



TECHNICAL BULLETIN

Software 4.0.7 | November 2014 | 3725-49116-001

Certificate Updates For Polycom[®] UC Software 4.0.7

For SoundPoint[®] IP, SoundStation[®] IP, SoundStation Duo[™], and VVX[®] Phones

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Certificate Updates For Polycom UC Software 4.0.7

Polycom now supports the SHA1 Thawte certificates and no longer supports the Thawte MD5 certificates.

Customer Impact

If you are using the Thawte MD5 CA issued certificates, Polycom recommends that you migrate to SHA1-based secure certificates. If you continue to use Thawte MD5 CA signed certificates, the secure communication with the device can fail. Both the unsupported and supported certificates are listed below.

No Longer Supported Thawte MD5 Based Root Certificates

- [Thawte Personal Basic CA-md5WithRSA](#)
- [Thawte Personal Freemail CA-md5WithRSA](#)
- [Thawte Personal Premium CA-md5WithRSA](#)
- [Thawte Premium Server CA-md5WithRSA](#)
- [Thawte Server CA-md5WithRSA](#)

Thawte Personal Basic CA-md5WithRSA

=====

MD5 Fingerprint: E6:0B:D2:C9:CA:2D:88:DB:1A:71:0E:4B:78:EB:02:41

PEM Data:

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

```
MIIDITCCAoqgAwIBAgIBADANBgkqhkiG9w0BAQQFADCBYzELMAkGA1UEBhMCWkEx
FTATBgNVBAGTDGFdlc3Rlcm4gQ2FwZTESMBAGA1UEBxMjQ2FwZSBUB3duMR0wGAYD
VQKQExFUaGF3dGUgQ29uc3VsdGluZzEoMCYGA1UECxMfQ2VydGlmaWNhdGlubiBT
ZXJ2aWNlcyBEaXZpc2lvb2EhMB8GA1UEAxMYVGVhhd3RlIFBlcnNvbmlhcnJlc2l
IENBMSgwJgYJKoZIhvcNAQkBFHlwZXJ2b25hbC1iYXNpY0B0aGF3dGUuY29tMB4X
DTk2MDEwMTAwMDAwMFoXDTIwMTIzMTIzNTk1OVowgcxkZAJBgNVBAYTAipBMRUw
```

```
EwYDVQIQIExwXZXXN0ZXJulENhcGUxEjAQBgNVBAcTCUNhcGUgVG93bjEaMBGGA1UE
ChMRVGhhd3RIIENvbnN1bHRpbmcxKDAmBgNVBAcTH0NlcnRpZmljYXRpb24gU2Vy
dmljZXMgRGI2aXNpb24xITAFBgNVBAMTGFRoYXd0ZSBQZXJzb25hbCBCYXNpYyBD
QTEoMCMYGCsqGSIb3DQEJARYZcGVyc29uYWwtYmFzaWNAdGhhd3RlLmNvbTcBnzAN
BkgqhkiG9w0BAQEFAAOBJQAwgYkCgYEAyLyTU23AUE+CFeZIIDWmWr5vQvoPR+53
dXLdjUmbllgeNTPK1GzaQuRdhciB5dqxFGTS+CN7zeVoQxN2jSQHReJl+A1OFdK
wPQlCok8RHtQfmGakOMj04gRRif1CwcOu93RfyAKiLIWCy4cgNrx454p7xS9CkT7
G1sY0b8jkyECAwEAAaMTMBEwDwYDVR0TAQH/BAUwAwEB/zANBgqhkiG9w0BAQQF
AAOBGQAt4plrsD16iddZopQBHyvdEktTwq1/qqcAXJFAVyVKOKqEcLnZgA+le1z7
c8a914pHXAPJLSeoF+CEhULcXpvGt7Jtu3Sv5D/Lp7ew4F2+eIMIINLbgQ95B21P
9DKVWIIBe94y1k049hJcBIDfBVu9FEuh3ym6O0GN92NWod8isQ==
-----END CERTIFICATE-----
```

Certificate Ingredients:

Data:

Version: 3 (0x2)

Serial Number: 0 (0x0)

Signature Algorithm: md5WithRSAEncryption

Issuer: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting, OU=Certification Services Division, CN=Thawte Personal Basic CA/Email=personal-basic@thawte.com

Validity

Not Before: Jan 1 00:00:00 1996 GMT

Not After : Dec 31 23:59:59 2020 GMT

Subject: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting, OU=Certification Services Division, CN=Thawte Personal Basic CA/Email=personal-basic@thawte.com

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

RSA Public Key: (1024 bit)

Modulus (1024 bit):

00:bc:bc:93:53:6d:c0:50:4f:82:15:e6:48:94:35:

a6:5a:be:6f:42:fa:0f:47:ee:77:75:72:dd:8d:49:

9b:96:57:a0:78:d4:ca:3f:51:b3:69:0b:91:76:17:
 22:07:97:6a:c4:51:93:4b:e0:8d:ef:37:95:a1:0c:
 4d:da:34:90:1d:17:89:97:e0:35:38:57:4a:c0:f4:
 08:70:e9:3c:44:7b:50:7e:61:9a:90:e3:23:d3:88:
 11:46:27:f5:0b:07:0e:bb:dd:d1:7f:20:0a:88:b9:
 56:0b:2e:1c:80:da:f1:e3:9e:29:ef:14:bd:0a:44:
 fb:1b:5b:18:d1:bf:23:93:21

Exponent: 65537 (0x10001)

X509v3 extensions:

X509v3 Basic Constraints: critical

CA:TRUE

Signature Algorithm: md5WithRSAEncryption

2d:e2:99:6b:b0:3d:7a:89:d7:59:a2:94:01:1f:2b:dd:12:4b:
 53:c2:ad:7f:aa:a7:00:5c:91:40:57:25:4a:38:aa:84:70:b9:
 d9:80:0f:a5:7b:5c:fb:73:c6:bd:d7:8a:61:5c:03:e3:2d:27:
 a8:17:e0:84:85:42:dc:5e:9b:c6:b7:b2:6d:bb:74:af:e4:3f:
 cb:a7:b7:b0:e0:5d:be:78:83:25:94:d2:db:81:0f:79:07:6d:
 4f:f4:39:15:5a:52:01:7b:de:32:d6:4d:38:f6:12:5c:06:50:
 df:05:5b:bd:14:4b:a1:df:29:ba:3b:41:8d:f7:63:56:a1:df:
 22:b1

