

CA Certificate Chain

Total number of certificates: 2

WidePoint ORC ECA 7 CA Signing Certificate:

Certificate Subject DN

CN=WidePoint ORC ECA 7, OU=Certification Authorities, OU=ECA, O=U.S. Government, C=US

Certificate in base64 encoded format

-----BEGIN CERTIFICATE-----

```
MIIEzDCCA7SgAwIBAgICAjQwDQYJKoZIhvcNAQELBQAwTTElMAkGA1UEBhMCVVMx
GDAWBgNVBAoTD1UuUy4gR292ZXJubWVudDEMMAoGA1UECxMDRUNBMRYwFAYDVQQD
Ew1FQ0EgUm9vdCBDQSA0MB4XDTE4MDYwNTEzNDkyOFoXDTI0MDYwNTEzNDkyOFow
dzELMAkGA1UEBhMCVVMxGDAWBgNVBAoTD1UuUy4gR292ZXJubWVudDEMMAoGA1UE
CxMDRUNBMSlwlAYDVQQLExiDZXJ0aWZpY2F0aW9uIEF1dGhvcml0aWVzMRwwGgYD
VQQDEsNXaWRIUG9pbmQgT1JDIEVDQSA3MIIIBjANBgkqhkiG9w0BAQEFAAOCAQ8A
MIIBCgKCAQEAvtuFaXd3+8szVmamJpze7qJ5q85J/5mhRhtAh5C80939wfimaaf
dwQS1Ut3MBG3yW1+cMPvAtEojyw+AMkg1c7SdmuFhTWfGqHABmknXOj8VhWfkp/
02nMu8XTgx6qiZAI4IL14hx8rT30aqtquzPBeZn+qVziYAsDljiMRaYOXVxVLEeG
gv2zcIM9z4EJRuCutfDBBB7BCZEyxvMzzAyJWfyGSs9Jj0feRvoOXQe+Jw945TRfT
BPDThQHM26XQPN18GmZjyZg2DFYcUEseJbaEUILMeWIFMMh2xMF0423s/ZAhjFPS
n/5FyS2esiUvZthM9NzkmaXAqJbdSO0QNQIDAQABo4IBijCCAYYwHwYDVR0jBBgw
FoAUM1ulb3pVYCUbSyYUzHm/SrQLMr0wHQYDVR0OBBYEFgi8UDR5OeAq7ONDKPIF
pGN6YKjijMA4GA1UdDwEB/wQEAwIBhjBrBgNVHSAEZDBiMAwGCmCGSAFIawIBDAQw
DAYKYIZIAWUDAgEMBTAMBgpgghkgBZQMCAQwJMAwGCmCGSAFIawIBDAowEgYDVR0T
AQH/BAGwBgEB/wIBADAMBgNVHSQEBTADgAEAMDcGA1UdHwQwMC4wLkAqoCiGJmh0dHA6Ly9j
cmwuZGlzYS5taWwvY3JsL0V0DQVJPT1RDQTQuY3JsMGwGCCsGAQUFBwEBBGAwXjA6
BgggrBgEFBQcwAoYuaHR0cDovL2NyYkC5kaXNhLm1pbC9pc3N1ZWROby9FQ0FST09U
Q0E0X0IULnA3YzAgBggrBgEFBQcwAYYUaHR0cDovL29jc3AuZGlzYS5taWwvDQYJKo
ZIhvcNAQELBQADggEBAFgESRlaRWruZkcaANgEV8BJPbn0qkXtDuMciUsg7nN
Fbrkr2b4yqW9w3J8W3+FXgiz1Q0zytql4oNsvr1WIgyXklikJ7IZxVVOPRHE7NCn
biHhln+/UiJXgDloU/OJERwXfEmY8vOp3r8ZA9B+9G4GP7LWkLuVHahuBRAR9bjJ
PK1y8zF0dvZ2jt7WZuIHZfVGN8TjTpmIANHGteRhbG5uFGEqBIINHL8SkSjgT7N4
YKSSLwM2GZnVBlqwfilWBGzOgm6INBRc7R5912ctWBxQG11QtV50xxg+OtiTwZbG
/Zjk2D0xIEQoRN+8rjFR+TgYaKta3jEf4gUDM01FDGs=
```

-----END CERTIFICATE-----

Certificate Contents

Certificate:

