

CA Certificate Chain

Total number of certificates: 2

ORC ECA HW 3 Signing Certificate:

Certificate Subject DN

CN=ORC ECA HW 3,OU=Certification Authorities,OU=ECA,O=U.S. Government,C=US

Certificate in base64 encoded format

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

```
MIIKzCCBHugAwIBAgIBCDANBgkqhkiG9w0BAQUFADBNMQswCQYDVQQLGEwJVUzEY
MBYGA1UEChMPVS5TLiBHb3Zlcm5tZW50MQwwCgYDVQQLLEwNFQ0ExFjAUBGjNVBAMT
DUVDQSBsb290IENBIDlwHhcNMDgwNjExMTM0MzQ2WWhcNMTQwNjEwMTM0MzQ2WjBw
MQswCQYDVQQLGEwJVUzEYMBYGA1UEChMPVS5TLiBHb3Zlcm5tZW50MQwwCgYDVQQL
EwNFQ0ExljAgBgNVBAsTGUNlcnRpZmljYXRpb24gQXV0aG9yaXRpZXMxFTATBgNV
BAMTDE9SQyBFQ0EgSFcgMzCCASlwdQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEB
AKEEoVUrlQBliSQD6keVM9lkrLTFNYc+qzJQgSxchbkojwJk3rWz9CcyZQPs0IFW
++tbvmaWcNnTJBb6a4x/nGwF8n47EFrMcBJEbzT0eF9SD52H0i4711HPo5ykkCi/
/QLkUVo1NZGYGGGJY/6X0gyZwkyaO5cR7ny4a5AWqFkhF1MKNpRqrh7xJUagtzmM
0JMN17QNhkCuoO57VTHuJmL8jPpwXHzakkU6ttoF+CARzm0Db5v3jrdggBUAfswg
Y3jkoeZZPa3TzA1Eoahtgz2zlT8qdlWoiTI/kXlaw27CryAGyuU0PiTfQdpDxTtN
wvdrz2Q6HG5V4ULKdBCCEkCAwEAaOAlkwggJVMB0GA1UdDgQWBbQ1AJhC3e3n
Hg/HwMduaKbGhft9BzAfBgNVHSMEGDAWgBTt5lfQJ8RQ5oQ698z36zpJ/FJOITAO
BgNVHQ8BAf8EBAMCAYYwEgYDVR0TAQH/BAgwBgEB/wIBADAzBgNVHSAELDAqMAwG
CmCGSAFIAwIBDAEwDAYKYIZIAWUDAgEMAJAMBgpgghkgBZQMCAQwDMIHIBGNVHR8E
gcAwgb0wNKAyoDCGLmh0dHA6Ly9jcmwuZGlzYS5taWwvZ2V0Y3JsP0VDQSUyMFJv
b3QIMjBDQSUyMDIwY290EIMjAyJTJj3UIM2RFQ0EIMmNvJTNkVS5TLiUyMEdv
dmVybm1lbnQIMmNjJTNkVVM/Y2VydGlmaWNhdGVScXZvY2F0aW9uTGldZDtiaW5h
cnkwge4GCCsGAQUFBwEBBIBHMIHeMD8GCCsGAQUFBzACHjNodHRwOi8vY3JsLmRm
c2EubWlsL2dldElzc3VIZFRvP0VDQSUyMFJvY290EIMjAyJTJj3UIMjBDQSUyMDIw
Y290EIMjAyJTJj3UIM2RFQ0EIMmNvJTNkVS5TLiUyMEdvdmVybm1lbnQIMmNjJTNk
VVM/Y0FDZXJ0aWZpY2F0ZTtiaW5hcnksY3Jvc3NDZXJ0aWZpY2F0ZVZBhaXI7Ymlu
YXJ5MA0GCSqGSIb3DQEBBQUAA4IBAQCRRAGnqfPW4dqf0I32c8C9Dv949Ywg4CQG
i0wAZx/fLTfXn2UuZL819zjk0IC5tr6buaLY+Tme7eQo9SAelJomWXUubzuUSyvo+
yLi6YrIB41k1K0S8AWCYDjgZDHjXuzWMglUllaNL96ZGTA2NBdS4KFG6Bdyt4eJt
HG0YU06rLyaf1vRvowEwVAfohJ8rsZObiUC2lavP38oKaWuovDCoACyhAgCH1jCj
ct/7+2vNbqJPGcUkU1IR05bEUKFg4NULdZc5t0QEjGibljHwmfV5jF3zmEKN6EB5
sPPzTfE7pEDoompEaw9fyUGFDQhD1WHQ5erqujF4WC8C3VakCKhQ
```