Thawte Personal Freemail CA-md5WithRSA

=====

MD5 Fingerprint: 1E:74:C3:86:3C:0C:35:C5:3E:C2:7F:EF:3C:AA:3C:D9

PEM Data:

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

MIIDLTCcApagAwIBAgIBADANBgkqhkiG9w0BAQQFADCB0TElMAkGA1UEBhMCWkEx
 FTATBgNVBAGTDfDlc3Rlcm4gQ2FwZTESMBAGA1UEBxMJQ2FwZSBUb3duMR0wGAYD
 VQKExFUaGF3dGUuQ29uc3VsdGluZzEoMCYGA1UECxMfQ2VydGlmaWNhdGlubiBT

ZXJ2aWNlcyBEaXZpc2lvdjEkmCIGA1UEAxMbvGhhd3RlIFBlcnNvbmcFslEzYzZWVt
 YWlsIENBMSswKQYJKoZIhvcNAQkBFhwwZXJzb25hbC1mcmVlbWVpEBoaGF3dGUu
 Y29tMB4XDk2MDEwMTAwMDAwMFoXDTEwMTIzMTIzNTk1OVowgdExCzAJBgNVBAYT
 AlpBMRUwEwYDVQQIEwxXZXR0ZXJlIENhcGUxEjAQBgNVBAcTCUNhcGUgVG93bjEa
 MBgGA1UEChMRVGVhhd3RlIENvbnN1bHRpbmcxKDAmbGNVBAStH0NlcnRpZmljYXRp
 b24gU2VydmljZXMGRI2aXNpb24xJDAiBgNVBAMTG1RoYXd0ZSBQZXJzb25hbCBG
 cmVlbWVpEBoaQDQTErMCKGCSqGSIb3DQEJARYccGVyc29uYWwtZnJlZW1haWxAdGhh
 d3RlImNvbTCBnzANBgkqhkiG9w0BAQEFAAOBjQAwgYkCgYEA1GnX1LCUZftx6UfY
 DFG26nKRslRefSONj3sS34UldSh0OkIsYeflXtL734Zhx2G6qPduc6WZBrCFG5E
 rHzmj+hND3EfQDimAKOHePb5lIZererAXnbr2RSjXW56fAylS1V/Bhkpf56aJtVq
 uzgkCGqYx7Hao5iR/Xnb5VrEHLkCAwEAAaMTMBEwDwYDVR0TAQH/BAUwAwEB/zAN
 BgkqhkiG9w0BAQQFAAOBQGDH7JJ+TvjlIqVnYiqk8E0RYNBvjWBYyawmu1l1XAjP
 MPuoSpaKH2JCI4wXD/S6ZJwXrEcp352YXtJsYHFcoqzceePnbgBHH7UNKOgCneSa
 /RPOptl8sfjcXyMmCZGAc9AUG95DqYMI8uacLxXK/qarigd1iwzdUYRr5PjRznei
 gQ==

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

Certificate Ingredients:

Data:

Version: 3 (0x2)

Serial Number: 0 (0x0)

Signature Algorithm: md5WithRSAEncryption

Issuer: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting, OU=Certification Services Division, CN=Thawte Personal Freemail CA/Email=personal-freemail@thawte.com

Validity

Not Before: Jan 1 00:00:00 1996 GMT

Not After : Dec 31 23:59:59 2020 GMT

Subject: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting, OU=Certification Services Division, CN=Thawte Personal Freemail CA/Email=personal-freemail@thawte.com

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

RSA Public Key: (1024 bit)

Modulus (1024 bit):

00:d4:69:d7:d4:b0:94:64:5b:71:e9:47:d8:0c:51:
b6:ea:72:91:b0:84:5e:7d:2d:0d:8f:7b:12:df:85:
25:75:28:74:3a:42:2c:63:27:9f:95:7b:4b:ef:7e:
19:87:1d:86:ea:a3:dd:b9:ce:96:64:1a:c2:14:6e:
44:ac:7c:e6:8f:e8:4d:0f:71:1f:40:38:a6:00:a3:
87:78:f6:f9:94:86:5e:ad:ea:c0:5e:76:eb:d9:14:
a3:5d:6e:7a:7c:0c:a5:4b:55:7f:06:19:29:7f:9e:
9a:26:d5:6a:bb:38:24:08:6a:98:c7:b1:da:a3:98:
91:fd:79:db:e5:5a:c4:1c:b9

Exponent: 65537 (0x10001)

X509v3 extensions:

X509v3 Basic Constraints: critical

CA:TRUE

Signature Algorithm: md5WithRSAEncryption

c7:ec:92:7e:4e:f8:f5:96:a5:67:62:2a:a4:f0:4d:11:60:d0:
6f:8d:60:58:61:ac:26:bb:52:35:5c:08:cf:30:fb:a8:4a:96:
8a:1f:62:42:23:8c:17:0f:f4:ba:64:9c:17:ac:47:29:df:9d:
98:5e:d2:6c:60:71:5c:a2:ac:dc:79:e3:e7:6e:00:47:1f:b5:
0d:28:e8:02:9d:e4:9a:fd:13:f4:a6:d9:7c:b1:f8:dc:5f:23:
26:09:91:80:73:d0:14:1b:de:43:a9:83:25:f2:e6:9c:2f:15:
ca:fe:a6:ab:8a:07:75:8b:0c:dd:51:84:6b:e4:f8:d1:ce:77:
a2:81

Thawte Personal Premium CA-md5WithRSA

=====

MD5 Fingerprint: 3A:B2:DE:22:9A:20:93:49:F9:ED:C8:D2:8A:E7:68:0D

PEM Data:

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

MIIDKCCApKgAwIBAgIBADANBgkqhkiG9w0BAQQFADCzELMAkGA1UEBhMCWkEx
FTATBgNVBAGTDfDlc3Rlcm4gQ2FwZTESMBAGA1UEBxMJQ2FwZSBUb3duMRRowGAYD
VQKExFUaGF3dGUgQ29uc3VsdGluZzEoMCYGA1UECXMfQ2VydGlmaWNhdGlvbIbT
ZXJ2aWNlcyBEaXZpc2lvbEjMCEGA1UEAxMaVGhhd3RlIFBlcnNvbmlFByZW1p
dW0gQ0ExKjAoBgkqhkiG9w0BCQEWG3BlcnNvbmlFbXByZW1pdW1AdGhhd3RlLmNv
bTAeFw05NjAxMDEwMDAwMDBaFw0yMDEyMzU5NTIaMIHHPMQswCQYDVQQLQGEwJa
QTEVMBMGA1UECBMMV2VzdGVybiBDYXBIMRlwEAYDVQQHEwIDYXBIIFRvd24xGjAY
BgNVBAoTEVRoYXZ0ZSBDd25zdWx0aW5nMSgwJgYDVQLEx9DZXJ0aWZpY2F0aW9u
IFNlcnZpY2VzIERpdmlzaW9uMSMwIQRyYDVQDEExpUaGF3dGUgUGVyc29uYWwgUHJl
bWl1bSBDbTEqMCgGCSl3DQEJARYbcGVyc29uYWwtdHJlbnV1bUB0aGF3dGUu
Y29tMIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQDJZtn4B0TPuYwu8KHvE0Vs
Bd/eJxZRNkERbGw77f4QfRKe5ZtCmv5gMcNmt3M6SK500Dl3Ili1DbbZ8/JE2dWI
Et12Tfla/G8jHnr2JhFTgcQ7xZCOEN1bUre4qrJMf8fAHB8Zs8QJQi6+u4A6UYD
ZicRFTuqW/KY3TZCstqlDQAQABoxMwETAPBgNVHRMBAf8EBTADAQH/MA0GCSqG
SIb3DQEBAQUAA4GBAGk2ifc0KjNyL2071CKyuG+axTZmDhs8obF1Wub9NdP4qPIH
b4Vnjt4rueIXsDqg8A6iAJrf8xQVbrvlhVqYgPn/vnQdPfP+MCXRnzRn+qvxeTBh
KXLA4CxM+1bkOqhv5TJZUtt1KFBZDPgLGesS2a+Wjs9Q2wfd6h+rM+D1KzGJ

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

Certificate Ingredients:

Data:

Version: 3 (0x2)

Serial Number: 0 (0x0)

Signature Algorithm: md5WithRSAEncryption

Issuer: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting, OU=Certification Services Division, CN=Thawte Personal Premium CA/Email=personal-premium@thawte.com

Validity

Not Before: Jan 1 00:00:00 1996 GMT

Not After : Dec 31 23:59:59 2020 GMT

Subject: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting, OU=Certification Services Division, CN=Thawte Personal Premium CA/Email=personal-premium@thawte.com

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

RSA Public Key: (1024 bit)

Modulus (1024 bit):

00:c9:66:d9:f8:07:44:cf:b9:8c:2e:f0:a1:ef:13:
45:6c:05:df:de:27:16:51:36:41:11:6c:6c:3b:ed:
fe:10:7d:12:9e:e5:9b:42:9a:fe:60:31:c3:66:b7:
73:3a:48:ae:4e:d0:32:37:94:88:b5:0d:b6:d9:f3:
f2:44:d9:d5:88:12:dd:76:4d:f2:1a:fc:6f:23:1e:
7a:f1:d8:98:45:4e:07:10:ef:16:42:d0:43:75:6d:
4a:de:e2:aa:c9:31:ff:1f:00:70:7c:66:cf:10:25:
08:ba:fa:ee:00:e9:46:03:66:27:11:15:3b:aa:5b:
f2:98:dd:36:42:b2:da:88:75

Exponent: 65537 (0x10001)

X509v3 extensions:

X509v3 Basic Constraints: critical

CA:TRUE

Signature Algorithm: md5WithRSAEncryption

69:36:89:f7:34:2a:33:72:2f:6d:3b:d4:22:b2:b8:6f:9a:c5:
36:66:0e:1b:3c:a1:b1:75:5a:e6:fd:35:d3:f8:a8:f2:07:6f:
85:67:8e:de:2b:b9:e2:17:b0:3a:a0:f0:0e:a2:00:9a:df:f3:
14:15:6e:bb:c8:85:5a:98:80:f9:ff:be:74:1d:3d:f3:fe:30:
25:d1:37:34:67:fa:a5:71:79:30:61:29:72:c0:e0:2c:4c:fb:
56:e4:3a:a8:6f:e5:32:59:52:db:75:28:50:59:0c:f8:0b:19:
e4:ac:d9:af:96:8d:2f:50:db:07:c3:ea:1f:ab:33:e0:f5:2b:
31:89

Thawte Premium Server CA-md5WithRSA

=====

MD5 Fingerprint: 06:9F:69:79:16:66:90:02:1B:8C:8C:A2:C3:07:6F:3A

PEM Data:

