

## Ruby trunk - Bug #9504

### X509 certificate incorrectly loaded (because of try-pem-first-else-asn1)

02/08/2014 08:43 PM - rep (Mark Schloesser)

<b>Status:</b> Assigned	
<b>Priority:</b> Normal	
<b>Assignee:</b> openssl	
<b>Target version:</b>	
<b>ruby -v:</b> ruby 1.9.3p484 (2013-11-22 revision 43786) [x86_64-linux]	<b>Backport:</b> 1.9.3: UNKNOWN, 2.0.0: UNKNOWN, 2.1: UNKNOWN
<b>Description</b>	
<p>Ruby's openssl extension tries to load certificates as PEM format first, and on failure will try to do DER / ASN1. The PEM format loading ignores junk in the beginning and end of the given buffer, which can lead to a DER certificate being incorrectly loaded. This occurs on 1.9.3 and 2.2.0.</p> <p>More concretely this occurs in the wild when a server certificate has a X509 extension comment that includes another certificate in PEM format. Example below.</p> <p>To fix this, one could allow the user to optionally specify the format, and do DER directly if specified. That would keep things backwards compatible and allow these certificates to be correctly parsed.</p> <p>Example certificate - <a href="http://pastebin.com/V90dDSez">http://pastebin.com/V90dDSez</a> Openssl output for this - <a href="http://pastebin.com/GSsLtP8J">http://pastebin.com/GSsLtP8J</a></p> <p>Ruby script to show the bug/problem - <a href="http://pastebin.com/Q7ap7FjN">http://pastebin.com/Q7ap7FjN</a></p> <p>I currently patched my ruby version (1.9.3) like this: <a href="http://pastebin.com/HzyyAm0p">http://pastebin.com/HzyyAm0p</a></p> <p>Thanks for feedback and incorporating the patch / a similar solution for this into Ruby.</p>	

#### History

##### #1 - 02/08/2014 08:46 PM - rep (Mark Schloesser)

My patch means you can load the certificate like this:

```
x509 = OpenSSL::X509::Certificate.new(cert, "DER")
```

I guess having some module level constants for this (FILETYPE\_PEM, FILETYPE\_ASN1) would be better. Sadly I'm not a ruby guy by day, and I'd appreciate if someone cleans this up to be more clean :)

##### #2 - 03/03/2014 04:29 PM - nagachika (Tomoyuki Chikanaga)

- Status changed from Open to Assigned

- Assignee set to MartinBosslet (Martin Bosslet)

Hello, Mark.

Thank you for your reporting.

Martin, could you handle this?

##### #3 - 09/13/2015 03:10 AM - zzak (Zachary Scott)

- Assignee changed from MartinBosslet (Martin Bosslet) to openssl