

## Ruby trunk - Feature #5103

### [ext/openssl] Object equality for objects based on ASN.1 structures

07/27/2011 09:59 AM - MartinBosslet (Martin Bosslet)

<b>Status:</b>	Feedback
<b>Priority:</b>	Normal
<b>Assignee:</b>	openssl
<b>Target version:</b>	
<b>Description</b>	
Equality behaviour is not overridden by any of the classes that base on ASN.1 structures. This leads to counterintuitive things such as	
<pre>require 'openssl' key = OpenSSL::PKey::RSA.new 256  puts [key].include?(key) # =&gt; true  key2 = OpenSSL::PKey.read key.to_pem  puts key == key2 # =&gt; false puts [key].include?(key2) # =&gt; false</pre>	
That's why I'd like to suggest to determine equality for these objects on the encoding level, i.e. two such objects are equal iff <code>obj1.to_der == obj2.to_der</code> .	

#### History

##### #1 - 07/27/2011 10:36 AM - drbrain (Eric Hodel)

Is object equality on ASN.1 structures not useful or hard?

##### #2 - 07/27/2011 10:45 AM - MartinBosslet (Martin Bosslet)

Eric Hodel wrote:

Is object equality on ASN.1 structures not useful or hard?

I think it could be quite useful, for example when comparing certificates. Right now an easy way to do this is by comparing `cert1.to_der == cert2.to_der`.

But still I would prefer the more intuitive `cert1 == cert2` and implement it so that it actually compares the binary DER representation internally. This would be quite easy to implement since all ASN.1-based classes feature a `to_der` method already.

##### #3 - 11/20/2012 08:48 PM - mame (Yusuke Endoh)

- Target version changed from 1.9.4 to 2.6

##### #4 - 09/13/2015 03:32 AM - zzak (Zachary Scott)

- Assignee changed from MartinBosslet (Martin Bosslet) to openssl