3D 4A 18
                            94 2A 81 77 6F 82 F8 6F .;...=J..*.wo..o
                            60 BB 18 80 82 95 FB F9 .."...!r`.....
0030: F4 EE 22 FC 9D 18 21 72
0040: F7 95 24 81 66 C1 B5 C3
                            B5 D2 B6 76 8B 3B 81 5C ...$.f.....v.;.\
0050: B8 A1 0E 2B 01 14 8B 80
                            09 40 EE F8 60 4C 19 E4 ...+....@..`L.
                            A4 08 C9 B4 BF 9E 50 4E ..'..c.....PN
0060: 17 CD 27 01 B3 63 12 05
0070: B5 DE 0F 92 33 66 75 D0
0080: FE 3E 2E 36 79 A1 E5 29
                             50 23 35 05 95 78 BB 9F
                                                   .>.6y..)P#5..x.
                            5C 33 CD C2 BB 7E 68 77 yd.WH',.\3....hw
0090: 79 64 DC 57 48 27 2C E2
00A0: A7 2F A3 49 17 72 E1 00
                            84 6B 7D 7A AF 39 0B 2C ./.I.r...k.z.9.,
00B0: D5 D8 57 64 32 6C 84 0A
                            6A 76 3A D3 AC CD 9D B1 ..Wd2l..jv:..
00C0: E7 37 DC EC 0C 2F C5 57
                            60 DF 88 F5 43 B1 01 64 .7.../.W`...C..d
00D0: 26 B4 27 82 10 B2 A3 50
                            EF 97 E6 7F BF 91 87 B3 &.'....P......
00E0: DB 90 A9 2A E2 7A 34 6C
                            73 49 F4 E8 8D 2E 6B 8A ...*.z4lsI....k.
```

The certificate in PEM format:

----BEGIN CERTIFICATE-----

 ${\tt MIID3jCCAsagAwIBAgILBAAAAAABBVJkxCUwDQYJKoZIhvcNAQEFBQAwXDELMAkG}$ A1UEBhMCOkUxHDAaBqNVBAoTE0NlcnRpcG9zdCBzLmEuL24udi4xLzAtBqNVBAMT JkNlcnRpcG9zdCBFLVRvdXN0IFBvaW1hcnkgUXVhbGlmaWVkIENBMB4XDTA1MDcv ${\tt NjEwMDAwMFoXDTIwMDcyNjEwMDAwMFowXDELMAkGA1UEBhMCQkUxHDAaBgNVBAoTMAkgA1UEBhMCQkUxHDAaBgNVBAoTMAkgA1UEBhMCQkUxHDAaBgNVBAOTMAkgA1UEBhMCQkUxHDAABgA1UEBhMCQkUxHDAABgNVBAOTMAkgA1UEBhMCQkUxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQkuxHDAABgA1UEBhMCQ$ E0NlcnRpcG9zdCBzLmEuL24udi4xLzAtBgNVBAMTJkNlcnRpcG9zdCBFLVRydXN0 IFBvaW1hcnkgUXVhbGlmaWVkIENBMIIBIiANBgkghkiG9w0BA0EFAA0CA08AMIIB CgKCAQEAriDSeNuaoHKcBFIlLG1S2NcniT0g4bLV+zBlay1/HGe0DucfEt8XeRi7 $\verb+tBtv+D11G55nN/Dx+g917YadAwShKHAtPLJroHNR4zWpdKUIPpSFJzYqqnJk/Hfu$ dpOccuu/Msd3A2olaakFr19aPH+sG7vS6Dx0Wc7xfFOtOK6W8KxvoTMMIVoBuiMa W6CGAtVT3EkfqDKzrztG07bvnzmz0Avneor2KPmnb1ApyHlYi0nSpdiFflbxaRV4 RBE116VUPqtmJdLb4xjxLivicSMJN2RDQnQylnfel6LploacJUQJ1AGdUX4ztwlEurope and the property of th5YCXDWRbdxiXpUupnhCdh/pWp88Kf0IDAOABo4GaMIGdMA4GA1UdDwEB/w0EAwIB BjAPBgNVHRMBAf8EBTADAQH/MB0GA1UdDgQWBBTwePkHdxC73B6hrnn7MBDbxjT4 FzBIBgNVHSAEQTA/MD0GCQ0QDgcBAAECADAwMC4GCCsGAQUFBwIBFiJodHRw0i8v d3d3LmUtdHJ1c30uYmUv01BTL1F0Y2VvdHMaMBEGCWCGSAGG+EIBA00EAwIABzAN BgkqhkiG9w0BAQUFAAOCAQEAbOHYX3RY6XBJ1soNLFjaymS2UU/DBmQB6YpzHZ7P Rni/04WG4j1KGJQqgXdvgvhv904i/J0YIXJguxiAgpX7+feVJIFmwbXDtdK2dos7 gVy4oQ4rARSLgAlA7vhgTBnkF80nAbNjEgWkCMm0v55QTrXeD5IzZnXQPecifOol cXz+Pi42eaHlKVAjNQWVeLufeWTcV0gnL0JcM83Cu35od6cvo0kXcuEAhGt9eq85 CyzV2FdkMmyECmp2Ot0szZ2x5zfc7AwvxVdg34j1Q7EBZCa0J4IQsqNQ75fmf7+R h7PbkKkq4no0bHNJ90iNLmuK3aGKf2PQv1ger8w/klAt0Q==