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

Certificate Contents

Certificate:

Data:

Version: v3

Serial Number: 0x8

Signature Algorithm: SHA1withRSA - 1.2.840.113549.1.1.5

Issuer: CN=ECA Root CA 2,OU=ECA,O=U.S. Government,C=US

Validity:

Not Before: Wednesday, June 11, 2008 1:43:46 PM GMT

Not After: Tuesday, June 10, 2014 1:43:46 PM GMT

Subject: CN=ORC ECA HW 3,OU=Certification Authorities,OU=ECA,O=U.S. Government,C=US

Subject Public Key Info:

Algorithm: RSA - 1.2.840.113549.1.1.1

Public Key:

Exponent: 65537

Public Key Modulus: (2048 bits) :

A1:04:A1:55:2B:21:00:65:89:24:03:EA:47:95:33:D2:
24:AC:B4:C5:35:87:3E:AB:32:50:81:2C:5C:85:B9:28:
8F:02:64:DE:B5:B3:F4:27:32:65:03:EC:D0:81:56:FB:
EB:5B:BE:66:96:70:D9:D3:24:16:FA:6B:8C:7F:9C:6C:
05:F2:7E:3B:10:5A:CC:70:12:44:6F:34:F4:78:5F:52:
0F:9D:87:D2:2E:3B:D7:51:CF:A3:9C:A4:90:28:BF:FD:
02:E4:51:5A:35:35:91:98:18:61:89:63:FE:97:D2:0C:
99:C2:4C:9A:3B:97:11:EE:7C:B8:6B:90:16:A8:59:21:
17:53:0A:36:94:6A:AE:1E:F1:25:46:A0:B7:39:8C:D0:
93:0D:D7:B4:0D:86:40:AE:A0:EE:7B:55:31:EE:26:62:
FC:8C:FA:70:5C:7C:DA:92:45:3A:B6:DA:05:F8:20:11:
CE:6D:03:6F:9B:F7:8E:B7:60:80:15:00:7E:CC:20:63:
78:E4:A1:E6:59:3D:AD:D3:CC:0D:44:A1:A8:6D:83:3D:
B3:95:3F:2A:74:85:A8:89:39:7F:91:79:5A:C3:6E:C2:
AF:20:06:CA:E5:34:3E:24:DF:41:DA:43:C5:3B:4D:C2:
FB:DD:AF:3D:90:E8:71:B9:57:85:0B:29:D0:42:08:49

Extensions:

Identifier: Subject Key Identifier - 2.5.29.14

Critical: no

Key Identifier:

35:00:98:42:DD:ED:E7:1E:0F:C7:C0:C7:6E:68:A6:C6:
85:FB:7D:07

Identifier: Authority Key Identifier - 2.5.29.35

Critical: no

Key Identifier:

ED:E4:87:D0:27:C4:50:E6:84:3A:F7:CC:F7:EB:3A:49:
FC:52:4E:21

Identifier: Key Usage: - 2.5.29.15

Critical: yes

Key Usage:

Digital Signature
Key CertSign
Crl Sign

Identifier: Basic Constraints - 2.5.29.19

Critical: yes

Is CA: yes

Path Length Constraint: 0

Identifier: CertificatePolicies - 2.5.29.32

Critical: no

Value:

30:2A:30:0C:06:0A:60:86:48:01:65:03:02:01:0C:01:
30:0C:06:0A:60:86:48:01:65:03:02:01:0C:02:30:0C:
06:0A:60:86:48:01:65:03:02:01:0C:03

Identifier: CRLDistributionPoints - 2.5.29.31

Critical: no

Value:

30:81:BD:30:34:A0:32:A0:30:86:2E:68:74:74:70:3A:
2F:2F:63:72:6C:2E:64:69:73:61:2E:6D:69:6C:2F:67:
65:74:63:72:6C:3F:45:43:41:25:32:30:52:6F:6F:74:
25:32:30:43:41:25:32:30:32:30:81:84:A0:81:81:A0:

7F:86:7D:6C:64:61:70:3A:2F:2F:63:72:6C:2E:67:64:
73:2E:64:69:73:61:2E:6D:69:6C:2F:63:6E:25:33:64:
45:43:41:25:32:30:52:6F:6F:74:25:32:30:43:41:25:
32:30:32:25:32:63:6F:75:25:33:64:45:43:41:25:32:
63:6F:25:33:64:55:2E:53:2E:25:32:30:47:6F:76:65:
72:6E:6D:65:6E:74:25:32:63:63:25:33:64:55:53:3F:
63:65:72:74:69:66:69:63:61:74:65:52:65:76:6F:63:
61:74:69:6F:6E:4C:69:73:74:3B:62:69:6E:61:72:79

Identifier: Authority Info Access: - 1.3.6.1.5.5.7.1.1

Critical: no

Access Description:

Method #0: 1.3.6.1.5.5.7.48.2

Location #0: URIName: http://crl.disa.mil/getIssuedTo?ECA%20Root%20CA%202

Method #1: 1.3.6.1.5.5.7.48.2

Location #1: URIName:

ldap://crl.gds.disa.mil/cn%3dECA%20Root%20CA%202%2cou%3dECA%2co%3dU.S.%20Government%
2cc%3dUS?cACertificate;binary,crossCertificatePair;binary

Signature:

Algorithm: SHA1withRSA - 1.2.840.113549.1.1.5

Signature:

91:44:01:A7:A9:F3:D6:E1:DA:9F:D0:8D:F6:73:C0:BD:
0E:FF:78:F5:8C:20:E0:24:06:8B:4C:00:67:1F:DF:2D:
37:D7:9F:65:2E:64:BF:35:F7:38:E4:D0:80:B9:B6:BE:
9B:B9:A2:D8:F9:39:9E:ED:E4:28:F5:20:1E:94:9A:26:
59:75:1B:CE:E5:12:CA:FA:3E:C8:B9:7A:62:B2:01:E3:
59:35:2B:44:BC:01:60:98:0E:38:19:0C:78:D7:BB:35:
8C:82:55:25:95:A3:4B:F7:A6:46:4C:0D:8D:05:D4:B8:
28:51:BA:05:DC:AD:E1:E2:6D:1C:6D:18:53:4E:AB:2F:
26:9F:D6:F4:6F:A3:01:30:54:07:E8:84:9F:2B:B1:93:
9B:89:40:B6:95:AB:CF:DF:CA:0A:69:6B:A8:BC:30:A8:
00:2C:A1:02:00:87:D6:30:A3:72:DF:FB:FB:6B:CD:6E:
A2:4F:19:C5:24:53:52:11:D3:96:C4:50:A1:60:E0:D5:
0B:75:97:39:B7:44:04:8C:69:5B:96:31:F0:99:F5:79:
8C:5D:F3:98:42:8D:E8:40:79:B0:F3:F3:4D:F1:3B:A4:
40:E8:A2:6A:44:6B:0F:5F:C9:41:85:0D:08:43:D5:61:
D0:E5:EA:EA:BA:31:78:58:2F:02:DD:56:A4:08:A8:50

ORC ECA Root CA 2 Certificate:

Certificate Subject DN

CN=ECA Root CA 2,OU=ECA,O=U.S. Government,C=US

Certificate in base64 encoded format

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

```
MIIEOjCCAyKgAwIBAgIBBTANBgkqhkiG9w0BAQUFADBMMQswCQYDVQQGEwJVUzEY
MBYGA1UEChMPVS5TLiBHb3Zlcm5tZW50MQwwCgYDVQQLEwNFQ0ExFjAUBGNVBAMT
DUVDQSBSb290IENBIDlwHhcNMDgwNDA0MTQyNDQ5WhcNMjgwMzEwMTQyNDQ5WjBN
MQswCQYDVQQGEwJVUzEYMBYGA1UEChMPVS5TLiBHb3Zlcm5tZW50MQwwCgYDVQQQL
EwNFQ0ExFjAUBGNVBAMTDUVDQSBSb290IENBIDlwggEiMA0GCSqGSIb3DQEBAQUA
A4IBDwAwggEKAoIBAQCzkNge75rtbkexRmFGjaNWCJxKMsdF8tKkpGa+fj2XgO/p
12vp4MA7jeL4EvoTNaTNWoaLsNAvNiz3Be2Hb6cwF9AWxlhGvZX5Vhql1E4eflgf
G6JzFZ1eiwYkE3Y8n2BirbC19OAKwVP32Rw3HeY88PrT8fmhmPE3hdjPAmDwoDiU
S1EoCclX/ECKYXkOtlwblIji9eSa1imKNvofgcChETFL/lb92L9RkydZ2vWDPkSk
39UgZ+ufAKf73jG2YzEcPfccbAmNf/S6nKh8HwHGgG0BAdg3qP4tfSvCy9bpnLqU
jXYW3syBdQR7QXcVZRXLrAC2v+sc3LmNZC3/NdvFAGMBAAGjggEjMIIlBHzAdBgNV
HQ4EFgQU7eSH0CfEU0aEOvfM9+s6SfxSTiEwDgYDVR0PAAQH/BAQDAgGGMA8GA1Ud
EwEB/wQFMAMBAf8wgdwGCCsGAQUFBwELBIHPMIHMEMGCCsGAQUFBzAFHjdodHRw
Oi8vY3JsLmdkcy5kaXNhLm1pbC9nZXRJc3N1ZWRCeT9FQ0EIMjBSb290JTlwQ0Ei
MjAyMIGEBggrBgEFBQcwBYZ4bGRhcDovL2NybC5nZHMuZGlzYS5taWwvY24IM2RF
Q0EIMjBSb290JTlwQ0EIMjAyMjEwMTQyNDQ5WjBNMmNvJTNkVS5TLiUyMEdvdMvY
bm1lbnQIMmNjJTNkVVMY3Jvc3NDZXJ0aWZpY2F0ZVBhaXI7YmluYXJ5J5MA0GCSqG
SIb3DQEBBQUAA4IBAQBKzBvnhYiTI9m5vs+68TWUwUs8E3Bdgy5OfsFWDy3Bfh8N
6d3+Apl8YOOgqrmGI8MXfscRD+PQQlajHPNwj7GikbW8DoklZsg/XzYqDj62Z0CM
PUDfp2LgOBj6JG0tI9PAuHReIURUeiGXD1rNw/yVPSliF0YyF2FN6IN94H8vUqm
WlxPv8dl0f/i0zRIGhcBMvKE894FsmRjMdfNfWogVtkxpd8WLBhYR+twK3tNLau
q8ec7GWXKYWUIDPENSSLPC38Nyq7+qS2G5DylVcXSODvqZ2tAOKxZNIneRGDUzro
Czl2ziBn43ptS+peU+UvMEhd+OVUnanXacZ12UVH
```

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

Certificate Contents

Certificate:

Data:

Version: v3

Serial Number: 0x5

Signature Algorithm: SHA1withRSA - 1.2.840.113549.1.1.5

Issuer: CN=ECA Root CA 2,OU=ECA,O=U.S. Government,C=US

Validity:

Not Before: Friday, April 4, 2008 2:24:49 PM GMT

Not After: Thursday, March 30, 2028 2:24:49 PM GMT

Subject: CN=ECA Root CA 2,OU=ECA,O=U.S. Government,C=US

Subject Public Key Info:

Algorithm: RSA - 1.2.840.113549.1.1.1

Public Key:

Exponent: 65537

Public Key Modulus: (2048 bits) :

B3:90:D8:1E:EF:9A:ED:6E:47:B1:46:61:46:8D:A3:56:

08:9C:4A:32:C7:45:F2:D2:A4:A4:66:BE:7E:3D:97:80:

EF:E9:D7:6B:E9:E0:C0:3B:8D:E2:F8:12:FA:13:35:A4:

CD:5A:86:8B:B0:D0:2F:34:8C:F7:05:ED:87:6F:A7:30:

17:D0:16:C6:58:46:BD:95:F9:56:1A:88:D4:4E:1E:7E:

