(This is a temporary solution for Windows users until an automatic script is available)

Creating new CA and certificate

- OpenSSL is built with FreeSWITCH - no additional files needed for setup.
- Create a CA directory under **freeswitch/conf/ssl** called CA:

```
mkdir ?c:\program files\freeswitch\conf\ssl\CA?
```

- Create two temporary files in this new directory:

c:\program files\freeswitch\conf\ssl\CA\tmpfile1.cfg

```
[ req ]
default_bits            = 1024
prompt                  = no
distinguished_name      = req_dn

[ req_dn ]
commonName              = FreesSWITCH CA
organizationName        = FreeSWITCH

[ ext ]
basicConstraints=CA:TRUE
subjectKeyIdentifier=hash
authorityKeyIdentifier=keyid,issuer:always
```

c:\program files\freeswitch\conf\ssl\CA\tmpfile2.cfg

```
[ req ]
default_bits            = 1024
prompt                  = no
distinguished_name      = req_dn

[ req_dn ]
commonName              = FreesSWITCH CA
organizationName        = FreeSWITCH

[ ext ]
basicConstraints=CA:FALSE
subjectKeyIdentifier=hash
authorityKeyIdentifier=keyid,issuer:always
subjectAltName=DNS:test.freeswitch.org
```

- To set up new CA certificate, run these commands under this new directory (*chdir "c:\program files\freeswitch\conf\ssl\CA"*):

```
..\..\..\openssl req -new -out "careq.pem" -newkey rsa:1024 -keyout "cakey.pem" -config "tmpfile1

..\..\..\openssl x509 -req -signkey "cakey.pem" -in "careq.pem" -out "cacert.pem" -extfile "tmpfi
```

- To generate a certificate, run this under the same directory:

```
..\..\..\openssl req -new -out "tmpfile2.req" -newkey rsa:1024 -keyout "tmpfile3.key" -config "tm
```

```
..\..\..\openssl x509 -req -CAkey "cakey.pem" -CA "cacert.pem" -CAcreateserial -in "tmpfile2.req"
```

- Move the final certificates in their final position:

```
copy cacert.pem ..\cafile.pem

copy tmpfile3.* ..\agent.pem
```

- Erase all the temporary files:

```
del tmpfile*.*
```

Removing the CA

To remove the CA, just delete the CA directory:

```
rmdir /s /q "c:\program files\freeswitch\conf\ssl\CA"
```

Customization

You might consider changing these according to your settings:

```
commonName     FreesSWITCH CAcustomize your own CA name
organizationName        =   FreeSWITCHPut your own organization name
subjectAltNameDNS:test.freeswitch.orgYour own DNS
copy tmpfile3.* ..\agent.pemdepending on the certificate name you need
```