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

```

MIIDJzCCApCgAwIBAgIBATANBgkqhkiG9w0BAQQFADCBzjELMAkGA1UEBhMCWkEx
FTATBgNVBAGTDfDlcl3Rlcm4gQ2FwZTESMBAGA1UEBxMJQ2FwZSBUb3duMR0wGwYD
VQQKEXRUA GF3dGUgQ29uc3VsdGluZyBjYzEoMCMYGA1UECXMfQ2VydGlmaWNhdGlv
biBTZXJ2aWNlcyBEaXZpc2lvdjEhMB8GA1UEAxMYVGVhhd3RIIFByZW1pdW0gU2Vy
dmVylENBMSGwJgYJKoZIhvcNAQkBFHlwcmVtaXVtLXNlcnZlckB0aGF3dGUuY29t
MB4XDtk2MDgwMTAwMDAwMFoXDTIwMTIzMTIzNTk1OVowgc4xCzAJBgNVBAYTAipB
MRUwEwYDVQKIExwXZlXN0ZXJlENhcGUxEjAQBgNVBACTCUNhcGUgVG93bjEdMBsG
A1UEChMUUVGhhd3RIENvbnN1bHRpbmcmY2MxKDAmBgNVBAsTH0NlcnRpZmljYXRp
b24gU2VydmljZXMGRI2aXNpb24xITAFBgNVBAMTGFRoYXd0ZSBQcmVtaXVtIFNI
cnZlciBDQTEoMCMYGCsqGSib3DQJEJARYZcHJlbWl1bS1zZXJ2ZXJAdGhhd3RlMnV
bTCBnzANBgkqhkiG9w0BAQEFAAOBjQAwgYkCgYEA0jY2aovXwlue2oFBYo847kkE
VdbQ7xwblRZH7xhINTpS9CtqBo87L+pW46+GjZ4X9560ZXUCTe/LCaIhUdib0GfQ
ug2SBhRz1JPLlyoAnFxDLz6FVL88kRu2hFKbgifLy3j+ao6hnO2RINYyIkFvYMR
uHM/qgeN9EJN50CdHDCcAwEAAaMTMBEwDwYDVR0TAQH/BAUwAwEB/zANBgkqhkiG
9w0BAQQFAAOBgQAmSCwWwlj66BZ0DKqqX1Q/8tfJeGBeXm43YyJ3Nn6yF8Q0ufUI
hfzJATj/Tb7yFkJD57taRvvBxhEf8UqwKEbJw8RCfbz6q1lu1bdRiBHjpIUZa4JM
pAwSremkrj/xw0llmozFyD4lt5SZu5IycQfwhl7tUCemDaYj+bvLpgcUQg==

```

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

Certificate Ingredients:

Data:

Version: 3 (0x2)

Serial Number: 1 (0x1)

Signature Algorithm: md5WithRSAEncryption

Issuer: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting cc, OU=Certification Services Division, CN=Thawte Premium Server CA/Email=premium-server@thawte.com

Validity

Not Before: Aug 1 00:00:00 1996 GMT

Not After : Dec 31 23:59:59 2020 GMT

Subject: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting cc, OU=Certification Services Division, CN=Thawte Premium Server CA/Email=premium-server@thawte.com

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

RSA Public Key: (1024 bit)

Modulus (1024 bit):

00:d2:36:36:6a:8b:d7:c2:5b:9e:da:81:41:62:8f:
38:ee:49:04:55:d6:d0:ef:1c:1b:95:16:47:ef:18:
48:35:3a:52:f4:2b:6a:06:8f:3b:2f:ea:56:e3:af:
86:8d:9e:17:f7:9e:b4:65:75:02:4d:ef:cb:09:a2:
21:51:d8:9b:d0:67:d0:ba:0d:92:06:14:73:d4:93:
cb:97:2a:00:9c:5c:4e:0c:bc:fa:15:52:fc:f2:44:
6e:da:11:4a:6e:08:9f:2f:2d:e3:f9:aa:3a:86:73:
b6:46:53:58:c8:89:05:bd:83:11:b8:73:3f:aa:07:
8d:f4:42:4d:e7:40:9d:1c:37

Exponent: 65537 (0x10001)

X509v3 extensions:

X509v3 Basic Constraints: critical

CA:TRUE

Signature Algorithm: md5WithRSAEncryption

26:48:2c:16:c2:58:fa:e8:16:74:0c:aa:aa:5f:54:3f:f2:d7:
c9:78:60:5e:5e:6e:37:63:22:77:36:7e:b2:17:c4:34:b9:f5:
08:85:fc:c9:01:38:ff:4d:be:f2:16:42:43:e7:bb:5a:46:fb:
c1:c6:11:1f:f1:4a:b0:28:46:c9:c3:c4:42:7d:bc:fa:ab:59:
6e:d5:b7:51:88:11:e3:a4:85:19:6b:82:4c:a4:0c:12:ad:e9:
a4:ae:3f:f1:c3:49:65:9a:8c:c5:c8:3e:25:b7:94:99:bb:92:

32:71:07:f0:86:5e:ed:50:27:a6:0d:a6:23:f9:bb:cb:a6:07:

14:42

Thawte Server CA-md5WithRSA

=====

MD5 Fingerprint: C5:70:C4:A2:ED:53:78:0C:C8:10:53:81:64:CB:D0:1D

PEM Data:

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

```

MIIDEzCCAnygAwIBAgIBATANBgkqhkiG9w0BAQQFADCBxDLMAkGA1UEBhMCWkEx
FTATBgNVBAGTDFdlc3Rlcm4gQ2FwZTESMBAGA1UEBxMJQ2FwZSBUb3duMR0wGwYD
VQKExRUaGF3dGUgQ29uc3VsdGluZyBjYzEoMCMYGA1UECXMfQ2VydGlmaWNhdGlv
biBTZXJ2aWNlcyBEaXZpc2ljbjEZMBCGA1UEAxMQVGVhd3RlIFNlcnZlciBDQTE
MCQGCSqGSib3DQEJARYXc2VydmVyLWNLcnRzQHRoYXd0ZS5jb20wHhcNOTYwODAx
MDAwMDAwWhcNMjAxMjMjMjM1OTU5WjCBxDLMAkGA1UEBhMCWkExFTATBgNVBAGT
DFdlc3Rlcm4gQ2FwZTESMBAGA1UEBxMJQ2FwZSBUb3duMR0wGwYDVQKExRUaGF3
dGUgQ29uc3VsdGluZyBjYzEoMCMYGA1UECXMfQ2VydGlmaWNhdGlvbiBTZXJ2aWNl
cyBEaXZpc2ljbjEZMBCGA1UEAxMQVGVhd3RlIFNlcnZlciBDQTE
MCQGCSqGSib3DQEJARYXc2VydmVyLWNLcnRzQHRoYXd0ZS5jb20wZGZ8wDQYJKoZIhvcNAQEBBQAD
gY0AMIGJAoGBANOkUG7I/1Zr5s9dtuoMaHVHoqrC2oQl/Kj0R1HahbUgdJSGHg91
yekIYfUGbTBuFRkC6VLAYttNmZ7iagxEOM3+vuNkCXDF/rFrKbYvScg71CcEJRCX
L+eQbcAoQpnXTEPew/UhbVSfXcNY4cDk2VuwuNy0e9820sK1ZiS1ocNAGMBAAGj
EzARMA8GA1UdEwEB/wQFMAMBAf8wDQYJKoZIhvcNAQEEBQADgYEAB/pMaVz7lCxG
7oWDTSEwjsrZqG9JGubaUeNgcGyEYRGhGshIPIldfU+VPaGLtwtimHp1it2ITk6e
QNuoZDJ0uW8NxuOzRAvZim+aKZuZGCg70eNAKJpaPNW15yAbi8qkq43pUdniTCxZ
qdq5snUb9kLy78fyGPMjvKP/iiMucEc=