58:1F:1B:A2:73:15:9D:5E:8B:06:24:13:76:3C:9F:60:
62:AD:B0:B5:F4:E0:24:C1:53:F7:D9:1C:37:1D:E6:3C:
F0:FA:D3:F1:F9:A1:98:F1:37:85:D8:CF:02:60:F0:A0:
38:94:4B:51:28:09:C2:17:FC:40:A4:61:79:0E:B4:8C:
1B:20:82:62:F5:E4:9A:D6:29:8A:36:FA:1F:81:C0:A1:
11:31:4B:FE:56:FD:D8:BF:51:93:27:59:DA:F5:83:3E:
44:A4:DF:D5:20:67:EB:9F:00:A7:FB:DE:31:B6:63:31:
1C:3D:F7:1C:6C:09:8D:7F:F4:BA:9C:A8:7C:1F:01:C6:
80:6D:01:01:D8:37:A8:FE:2D:7D:2B:C2:CB:D6:E9:9C:
BA:94:8D:76:16:DE:CC:81:75:04:7B:41:77:15:65:15:
C9:AC:00:B6:BF:EB:1C:DC:B9:8D:64:2D:FF:35:DB:C5

Extensions:

Identifier: Subject Key Identifier - 2.5.29.14

Critical: no

Key Identifier:

ED:E4:87:D0:27:C4:50:E6:84:3A:F7:CC:F7:EB:3A:49:
FC:52:4E:21

Identifier: Key Usage: - 2.5.29.15

Critical: yes

Key Usage:

Digital Signature

Key CertSign

Crl Sign

Identifier: Basic Constraints - 2.5.29.19

Critical: yes

Is CA: yes

Path Length Constraint: UNLIMITED

Identifier: 1.3.6.1.5.5.7.1.11

Critical: no

Value:

30:81:CC:30:43:06:08:2B:06:01:05:05:07:30:05:86:
37:68:74:74:70:3A:2F:2F:63:72:6C:2E:67:64:73:2E:
64:69:73:61:2E:6D:69:6C:2F:67:65:74:49:73:73:75:
65:64:42:79:3F:45:43:41:25:32:30:52:6F:6F:74:25:
32:30:43:41:25:32:30:32:30:81:84:06:08:2B:06:01:
05:05:07:30:05:86:78:6C:64:61:70:3A:2F:2F:63:72:
6C:2E:67:64:73:2E:64:69:73:61:2E:6D:69:6C:2F:63:
6E:25:33:64:45:43:41:25:32:30:52:6F:6F:74:25:32:
30:43:41:25:32:30:32:25:32:63:6F:75:25:33:64:45:
43:41:25:32:63:6F:25:33:64:55:2E:53:2E:25:32:30:
47:6F:76:65:72:6E:6D:65:6E:74:25:32:63:63:25:33:
64:55:53:3F:63:72:6F:73:73:43:65:72:74:69:66:69:
63:61:74:65:50:61:69:72:3B:62:69:6E:61:72:79

Signature:

Algorithm: SHA1withRSA - 1.2.840.113549.1.1.5

Signature:

4A:CC:1B:E7:85:88:93:23:D9:B9:BE:CF:BA:F1:35:94:
C1:4B:3C:13:70:5D:83:2E:4E:7E:C1:56:0F:2D:C1:7E:
1F:0D:E9:DD:FE:02:99:7C:60:E3:86:AA:B9:86:23:C3:
17:7E:C7:11:0F:E3:D0:42:56:A3:1C:F3:70:8F:B1:88:
91:B5:BC:0E:89:25:66:C8:3F:5F:36:2A:0E:3E:B6:67:
40:8C:3D:40:DF:A7:62:E0:38:18:FA:24:6D:2D:23:D3:
C0:B8:74:5E:95:44:54:7A:21:97:0F:5A:CD:C3:FC:95:
3D:22:22:15:DD:18:60:5D:85:37:A9:4D:F7:81:FC:BD:
4A:A6:58:8C:4F:BF:C7:65:A1:FF:E2:D3:34:48:1A:17:
01:32:F2:84:F3:DE:05:B2:64:49:98:37:CD:21:F5:A8:

81:5B:64:C5:DA:7C:58:B0:61:61:1F:AD:C0:AD:ED:34:
B6:94:AB:C7:9C:EC:65:97:29:85:94:94:33:C4:35:24:
8B:3D:CD:FC:37:2A:BB:FA:A4:B6:1B:90:F2:95:57:17:
48:E0:EF:A9:9D:AD:00:E2:B1:64:D9:67:79:11:83:B9:
9A:E8:0B:32:36:CE:20:67:E3:7A:6D:4B:EA:5E:53:E5:
2F:30:41:DD:F8:E5:54:9D:A9:D7:69:C6:75:D9:45:47