----END CERTIFICATE-----

Trusted List Signer

Subject OU=Ministry of Economic Affairs, O=Belgian Federal Government, C=BE,

CN=Belgian Trust List Scheme Operator

Issuer OU=Ministry of Economic Affairs, O=Belgian Federal Government, C=BE,

CN=Belgian Trust List Scheme Operator

Not before Fri Feb 26 11:42:04 CET 2010

Not after Mon Feb 24 11:42:04 CET 2020

Serial number 15681248625855287085

Version 3

Public key SHA1 Thumbprint 0e2b1b3ce368b11ae8b9221982ce69740e3dceb9

Public key SHA256

2efdccbd9b768ea9654152816c48a53857f658c50462c12f66f5d56c0961616d

Thumbprint

```
The decoded certificate:
```

```
Subject: OU=Ministry of Economic Affairs, O=Belgian Federal Government, C=BE, CN=Belgian Trust List Scheme Operator
Signature Algorithm: SHA1withRSA, OID = 1.2.840.113549.1.1.5
Key: Sun RSA public key, 2048 bits
public exponent: 65537
Validity: [From: Fri Feb 26 11:42:04 CET 2010,
           To: Mon Feb 24 11:42:04 CET 2020
Issuer: OU=Ministry of Economic Affairs, O=Belgian Federal Government, C=BE, CN=Belgian Trust List Scheme Operator
SerialNumber: [
              d99efc8a daafcf2d]
Certificate Extensions: 4
[1]: ObjectId: 2.5.29.14 Criticality=false
SubjectKeyIdentifier [
0010: 75 CC 6E 6C
[2]: ObjectId: 2.5.29.37 Criticality=false
ExtendedKeyUsages [
0.4.0.2231.3.0
[3]: ObjectId: 2.5.29.15 Criticality=false
DigitalSignature
[4]: ObjectId: 2.5.29.19 Criticality=false
BasicConstraints:[
PathLen: undefined
Algorithm: [SHA1withRSA]
Signature:
                        D5 9F E5 E2 BF DD FA E7 .%..?....
0000: A6 25 D0 FC 3F B8 08 F8
0010: A9 C1 F0 5F 2E 7B FC 54
                        B8 1A 69 D0 2B 4F 2B BE ..._..T..i.+0+.
                        1E 6B B5 A7 CD 58 B2 1B R..S....k...X.
0020: 52 F0 D2 53 FF 11 C5 BD
0030: 1C 49 23 70 0C FD FD 1C
                        33 32 5F 2E 01 6D 43 CC .I#p....32_..mC.
                        59 77 11 4F 2B 01 22 9C
0040: D1 BF F2 A0 8C BC 6D 1A
                                            ....m.Yw.0+.
0050: 48 57 D5 E2 74 07 1F 51
                        9A C7 26 6C 1C 40 FC 41 HW..t..Q..&l.@.A
0060: 57 1F 9F F8 F4 41 03 7F
                        DF 7E E1 58 BB 68 6D 00 W....A....X.hm.
0070: 1B E4 B0 D7 03 9C 6B DC
                        17 EA 1E 49 93 16 23 B5 .....k...I..#.
0080: 82 0F 66 D2 F6 D6 BF 8D
                        1A 28 3B 4A 5A DB DF 9C
0090: 86 61 95 86 25 97 BD 40
                        09 70 9F B6 D7 C5 30 4D
                                            .a..%..@.p....0M
00A0: 24 CE F8 E4 12 30 EE 6C
                        1D 5D 47 DA 91 81 63 99 $....0.l.]G...c.
00B0: 88 4F B7 8B 8D CF 9D 69
                        7D 74 B4 56 37 5B 58 DF
                                            .0....i.t.V7[X.
00C0: CC 26 B5 11 CC 1A 20 A0
                        AF 19 00 D7 04 33 0F 8C .&....
                        EB 95 53 C4 07 13 FE 01 ...l...d..S....