```

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

Certificate Ingredients:

Data:

Version: 3 (0x2)

Serial Number: 1 (0x1)

Signature Algorithm: md5WithRSAEncryption

Issuer: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting cc, OU=Certification Services Division, CN=Thawte Server CA/Email=server-certs@thawte.com

Validity

Not Before: Aug 1 00:00:00 1996 GMT

Not After : Dec 31 23:59:59 2020 GMT

Subject: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting cc, OU=Certification Services Division, CN=Thawte Server CA/Email=server-certs@thawte.com

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

RSA Public Key: (1024 bit)

Modulus (1024 bit):

00:d3:a4:50:6e:c8:ff:56:6b:e6:cf:5d:b6:ea:0c:
68:75:47:a2:aa:c2:da:84:25:fc:a8:f4:47:51:da:
85:b5:20:74:94:86:1e:0f:75:c9:e9:08:61:f5:06:
6d:30:6e:15:19:02:e9:52:c0:62:db:4d:99:9e:e2:
6a:0c:44:38:cd:fe:be:e3:64:09:70:c5:fe:b1:6b:
29:b6:2f:49:c8:3b:d4:27:04:25:10:97:2f:e7:90:
6d:c0:28:42:99:d7:4c:43:de:c3:f5:21:6d:54:9f:
5d:c3:58:e1:c0:e4:d9:5b:b0:b8:dc:b4:7b:df:36:
3a:c2:b5:66:22:12:d6:87:0d

Exponent: 65537 (0x10001)

X509v3 extensions:

X509v3 Basic Constraints: critical

CA:TRUE

Signature Algorithm: md5WithRSAEncryption

07:fa:4c:69:5c:fb:95:cc:46:ee:85:83:4d:21:30:8e:ca:d9:
a8:6f:49:1a:e6:da:51:e3:60:70:6c:84:61:11:a1:1a:c8:48:
3e:59:43:7d:4f:95:3d:a1:8b:b7:0b:62:98:7a:75:8a:dd:88:

4e:4e:9e:40:db:a8:cc:32:74:b9:6f:0d:c6:e3:b3:44:0b:d9:
8a:6f:9a:29:9b:99:18:28:3b:d1:e3:40:28:9a:5a:3c:d5:b5:
e7:20:1b:8b:ca:a4:ab:8d:e9:51:d9:e2:4c:2c:59:a9:da:b9:
b2:75:1b:f6:42:f2:ef:c7:f2:18:f9:89:bc:a3:ff:8a:23:2e:
70:47

Supported Thawte SHA1 Based Root Certificates

- [Thawte Personal Basic CA-sha1WithRSA](#)
- [Thawte Personal Freemail CA-sha1WithRSA](#)
- [Thawte Personal Premium CA-sha1WithRSA](#)
- [Thawte Premium Server CA-sha1WithRSA](#)
- [Thawte Server CA-sha1WithRSA](#)

Thawte Personal Basic CA-sha1WithRSA

=====

Certificate:

Data:

Version: 3 (0x2)

Serial Number:

0d:8e:15:12:e1:ac:bb:77:8d:38:e3:24:df:8c:30:f2

Signature Algorithm: sha1WithRSAEncryption

Issuer: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting, OU=Certification Services Division, CN=Thawte Personal Basic CA/emailAddress=personal-basic@thawte.com

Validity

Not Before: Jan 1 00:00:00 1996 GMT

Not After : Jan 1 23:59:59 2021 GMT

Subject: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting, OU=Certification Services Division, CN=Thawte Personal Basic CA/emailAddress=personal-basic@thawte.com

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

RSA Public Key: (1024 bit)

Modulus (1024 bit):

00:bc:bc:93:53:6d:c0:50:4f:82:15:e6:48:94:35:

a6:5a:be:6f:42:fa:0f:47:ee:77:75:72:dd:8d:49:

9b:96:57:a0:78:d4:ca:3f:51:b3:69:0b:91:76:17:

22:07:97:6a:c4:51:93:4b:e0:8d:ef:37:95:a1:0c:


```

dGhhd3RlLmNvbTCBnzANBkgqhkIG9w0BAQEFAAOBjQAwgYkCgYEAuLyTU23AUE+C
FeZIIDWmWr5vQvoPR+53dXLdjUmblllegeNTP1GzaQuRdhciB5dqxFGTS+CN7zeV
oQxN2jSQHReJl+A1OFdKwPQlcOk8RHtQfmGakOMj04gRRif1CwcOu93RfyAKiLIW
Cy4cgNrx454p7xS9CkT7G1sY0b8jkyECAwEAAaMTMBEwDwYDVR0TAQH/BAUwAwEB
/zANBkgqhkIG9w0BAQUFAAOBgQCIO/64+XpCRhGgpKJkhc1IHJzVilHNL8F9sQfP
1wHeMj+W5IT+0V6tDH4OY0lqDhDkl9A/xacp2aZTHkseP1T6wIQ1c+qRqdxdk1cF
BgwHua8LRDmllaDugnOpRi9pbCV0qc3fp9f9hTAEIDVKpxszJCxEFu0KxN+AqmUa
v3Em8A==
-----END CERTIFICATE-----

