

StartSSL wss?



DEPRECATED

Webitel 3.1: [StartSSL](#) [wss](#)

SSL www.startssl.com



StartSSL.

(demo-srv.webitel.com) Private Key, Certificate [Class 1 Intermediate Server CA](#).

1. /opt/webitel/certs
2. Private Key /opt/webitel/certs/wss.key
3. Certificate /opt/webitel/certs/wss.crt
4. Class 1 Intermediate Server CA: wget <https://www.startssl.com/certs/sub.class1.server.ca.pem>

webitel

1. pfx webitel:

```
openssl pkcs12 -export -in wss.crt -inkey wss.key -out certificate.pfx -certfile sub.class1.server.ca.pem
```

2. certificate.pfx webitel : /opt/webitel/srv/Webitel.EventWebSocket.addin

Webitel.EventWebSocket.addin

```
<section name="config">
  <set type="setup" name="listen-ip" value="Any"/>
  <set type="setup" name="listen-port" value="6871"/>
  <set type="setup" name="max-connect-count" value="100"/>
  <set type="setup" name="max-request-length" value="100000"/>
  <set type="setup" name="json-format-indent" value="true"/>
  <set type="setup" name="security" value="tls"/>
  <set type="setup" name="certificate" value="/opt/webitel/certs/certificate.pfx"/>
  <set type="setup" name="password" value="itsferapass1"/>
</section>
```

3. webitel
4. , c :

```
openssl s_client -showcerts -connect demo-srv.webitel.com:6871
```

:

```
CONNECTED(00000003)
depth=0 C = UA, CN = demo-srv.webitel.com, emailAddress = chuchko@it-sfera.com.ua
verify error:num=20:unable to get local issuer certificate
verify return:1
depth=0 C = UA, CN = demo-srv.webitel.com, emailAddress = chuchko@it-sfera.com.ua
verify error:num=27:certificate not trusted
verify return:1
depth=0 C = UA, CN = demo-srv.webitel.com, emailAddress = chuchko@it-sfera.com.ua
verify error:num=21:unable to verify the first certificate
verify return:1
---
```

```
0 s:/C=UA/CN=demo-srv.webitel.com/emailAddress=chuchko@it-sfera.com.ua
   i:/C=IL/O=StartCom Ltd./OU=Secure Digital Certificate Signing/CN=StartCom Class 1 Primary Intermediate
Server CA
-----BEGIN CERTIFICATE-----
```

