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Subject: Core/SSL Having issue with Lets encrypt certificate

Posted by [Xemuth](#) on Fri, 10 Apr 2020 21:40:52 GMT

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Hello,

I have a fresh and valide certificate from LetsEncrypt with is private key, to test Upp compatibility, I have launch the package References : [Https](https://)

```
...
for(;;) {
    TcpSocket socket;
    LOG("===== Waiting...");
    if(socket.Accept(server)) {
        LOG("Connection accepted");
        socket.SSLCertificate(LoadFile(GetDataFile("C:\\Users\\Xemuth\\Documents\\ssl\\cert.pem")),
            LoadFile(GetDataFile("C:\\Users\\Xemuth\\Documents\\ssl\\privkey.pem")),
            false);
        if(!socket.StartSSL()) {
            LOG("Failed to start SSL: " << socket.GetErrorDesc());
            continue;
        }
        while(socket.SSLHandshake());
        if(socket.IsError()) {
            LOG("SSL handshake failed: " << socket.GetErrorDesc());
            continue;
        }
        LOG("SSL established");
    }
}
...

```

Any one have an idea ?

Thanks in advance.

Best regards

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Subject: Re: Core/SSL Having issue with Lets encrypt certificate

Posted by [mirek](#) on Mon, 13 Apr 2020 08:34:51 GMT

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I suspect there should be 'true' for asn1 parameter (I believe .pem files are in that format).

Mirek

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Subject: Re: Core/SSL Having issue with Lets encrypt certificate

Posted by [Xemuth](#) on Mon, 13 Apr 2020 13:30:47 GMT

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Hello Mirek, Thanks for your help, I have try but with or without the result is the same, I have tried on my Raspberry (wich carry the server my certificate is for) and the result is slightly different :

Seems like it's working but not totally !

EDIT : Result is the same with cert and pkey provided by Https Example

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Subject: Re: Core/SSL Having issue with Lets encrypt certificate

Posted by [Xemuth](#) on Mon, 13 Apr 2020 14:56:09 GMT

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According to <https://tls.mbed.org/kb/cryptography/asn1-key-structures-in-der-and-pem>

Pem are Base64 encoded, maybe I should do something like that :

```
socket.SSLCertificate(LoadFile(Base64Decode(GetDataFile("C:\\Users\\Xemuth\\Documents\\ssl\\
chain.pem"))),
    LoadFile(Base64Decode( GetDataFile("C:\\Users\\Xemuth\\Documents\\ssl\\privkey.pem"))),
    true);
```

It don't work, I will try to find other way of decoding it

EDIT : I have try to decode my certificate using this website : <https://lapo.it/asn1js/> and it work : This page contains a JavaScript generic ASN.1 parser that can decode any valid ASN.1 DER or BER structure whether Base64-encoded (raw base64, PEM armoring and begin-base64 are recognized) or Hex-encoded.

Do Upp ASN1 parser is able to reconize and decode multiple structure of pem ?

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