```

Thawte Personal Freemail CA-sha1WithRSA

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Certificate:

Data:

Version: 3 (0x2)

Serial Number:

12:3d:f0:e7:da:2a:22:47:a4:38:89:e0:8a:ee:c9:67

Signature Algorithm: sha1WithRSAEncryption

Issuer: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting, OU=Certification Services Division, CN=Thawte Personal Freemail CA/emailAddress=personal-freemail@thawte.com

Validity

Not Before: Jan 1 00:00:00 1996 GMT

Not After : Jan 1 23:59:59 2021 GMT

Subject: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting, OU=Certification Services Division, CN=Thawte Personal Freemail CA/emailAddress=personal-freemail@thawte.com

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

RSA Public Key: (1024 bit)

Modulus (1024 bit):

00:d4:69:d7:d4:b0:94:64:5b:71:e9:47:d8:0c:51:
 b6:ea:72:91:b0:84:5e:7d:2d:0d:8f:7b:12:df:85:
 25:75:28:74:3a:42:2c:63:27:9f:95:7b:4b:ef:7e:
 19:87:1d:86:ea:a3:dd:b9:ce:96:64:1a:c2:14:6e:
 44:ac:7c:e6:8f:e8:4d:0f:71:1f:40:38:a6:00:a3:
 87:78:f6:f9:94:86:5e:ad:ea:c0:5e:76:eb:d9:14:
 a3:5d:6e:7a:7c:0c:a5:4b:55:7f:06:19:29:7f:9e:
 9a:26:d5:6a:bb:38:24:08:6a:98:c7:b1:da:a3:98:
 91:fd:79:db:e5:5a:c4:1c:b9

Exponent: 65537 (0x10001)

X509v3 extensions:

X509v3 Basic Constraints: critical

CA:TRUE

Signature Algorithm: sha1WithRSAEncryption

1e:98:60:d4:e5:f2:54:60:b0:3d:1a:81:64:47:f7:5b:a3:d9:
 6f:c3:29:0b:a7:d2:a9:81:49:f6:c3:6d:85:14:28:45:44:01:
 f4:71:5c:95:2e:14:0f:1a:2b:d1:a9:6b:c1:5f:67:3d:16:f1:
 72:20:af:be:16:ca:0e:30:5f:c9:cb:a5:93:2c:c3:67:54:1e:
 72:22:8a:23:76:6c:94:1d:51:52:6c:9d:c4:e0:47:02:d7:cc:
 bf:f0:80:7b:18:6e:25:dc:62:61:d6:a6:fe:c1:1d:7f:d9:b3:
 fd:8d:5c:45:10:5a:c6:65:64:9a:eb:2c:f5:03:4f:d6:48:62:
 fb:2e

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

MIIDPDCCAqWgAwIBAgIQEj3w59oqlkekOIngiu7JZzANBgkqhkiG9w0BAQUFADCB
 0TElMAkGA1UEBhMCWkExFTATBgNVBAGTDFdlc3Rlcm4gQ2FwZTESMBAGA1UEBxMJ
 Q2FwZSBub3duMR0wGAYDVQQKExFUaGF3dGUgQ29uc3VsdGluZzEoMCMYGA1UECzMf
 Q2VydGlmaWNhdGlvbiBTZXJ2aWNlcyBEaXZpc2lvbEkMCIGA1UEAxMbvGhhd3RI
 IFBlcnNvbmlsIEZyZWVtYWIsIENBMSswKQYJKoZIhvcNAQkBFhwwZXJzb25hbC1m
 cmVlbWFpbnE0aGF3dGUuY29tMB4XDTEwMTAwMDAwMFOxDTIxMDEwMTIzNTk1

OVowgdExCzAJBgNVBAYTAIpBMRUwEwYDVQQIEwwXZXN0ZXJlENhcGUxEjAQBgNV
 BAACUNhcGUgVG93bjEaMBGGA1UEChMRVGVhd3RlIENvbnN1bHRpbmcxKDAmBgNV
 BAsTH0NlcnRpZmljYXRpb24gU2VydmljZXMgRGI2aXNpb24xJDAiBgNVBAMTG1Ro
 YXd0ZSBQZXJzb25hbCBGcmVlbWFpbCBDQTErMCKGCSqGSIB3DQEJARYccGVyc29u
 YWwtZnJlZW1haWxAdGhhd3RlLmNvbTcBnzANBgkqhkiG9w0BAQEFAAOBjQAwgYkC
 gYEA1GnX1LCUZFTx6UfYDFG26nKRslRefs0Nj3sS34UldSh0OkIsYyeflXtL734Z
 hx2G6qPduc6WZBrCFG5ErHzmj+hND3EfQDimAKOHePb5IIZererAXnbr2RSjXW56
 fAylS1V/Bhkpf56ajtVquzkgCGqYx7Hao5iR/Xnb5VrEHLkCAwEAAaMTMBEwDwYD
 VR0TAQH/BAUwAwEB/zANBgkqhkiG9w0BAQUFAAOBgQAemGDU5fJUyLA9GoFkr/db
 o9lwvykLp9KpgUn2w22FFChFRAH0cVyVlHQPgIvRqWvBX2c9FvFyIK++FsoOMF/J
 y6WTLmNnVB5yloojdmyUHVFSbJ3E4EcC18y/8IB7GG4l3GJh1qb+wR1/2bP9jVxF
 EFrGZWSa6yz1A0/WSGL7Lg==
 -----END CERTIFICATE-----

Thawte Personal Premium CA-sha1WithRSA

=====

Certificate:

Data:

Version: 3 (0x2)

Serial Number:

40:05:b2:53:a0:1a:46:43:50:09:81:8f:12:10:76:ec

Signature Algorithm: sha1WithRSAEncryption

Issuer: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting, OU=Certification Services
 Division, CN=Thawte Personal Premium CA/emailAddress=personal-premium@thawte.com

Validity

Not Before: Jan 1 00:00:00 1996 GMT

Not After : Jan 1 23:59:59 2021 GMT

Subject: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting, OU=Certification Services
 Division, CN=Thawte Personal Premium CA/emailAddress=personal-premium@thawte.com

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

RSA Public Key: (1024 bit)

Modulus (1024 bit):

00:c9:66:d9:f8:07:44:cf:b9:8c:2e:f0:a1:ef:13:
45:6c:05:df:de:27:16:51:36:41:11:6c:6c:3b:ed:
fe:10:7d:12:9e:e5:9b:42:9a:fe:60:31:c3:66:b7:
73:3a:48:ae:4e:d0:32:37:94:88:b5:0d:b6:d9:f3:
f2:44:d9:d5:88:12:dd:76:4d:f2:1a:fc:6f:23:1e:
7a:f1:d8:98:45:4e:07:10:ef:16:42:d0:43:75:6d:
4a:de:e2:aa:c9:31:ff:1f:00:70:7c:66:cf:10:25:
08:ba:fa:ee:00:e9:46:03:66:27:11:15:3b:aa:5b:
f2:98:dd:36:42:b2:da:88:75

Exponent: 65537 (0x10001)

X509v3 extensions:

X509v3 Basic Constraints: critical

CA:TRUE

Signature Algorithm: sha1WithRSAEncryption

ba:64:0a:e8:f3:b4:31:c9:27:6f:a2:76:a0:2d:36:71:c7:86:
c0:08:c2:4e:ed:da:9a:24:19:87:fc:5a:23:9c:72:4d:08:df:
ad:5c:c3:3b:24:81:1d:57:8f:b6:12:a5:22:03:ef:12:bd:d1:
2d:5e:96:8f:26:26:4f:4b:1b:7c:3b:a0:52:1a:a5:a8:37:86:
c4:47:2a:ca:dd:41:f8:68:f5:c2:13:41:29:9a:f0:0c:a8:cd:
a1:fc:15:23:02:db:7a:2b:d4:62:51:42:47:c4:a3:1f:f4:d2:
c5:4d:54:10:eb:da:f0:cc:a7:4f:37:0c:bd:3c:cb:10:e3:1a:
e8:15

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

MIIDODCCAqGgAwIBAgIQQAWyU6AaRkNQCYGPEhB27DANBgkqhkiG9w0BAQUFADCB
zzELMAkGA1UEBhMCWkExFTATBgNVBAGTDFdlc3Rlcm4gQ2FwZTESMBAGA1UEBxMJ

Q2FwZSBUb3duMRowGAYDVQKExFUaGF3dGUgQ29uc3VsdGluZzEoMCMYGA1UECXMf
 Q2VydGhmaWNhdGlvbiBTXJ2aWNlcyBEaXZpc2lvbEjMCEGA1UEAxMaVGhhd3RI
 IFBlnNvbmFsIFByZW1pdW0gQ0ExKjAoBkgkqhkiG9w0BCQEWG3BlcnNvbmFsLXBy
 ZW1pdW1AdGhhd3RlMnNvbTAeFw05NjAxMDEwMDAwMDBaFw0yMTAxMDEyMzU5NTla
 MIHPMQswCQYDVQGEwJaQTEVMBMGA1UECBMMV2VzdGVybiBDYXBIMRIwEAYDVQQH
 EwIDYXBIIFRvd24xGjAYBgNVBAoTEVRoYXZ0ZSBDb25zdWx0aW5nMSgwJgYDVQQQL
 Ex9DZXJ0aWZpY2F0aW9uIFNlcnZpY2VzIERpdmlzaW9uMSMwIQYDVQQDEExpUaGF3
 dGUgUGVyc29uYWwgUHJlbWl1bSBDQTEqMCGCSqGSIb3DQEJARYbcGVyc29uYWwt
 cHJlbWl1bUB0aGF3dGUuY29tMIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQDJ
 Ztn4B0TPuYwu8KHvE0VsBd/eJxZRNkERbGw77f4QfRKe5ZtCmv5gMcNmt3M6SK5O
 0DI3Ili1Dbbz8/JE2dWIEt12Tfla/G8jHnrx2JhFTgcQ7xZC0EN1bUre4qrJMf8f
 AHB8Zs8QJQI6+u4A6UYDZicRFTuqW/KY3TZCstqldQIDAQABoxMwETAPBgNVHRMB
 Af8EBTADAQH/MA0GCSqGSIb3DQEBAQUAA4GBALpkCujztDHJJ2+idqAtNnHHhsAI
 wk7t2pokGYf8WiOcck0I361cwzskgR1Xj7YSpSID7xK90S1elo8mJk9LG3w7oFla
 pag3hsRHksrdQfho9cITQsma8AyozaH8FSMC23or1GJRQkfEox/00sVNVBDr2vDM
 p083DL08yxDjGugV
 -----END CERTIFICATE-----

Thawte Premium Server CA-sha1WithRSA

=====

Certificate:

Data:

Version: 3 (0x2)

Serial Number:

36:12:22:96:c5:e3:38:a5:20:a1:d2:5f:4c:d7:09:54

Signature Algorithm: sha1WithRSAEncryption

Issuer: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting cc, OU=Certification Services Division, CN=Thawte Premium Server CA/emailAddress=premium-server@thawte.com

Validity

Not Before: Aug 1 00:00:00 1996 GMT

Not After : Jan 1 23:59:59 2021 GMT

Subject: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting cc, OU=Certification Services Division, CN=Thawte Premium Server CA/emailAddress=premium-server@thawte.com

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

RSA Public Key: (1024 bit)

Modulus (1024 bit):