MIIGRjCCBS6gAwIBAGIDEyL6MA0GCSqGSIb3DQEBCwUAMIGMMQswCQYDVQGEwJjTDEWMBGQA1UEChMNU3RhcncRDb20gTHRKLjErfMCKGA1UECnMiU2VjdxJlIERpZ210YWwgQ2VydGlmawNhdGUGU2lbnbmLUzE4MDYGA1UEAxMVU3RhcncRDb20gQ2xhc3MgYSSGcmlltYXkiY2E1IEdudG9ybWJkaWQfZSB7ZTJZXXIwQEdHhcNMTQwOTI1MTQwNTI1ZWhcnMTUwYXkiY2E1MDcxNjQwYVJBMUQsQ2VydGQYDVQGEwJ3VTEdMBSGA1UEAwMzVzGtby1zcnyud2ViaXRlbc5jb20xJjAkbGkqhkiG9w0BCQEFW2NodWNoa29AaXQtc2ZlcmEY29tLnVhMIIbIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAWTmgeZ3ocsZHo817L2AdXldo0MNNW5XKp+84Aa+Gvu5ens1mtEm+Lyx7oY0AS9CQVrCq0FK0i9FZ7jwktBKBLXNoYB7pZJbYQswQtmG1ghdLaiLV4GLiPqF1SDsny0nrJp4i+nA9SUDZMCLYj1ahLV3EGTdpdqbD4nfouYr+5QPSpk5xTe862YHHqyEXgqppMmPyHRqjZnofeYrbGoIilMIxbmla0a3YIn0Ksxc0xpJTPg0T+JwlV0mm5n+YP/ZcCz25cz+A5mUDG13/u31zyRlBN0iyawHzhvJ5z8azJw3wm4H1w//jGQvLougVVPnX4jIrrJ45JDglibmccwIDAQABO4IC5jCJCAUwCQYDVDR0TBIAwADALBgNVHQ8EBMAC6gwEwYDR0LIBAWMcGyY1KwBBQUHAEwHQYDVRO0BbEYFF8jDw/AepywkYwBmPFL5jLoL4t4HXMB8GA1UdIwYQMABaAF0tCNCNCysKuf9BtrCPFMZC7VdixFMcWGA1UdEQQlMCOCFGRlBw8tc3J2Lnd1Yml0ZWwuY29tggt3ZWJpdGVsLmNvbTCCAAYGA1UdIASCAU0wggFJMagGmeBDAEATCCATSc6cysGAQQGbgbu3AQIDMIIBKjAuBggrBgEFBQcCARYiahR0cDovL3R3c3dy52bG9yYHNzbC5jb20vcG9sawN5LNRk3ZjCB9yIKwYBBQUHAgIweaXMGJxYQZ3dHcnRDb20gQ2VydGlmawNhdG1vbiBDbXNobXZjZjphdHkAWIBARQgVlRoaXMGY2VydGlmawNhdGUGU2FzIGLzc3VlZCBhY2NvcmrpbmcdG8gdGhLIENsYXNzIDEGVmFsaWRhdG1vbiByZXFlaXJlbWVudHMgb2YgdGh1IFN0YXJ0Q29tIENBIHBvbG1jeSwgcMVsawFuY2Ugb25seSmb3TgdGh1IG1udSUVZGVKIHBIcnBvc2UgaW4gY29tcGxpYw5jZSBvZBoaGUgcMVsawFuY2UwYXkiY2E1S0EsbVYmXpZ2F0aw9ucy4wNQYDVRO0BC4WLADQoCigYjYkAHR0cDovL2NybyCSzdgFYdHNzbC5jb20yY3J0MS1jcmwUy3J3SMIG0BggrBgEFBQcCBAQSBgTB/MDkGCCSGAQUBZABhi0dHRW0i8vb2Nzc2ZdgFYdHNzbC5jb20vc3ViL2NsYXNzMS9zZXJZXXIvY2EwQgYIKwYBBQUHMAKGNmh0dHA6Ly9haWEuc3RhcncRzc2wuY29tL2NlcnRkL3N1Yi5jbgFzc2Euc2VydmmYyLmNhlNmLdAajBgNVHREDAaahhhdHRW0i8vb3d3L3N1YXkiY2E1S0EsbVNB8wduYyJkoZIHvcNAQLBQADHGEBAJE2K20fda4eZK7wL2QsHpa3AQtarLBMTIOsn5CiDoalrBGH14hcUnEuqSunchjCga+HcBxaIObl18X3iq7ATCoD0M0GRSWePZoxandN4FunAei7A4mfWszjPpTfXZo8aqgN8xTN99KEHJPMxfPyvXuXVhZVlp7ibfryjwyF5RPKbRqP+HSEkirF27bnZ28Pe1AfW5Lkmw150vb6p6+aN5R32Bk0aig3reZqWfSTUpSJ8T8p8GHPubIoZ0IiYEA9y0E2ztPSGBLRdkFJ5D+onK2okoIj50FU70c0YR4equHvWkTYcykYw6X6TAOR1E35ReYgYtKtHUKUn7nnfYzJyna0=

```
subject=/C=UA/CN=demo-srv.webitel.com/emailAddress=chuchko@it-sfera.com.ua
issuer=/C=IL/O=StartCom Ltd./OU=Secure Digital Certificate Signing/CN=StartCom Class 1 Primary Intermediate
Server CA
```

```

Protocol    : TLSv1
Cipher      : AES256-SHA
Session-ID:
Session-ID-ctx:
Master-Key: 3819079D8181F4624ABB65F2CD0D6F6842F93AF4670DF63486297010B6C6AB72EC508DF591D23596A976E4C2C4FF98B9
Key-Arg     : None
Krb5 Principal: None
PSK identity: None
PSK identity hint: None
Start Time: 1411737613
Timeout     : 300 (sec)
Verify return code: 21 (unable to verify the first certificate)