00D0: 96 FC 16 6C BC B2 BC 64
                        75 D5 DB FC 69 22 9F 61
00E0: E7 AF 6E BA 99 50 5B 0C
                                           ..n..P[.u...i".a
```

The certificate in PEM format:

----BEGIN CERTIFICATE----

00F0: 92 43 1B 65 1D 49 51 D5

MIID3TCCAsWgAwIBAgIJANme/Irar88tMA0GCSqGSIb3DQEBBQUAMIGGMSswKQYD VQQDE5JCZWxnaWFuIFRydXN0IExpc30gUZNoZWl1IE9wZXJhdG9yMQswCQYDVQQG EwJCRTEjMCEGA1UEChMaQwVsZ2lhbiBGZWRlcmFsIEdvdmVybmllbnQxJTAjBgNV BASTHE1pbmlzdHJ5IG9mIEVjb25vbWljIEFmZmFpcnMwHhcNMTAwMjI2MTAOMjA0 WhcNMjAwMjI0MTA0MjA0WjCBhjErMCkGA1UEAxMiQmVsZ2lhbiBUcnVzdCBMaXN0 IFNjaGVtZSBPcGVYXRvcjELMAKGA1UEBhMCQkUXIZAhBgNVBAOTGkJlbGdpYW4g RmVkZXJhbCBHb3Zlcm5tZW50MSUMIwYDVQQLExXNaW5pc3RyeSBvZiBFY29ub2lp YyBBZmZhaXJzMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAviuMAuZ4 2Bg3jIlV+lKmIFNaAgBzjDDXtP9+zqI+0f0jzBacWXR67a5hUuPggpEgPt8yGe83 dQkjmhS8hpUwZbs7WcbDgCGewT7+L5Ex4wq2sEU/9mXMbDTqyhmnxu5pDeMBfGV uBzQWWLj2ZsmRbeGEfZXbp37tT3X5ok289YbUp5ngyMrYZjlh75ncHT495JgaIVq V+y03zwJYDHeBLZDVMLcVPJX68LJ7Pbfdw0pCrf/b04AzLAMARVsWv0olMvHUIF

51 1B 2C E1 36 BC D5 42 .C.e.IQ.Q.,.6..B

FxhOenzVTEkduqtBzTicZNomw5qIdK0Lb6gWEcRbvBJzgcNauln30GgXuAlWMdVd 3SOfAWQKvRb83QIDAQABo0wwSjAJBgNVHRMEAjAAMAsGA1UdDwQEAwIHgDAdBgNVHQ4EFgQUlbMH5fNSsMsP6WsAH9C0ZXXMbmwwEQYDVR0lBAowCAYGBACRNwMAMA0G CSqGSIb3DQEBBQUAA4IBAQCmJdD8P7gI6NWf5eK/3frnqcHwXy57/FS4GmnQK08r vlLw0lP/EcW9Hmulp81YshscSSNwD03tHDMyXy4BbUPM0b/yoIy8bRpZdxFPKwEi nEhX1eJ0Bx9RmscmbBxA/EFXHp745EEDf99+4Vi7aG0AG+Sw1w0ca9wX6h5JkxYj tYIPZtL21r+NGig7Slrb35yGYZWGJZe9QAlwn7bXxTBNJM745BIw7mwdXUfakYFj mYhPt4uNz51pfXS0VjdbWN/MJrURzBogoK8ZANcEMw+MlvwWbLyyvGTrlVPEBxP+ AeevbrqZUFsMddXb/Gkin2GSQxtlHUlR1VEbL0E2vNVC ----END CERTIFICATE----

The public key in PEM format:BEGIN PUBLIC KEY..... MIIBIJANBgkqhkiG9w0BAQEFAAOCAQBAMIIBCgKCAQEAviuMAu242Bg3jIlV+lKm

1FNaAgBzjDDXtP9+zqI+0f0jzBacWXR67a5hUuPggpEgPt8yGe83dQkjmhS8hpUw Zbs7WcbDg0C6ewI7+LSEx4wq2sEU/9mXMbDTqyhmnxu5p0eM8fGVuBzQWWLj2Zsm $RbeGEfZXbp37tT3X5ok289YbUp5ngyMrYZjlh75ncHT495JgaIVqV+y03zwJvTDH\\ eBLZDvMucvPJX68lu7Pbfdw0pCrf/b04AzLAMARVsWv0olMvHUlFfxh0enzVTEkd$ ${\tt uqtBzTicZNomw5qIdK0Lb6gWEcRbvBJzgcNauln30GgXuA1WMdVd3S0fAWQKvRb8}$ 3QIDAQAB

-----END PUBLIC KEY-----