Data:

Version: 3 (0x2)

Serial Number: 564 (0x234)

Signature Algorithm: sha256WithRSAEncryption

Issuer: C=US, O=U.S. Government, OU=ECA, CN=ECA Root CA 4

Validity

Not Before: Jun 5 13:49:28 2018 GMT

Not After : Jun 5 13:49:28 2024 GMT

Subject: C=US, O=U.S. Government, OU=ECA, OU=Certification Authorities, CN=WidePoint ORC

ECA 7

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

Public-Key: (2048 bit)

Modulus:

00:be:db:85:69:77:77:fb:cb:33:56:66:a6:26:9c:
ec:7b:ba:89:e6:af:39:27:fe:66:85:18:6d:02:1e:
42:f3:4f:77:f7:07:e2:99:a6:9f:77:04:12:d5:4b:
77:30:11:b7:c9:6d:7e:70:c3:ef:7c:0b:44:a2:3c:
b0:f8:03:24:83:57:3b:49:d9:ae:16:14:d6:16:04:
21:00:19:a4:9d:73:a3:f1:58:56:7e:4a:7f:d3:69:
cc:bb:c5:d3:83:1e:aa:89:90:25:e0:82:f5:e2:1c:
7c:ad:3d:f4:6a:ab:6a:bb:33:c1:79:99:fe:a9:5c:
e2:60:0b:03:96:38:8c:45:a6:0e:5d:5c:55:2c:47:
86:82:fd:b3:70:83:3d:cf:81:09:46:e0:ad:7c:30:
41:07:b0:42:64:4c:b1:bc:cc:f3:03:22:56:7f:21:
92:b3:d2:63:d1:f7:91:be:83:97:41:ef:89:c3:de:
39:4d:17:d3:04:f0:d3:85:01:cc:db:a5:d0:3c:dd:
7c:1a:66:63:c9:98:36:0c:56:1c:50:4b:1e:25:b6:
84:52:52:cc:79:69:45:30:c8:76:c4:c1:74:e3:6d:
ec:fd:90:21:8d:f3:d2:9f:fe:45:c9:2d:9e:b2:55:
2f:66:d8:4c:f4:dc:e4:99:a5:c0:a8:96:dd:48:ed:
10:35

Exponent: 65537 (0x10001)

X509v3 extensions:

X509v3 Authority Key Identifier:

keyid:33:5B:A5:6F:7A:55:60:2B:81:4B:26:14:CC:79:BF:4A:BA:8B:32:BD

X509v3 Subject Key Identifier:

62:3C:50:34:79:39:E0:2A:EC:E3:43:28:F9:45:A4:63:7A:60:A8:E3

X509v3 Key Usage: critical

Digital Signature, Certificate Sign, CRL Sign

X509v3 Certificate Policies:

Policy: 2.16.840.1.101.3.2.1.12.4

Policy: 2.16.840.1.101.3.2.1.12.5

Policy: 2.16.840.1.101.3.2.1.12.6

Policy: 2.16.840.1.101.3.2.1.12.7

Policy: 2.16.840.1.101.3.2.1.12.8

Policy: 2.16.840.1.101.3.2.1.12.9

Policy: 2.16.840.1.101.3.2.1.12.10

X509v3 Basic Constraints: critical

CA:TRUE, pathlen:0

X509v3 Policy Constraints:

Require Explicit Policy:0

X509v3 CRL Distribution Points:

Full Name:

URI:<http://crl.disa.mil/crl/ECAROOTCA4.crl>

Authority Information Access:

CA Issuers - URI:http://crl.disa.mil/issuedto/ECAROOTCA4_IT.p7c

OCSP - URI:<http://ocsp.disa.mil>

Signature Algorithm: sha256WithRSAEncryption

01:60:11:24:65:69:15:ab:b9:99:1c:68:03:60:11:5f:01:24:
f0:67:d2:a9:17:b4:3b:8c:72:25:2c:83:b9:cd:15:ba:e4:af:
66:f8:ca:a5:bd:c3:72:7c:5b:7f:85:5e:08:b3:d5:0d:33:ca:
da:a5:e2:83:6c:be:bd:56:22:0c:97:90:88:a4:27:b2:19:c5:
55:4e:3d:11:c4:ec:d0:a7:6e:21:e1:96:7f:bf:52:22:57:80:
32:28:53:f3:89:11:1c:17:7c:49:98:f2:f3:a9:de:bf:19:03:

d0:7e:f4:6e:06:3f:b2:d6:90:bb:95:1d:a8:6e:05:10:11:f5:
b8:c9:3c:ad:72:f3:31:74:76:f6:76:8e:de:d6:66:e2:07:64:
55:46:37:c4:e3:4e:99:a5:00:d1:c6:b5:e4:61:6c:6e:6e:14:
61:2a:04:89:4d:1c:bf:12:91:22:60:4f:b3:78:60:a4:ac:2f:
03:36:19:99:d5:06:5a:b0:7e:29:56:04:6c:ce:82:6e:88:34:
14:5c:ed:1e:7d:d7:67:2d:58:1c:50:1b:5d:50:b5:5e:74:c7:
18:3e:3a:d8:93:c1:96:c6:fd:98:e4:d8:3d:31:94:44:28:44:
df:bc:ae:31:51:f9:38:18:68:a4:da:de:31:1f:e2:05:03:33:
4d:45:0c:6b

ECA Root CA 4 CA Certificate:

Certificate Subject DN

CN=ECA Root CA 4, OU=ECA, O=U.S. Government, C=US

Certificate in base64 encoded format

-----BEGIN CERTIFICATE-----

```
MIIDVzCCAj+gAwIBAgIBATANBgkqhkiG9w0BAQsFADBNMQswCQYDVQQGEwJVUzEY
MBYGA1UEChMPVS5TLiBHb3Zlcm5tZW50MQwwCgYDVQQLEwNFQ0ExFjAUBgNVBAMT
DUVDQSBSb290IENBIDQwHhcNMTIwMzIwMTYxMzA0WWhcNMjMjMjMwMTYxMzA0WjBN
MQswCQYDVQQGEwJVUzEYMBYGA1UEChMPVS5TLiBHb3Zlcm5tZW50MQwwCgYDVQQQL
EwNFQ0ExFjAUBgNVBAMTDUVDQSBSb290IENBIDQwggiMA0GCSqGSIb3DQEBAQUA
A4IBDwAwggEKAoIBAQC4cGIXvYBaQcAZ5pXn1IIT3Cw4S4qCyhyIXY5+PAxvZeHa
uBxxGLbeFAh528aKme36ld1iGAAt8BTMWk53nvLodxQDFMap/blSoGf/Hzd60HCP
ltdwJA4tnUVePAAT7qA6MRqQIFdl5DAXxskEed0e/6DI71+sACU6Ab+WnASVjq1S
s5Fw9PTsM+EPCBeCulYKPznR3JA5xz65MymD2QroE+BePQ0lgMRszywugCrQLUBJ
G8SctvM2KSbsMQBzGs13la3LEvxFCk26DFc3vVcj3ZbqwHWz+fNJ6v0tHNQQjQl
h1daHISZO5sB6sXdlaOwcrbsckEqqoX68ak4IBUHAqMBAAGjQjBAMB0GA1UdDgQW
BBQzW6VvelVgK4FLJhTMeB9KuosityTAOBgNVHQ8BAf8EBAMCAYYwDwYDVR0TAQH/
BAUwAwEB/zANBgkqhkiG9w0BAQsFAAOCAQEAt9hela+tXpxF4rx10UCFfe6IMXI
k2kIXhVxOU7B0djoe007jRnRwCDf502ril1/gCCNje8CalrVAJwhtwWs57ePsZRT
Pblu+PfogIXRKCRIgOUWx7BEC9OEUKmJyNr7XvYBhtk3v/1uuFDIDeY8dPolbo/y
jMPfULefKPiUByazL52bkra9LUoNaEdcpF2GiDvOshEkMAdBnuwzBjB5rJbT0gV
WiOjaskGWnyMiERxiZrnat49Ca/Ry7yVpwhXjGhMRHTcfCD71DH7nlsOyNj+Jpm
bg4plButJc25uL8b0nNAAMNNrIk8XOgg4kOGnSYqJQ8tnTslE4CFesxbg==
-----END CERTIFICATE-----
```

Certificate Contents:

Certificate:

Data:

Version: 3 (0x2)

Serial Number: 1 (0x1)