```

```
read:errno=0
```

WebRTC

1. pem FreeSWITCH:

```
cat wss.crt wss.key sub.class1.server.ca.pem > wss.pem
cp wss.pem dtls-srtp.pem
```

2. wss.pem FreeSWITCH : /opt/webitel/switch/conf/sip_profiles/internal.xml

```
<param name="tls-cert-dir" value="/opt/webitel/certs"/>
<param name="wss-binding" value=":7443"/>
```

3. FreeSWITCH

4. :

```
openssl s_client -showcerts -connect demo-srv.webitel.com:7443
```

:

```
CONNECTED(00000003)
depth=2 C = IL, O = StartCom Ltd., OU = Secure Digital Certificate Signing, CN = StartCom Certification
Authority
verify return:1
depth=1 C = IL, O = StartCom Ltd., OU = Secure Digital Certificate Signing, CN = StartCom Class 1 Primary
Intermediate Server CA
verify return:1
depth=0 C = UA, CN = demo-srv.webitel.com, emailAddress = chuchko@it-sfera.com.ua
verify return:1
---
Certificate chain
 0 s:/C=UA/CN=demo-srv.webitel.com/emailAddress=chuchko@it-sfera.com.ua
 1 i:/C=IL/O=StartCom Ltd./OU=Secure Digital Certificate Signing/CN=StartCom Class 1 Primary Intermediate
Server CA
-----BEGIN CERTIFICATE-----
MIIGRjCCBS6gAwIBAgIDEyL6MA0GCSqGSIb3DQEBCwUAMIGMMQswCQYDVQGEWJj
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VmFsaWRhdGlvbiB5ZXF1aXJlbWVudHMgb2YgdGhliFN0YXJ0Q29tIENBIHBvbGlj
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```

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YW6X6TA0rA9C5ReGYKUTHKUn7nnfyZJynaQ=

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

1 s:/C=IL/O=StartCom Ltd./OU=Secure Digital Certificate Signing/CN=StartCom Class 1 Primary Intermediate
Server CA

i:/C=IL/O=StartCom Ltd./OU=Secure Digital Certificate Signing/CN=StartCom Certification Authority

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

MIIGNDCCBBygAwIBAgIBGDANBgkqhkiG9w0BAQUFADB9MQswCQYDVQQGEwJJTDEW
MBQGA1UEChMNU3RhcncRDb20gTHRkLjErMCKGA1UECxMiU2VjdXJlIERpZ2l0YWwg
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YXJ0Q29tIENsYXNzIDEGUHJpbWfYfSBjbnRlcm1lZG1hdGUgU2VydMvYIENBMTIIB
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gFYfka7hh/oyULTTRbw5gdfcA4Q9x3Azha2NIVad5Ksg8aswFI/ujjo/OenJOJA
pgh2wJJuniptTT9uYSAK21ne0n1jsz5G/vohURjXzTCm7Qdu03CHTPn66+6CPAVv
kvek3AowHpNz/gfK11+AnSJYUq4G2ouHI2mw5CrY6oPSvfNx23BaKA+vWjhwRRI/
ME3N068X5Q/LokLdSKqxYVDLNM08XMML6BDAjJvwAwNi/rJsPnI07hxDKslIDlc5
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BggrBgEFBQcCARYiaHR0cDovL3d3dy5zdGFydHNzbC5jb20vcG9saWN5LnBkZjA0
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0q6Dp6j0W6c=

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