00:d2:36:36:6a:8b:d7:c2:5b:9e:da:81:41:62:8f:
38:ee:49:04:55:d6:d0:ef:1c:1b:95:16:47:ef:18:
48:35:3a:52:f4:2b:6a:06:8f:3b:2f:ea:56:e3:af:
86:8d:9e:17:f7:9e:b4:65:75:02:4d:ef:cb:09:a2:
21:51:d8:9b:d0:67:d0:ba:0d:92:06:14:73:d4:93:
cb:97:2a:00:9c:5c:4e:0c:bc:fa:15:52:fc:f2:44:
6e:da:11:4a:6e:08:9f:2f:2d:e3:f9:aa:3a:86:73:
b6:46:53:58:c8:89:05:bd:83:11:b8:73:3f:aa:07:
8d:f4:42:4d:e7:40:9d:1c:37

Exponent: 65537 (0x10001)

X509v3 extensions:

X509v3 Basic Constraints: critical

CA:TRUE

Signature Algorithm: sha1WithRSAEncryption

65:90:ac:88:0f:56:d9:e6:30:34:d4:26:c7:d0:50:f1:92:de:
6b:d4:39:88:09:22:c6:a6:63:83:03:f7:99:77:d8:b2:e5:18:
b8:5d:63:f3:d4:73:fb:6c:9c:99:78:f1:4b:78:7d:19:24:c3:
2b:02:84:f8:bc:22:d9:8a:22:d7:a0:fc:71:ec:91:87:20:f1:
b8:ec:b1:e5:55:80:ac:3d:52:c8:39:0e:c2:f0:c0:05:4f:d6:
82:75:8c:bd:5f:d2:dc:76:9a:05:12:c9:af:72:c3:dc:25:7e:
a4:4d:8e:17:a5:e0:87:7f:e1:9a:5a:e1:60:dc:64:23:3c:42:
2e:4d

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

```

MIIDNjCCAp+gAwIBAgIQNhilsXjOKUgodJfTncJVDANBgkqhkiG9w0BAQUFADCB
zjELMAkGA1UEBhMCWkExFTATBgNVBAGTDfDlc3Rlcm4gQ2FwZTESMBAGA1UEBxMJ
Q2FwZSBUb3duMR0wGwYDVQQKEXRUAzF3dGUgQ29uc3VsdGluZyBjYzEoMCMYGA1UE
CxMfQ2VydGlmYWVhdGlvbiBTZXJ2aWNlcyBEaXZpc2lvbjEhMB8GA1UEAxMYVGVhd
d3RIIFByZW1pdW0uU2VydmlvYlENBMSGwJgYJKoZIhvcNAQkBFhlcwVtaXVtLXNI
cnZlckB0aGF3dGUuY29tMB4XDTk2MDgwMTAwMDAwMFOxDTIxMDEwMTIzNTk1OVow
gc4xCzAJBgNVBAYTAjBMRUwEwYDVQQIEwxxZXN0ZXJ1eENhcGUxEjAQBgNVBAcT
CUNhcGUgVG93bjEdMBsGA1UEChMUUVGVhdh3RIIENvbnN1bHRpbmcgY2MxKDAmbGNV
BAsTH0NlcnRpZmljYXRpb24gU2VydmljZXMGRI2aXNpb24xITAFBgNVBAMTGFRO
YXd0ZSBSQcmVtaXVtIFNlcnZlciBDQTEoMCMYGCsqGSIb3DQEJARYZcHJlbWI1bS1z
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```

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

Thawte Server CA-sha1WithRSA

=====

Certificate:

Data:

Version: 3 (0x2)

Serial Number:

34:a4:ff:f6:30:af:4c:a5:3c:33:17:42:a1:94:66:75

Signature Algorithm: sha1WithRSAEncryption

Issuer: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting cc, OU=Certification Services Division, CN=Thawte Server CA/emailAddress=server-certs@thawte.com

Validity

Not Before: Aug 1 00:00:00 1996 GMT

Not After : Jan 1 23:59:59 2021 GMT

Subject: C=ZA, ST=Western Cape, L=Cape Town, O=Thawte Consulting cc, OU=Certification Services Division, CN=Thawte Server CA/emailAddress=server-certs@thawte.com

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

RSA Public Key: (1024 bit)

Modulus (1024 bit):

00:d3:a4:50:6e:c8:ff:56:6b:e6:cf:5d:b6:ea:0c:
68:75:47:a2:aa:c2:da:84:25:fc:a8:f4:47:51:da:
85:b5:20:74:94:86:1e:0f:75:c9:e9:08:61:f5:06:
6d:30:6e:15:19:02:e9:52:c0:62:db:4d:99:9e:e2:
6a:0c:44:38:cd:fe:be:e3:64:09:70:c5:fe:b1:6b:
29:b6:2f:49:c8:3b:d4:27:04:25:10:97:2f:e7:90:
6d:c0:28:42:99:d7:4c:43:de:c3:f5:21:6d:54:9f:
5d:c3:58:e1:c0:e4:d9:5b:b0:b8:dc:b4:7b:df:36:
3a:c2:b5:66:22:12:d6:87:0d

Exponent: 65537 (0x10001)

X509v3 extensions:

X509v3 Basic Constraints: critical

CA:TRUE

Signature Algorithm: sha1WithRSAEncryption

be:40:69:41:6f:c6:db:c1:a7:bf:07:c0:45:e4:d0:b5:43:1e:
4c:95:33:35:e9:5e:c2:3e:28:f6:a8:0d:50:d5:ff:e2:0c:0f:
fc:50:02:8e:ae:91:b9:ad:34:8a:8d:9f:27:71:aa:19:cc:4b:
e8:04:ca:d4:17:6b:12:1a:d6:c6:5f:d6:cd:5e:ff:89:76:bf:
d8:48:d8:59:bd:08:8a:89:1d:57:cd:45:1e:52:ba:12:9a:84:

fa:18:89:5f:e8:f9:30:35:6a:01:60:b9:99:80:83:85:0a:6e:

da:f4:c9:8f:5e:73:2d:31:4a:63:a0:74:f2:1f:8b:22:d2:29:

3e:eb

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

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-----END CERTIFICATE--