Signature Algorithm: sha256WithRSAEncryption

Issuer: C=US, O=U.S. Government, OU=ECA, CN=ECA Root CA 4

Validity

Not Before: Mar 20 16:13:04 2012 GMT

Not After : Dec 30 16:13:04 2029 GMT

Subject: C=US, O=U.S. Government, OU=ECA, CN=ECA Root CA 4

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

Public-Key: (2048 bit)

Modulus:

```
00:b8:70:69:57:bd:80:5a:41:c0:19:e6:95:e7:d4:
82:13:dc:2c:38:4b:8a:82:ca:1c:88:5d:8e:7e:3c:
0c:6f:65:e1:da:b8:1c:71:18:b6:de:14:08:79:db:
c6:8a:99:ed:fa:21:dd:62:18:00:2d:f0:14:cc:5a:
4e:77:9e:f2:e8:77:14:03:14:c6:a9:fd:b2:12:a0:
67:ff:1f:37:7a:d0:70:8f:96:d7:70:24:0e:2d:9d:
45:5e:3c:00:13:ee:a0:3a:31:1a:90:20:57:65:e4:
30:17:c6:c9:04:79:dd:1e:ff:a0:c8:ef:5f:ac:00:
25:3a:01:bf:96:9c:04:95:8e:ad:52:b3:91:70:f4:
f4:ec:33:e1:0f:08:17:82:b8:86:0a:3f:39:d1:dc:
90:39:c7:3e:b9:33:29:83:d9:0a:e8:13:e0:5e:3d:
0d:25:80:c4:6c:cf:2c:2e:80:2a:d0:2d:40:49:1b:
```

c4:9c:b6:f3:36:29:26:ec:31:00:73:1a:cd:77:95:
ad:e5:2c:4b:f1:14:29:36:e8:31:5c:de:f5:5c:8f:
76:5b:ab:01:d6:cf:e7:cd:27:ab:f4:b4:73:50:42:
34:25:87:57:5a:1e:54:99:3b:9b:01:ea:c5:dd:95:
a3:b0:72:b6:ec:70:a1:2a:aa:85:fa:f1:a9:38:94:
15:07

Exponent: 65537 (0x10001)

X509v3 extensions:

X509v3 Subject Key Identifier:

33:5B:A5:6F:7A:55:60:2B:81:4B:26:14:CC:79:BF:4A:BA:8B:32:BD

X509v3 Key Usage: critical

Digital Signature, Certificate Sign, CRL Sign

X509v3 Basic Constraints: critical

CA:TRUE

Signature Algorithm: sha256WithRSAEncryption

b6:1f:61:78:86:be:b5:7a:71:17:8a:f1:d7:45:02:15:f7:ba:
20:c5:e5:93:69:25:5e:15:71:39:4e:c1:d1:d8:e8:7b:43:bb:
8d:19:d1:c0:20:df:e7:4d:ab:8a:5d:7f:80:20:8d:8d:ef:02:
68:8a:d5:00:9c:21:b7:05:ac:e7:b7:8f:b1:94:53:3d:b9:6e:
f8:f7:e8:82:55:d1:28:24:65:80:e5:16:c7:b0:44:0b:d3:84:
52:43:23:c8:da:fb:5e:f6:01:86:d9:37:bf:fd:6e:b8:50:c8:
0d:e6:3c:74:fa:0b:6e:8f:f2:8c:c3:df:50:b7:9f:28:f8:ae:
50:1c:9a:cc:be:76:6e:4a:da:f4:b5:28:35:a1:1d:72:91:76:
1a:20:ef:3a:c8:44:90:c0:1d:06:7b:b0:cd:b8:c1:e6:b2:5b:
4f:48:15:5a:23:a3:6a:c9:06:5a:7c:8c:88:44:71:89:9a:e7:
6a:de:3d:09:af:d1:cb:bc:95:a7:08:57:8e:51:a1:31:11:d3:
71:f0:83:ef:50:c7:ee:79:6c:3b:23:63:f8:9a:66:6e:0e:29:
20:1b:ad:25:cd:b9:b8:bf:1b:d2:73:40:00:c3:4d:ac:89:64:
f1:73:a0:83:89:0e:1a:74:98:a8:94:3c:b6:74:ec:94:4e:02:
15:eb:31:6e