2 s:/C=IL/O=StartCom Ltd./OU=Secure Digital Certificate Signing/CN=StartCom Class 1 Primary Intermediate
Server CA

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

MIIGNDCCBBygAwIBAgIBGDANBgkqhkiG9w0BAQUFADB9MQswCQYDVQQGEwJJTDEW
MBQGA1UEChMNU3RhcncRDb20gTHRkLjErMCKGA1UECxMiU2VjdXJlIERpZ2l0YWwg
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```

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SRXNiTE8kMBy12VLUjWKRhFEuT20KGWmPnmEXAhEKa2wNREuIU640ucQP12Eg7PD
wuTSxv0JS3QJ3fGz0xk+gA2iCxnw00fFwq/iI9th4p1cbiCJSS4jarJiwUW0n6+L
p/Ei0/h94pDQehn7Skzj0n1fSoMD7SfWI55rjbRZotnvbIIP3XUZPD9MEI3vu3Un
0q6Dp6j0W6c=
-----END CERTIFICATE-----
---
Server certificate
subject=/C=UA/CN=demo-srv.webitel.com/emailAddress=chuchko@it-sfera.com.ua
issuer=/C=IL/O=StartCom Ltd./OU=Secure Digital Certificate Signing/CN=StartCom Class 1 Primary Intermediate
Server CA
---
No client certificate CA names sent
---
SSL handshake has read 5113 bytes and written 581 bytes
---
New, TLSv1/SSLv3, Cipher is AES256-GCM-SHA384
Server public key is 2048 bit
Secure Renegotiation IS supported
Compression: NONE
Expansion: NONE
SSL-Session:
    Protocol : TLSv1.2
    Cipher : AES256-GCM-SHA384
    Session-ID: C8F6693AD88FA82ED2DE49B0667BC6E67D88715C5F3A7CE072D76AD29EFB1CB4
    Session-ID-ctx:
    Master-Key: C5D3AACDE2B690ADFF1FC20C529D2E225BDB7AC1381E5AF8A6C65CC7B67319C1F82C3816685E8EE73EDAE8155D72A33E
    Key-Arg : None
    Krb5 Principal: None
    PSK identity: None
    PSK identity hint: None
    TLS session ticket lifetime hint: 300 (seconds)
    TLS session ticket:
0000 - 3f 5a f8 d5 39 eb 0f 1a-d9 79 f0 60 a4 6f 25 13    ?Z..9....y.`.o%.
0010 - 64 d8 ac a9 de 32 af cf-e6 fe e5 05 99 86 46 5a    d....2.....FZ
0020 - e7 68 11 1d 50 d2 89 5f-ab e7 fe 3f ad 31 a9 62    .h..P._...?.1.b
0030 - 05 b5 4c 46 7e a6 4f c2-b1 e1 24 bd 5b 87 52 73    ..LF~.0...$.[.Rs
0040 - ae 29 e3 dc 89 8a b3 53-32 56 eb 1a 84 8f 7a c9    .).....S2V....Z.
0050 - b9 5f ec 93 21 87 48 d7-d3 f3 6a cd 25 9a bb e7    ._...!.H...j.%...
0060 - 0f c2 40 27 ea 28 0c a5-e7 7d 1b c4 ff cf 6c 7e    ..@'(...)...l~
0070 - 11 db 58 10 8d 5d ee 45-0f 04 29 f2 3f 78 1e 09    ..X...].E...).?x..
0080 - c1 ea e5 bc e7 1b 30 b0-7b 4a 51 c3 3b 9a fe bb    .....0.{JQ.;...
0090 - f4 c9 75 66 62 fe ad 78-8d d0 3d 76 4e 59 6c d4    ..ufb..x..=vNYl.
    Start Time: 1412057396
    Timeout : 300 (sec)
    Verify return code: 0 (ok)
---

```

- [Elasticsearch read-only?](#)
- [bpm'online on-site HTTPS](#)
- [StartSSL wss](#)
- [Chrome Ubuntu Linux](#)
- [http Chrome webrtc](#)