

NAME

X509_get_serialNumber, X509_get0_serialNumber, X509_set_serialNumber - get or set certificate serial number

SYNOPSIS

```
#include <openssl/x509.h>
```

```
ASN1_INTEGER *X509_get_serialNumber(X509 *x);  
const ASN1_INTEGER *X509_get0_serialNumber(const X509 *x);  
int X509_set_serialNumber(X509 *x, ASN1_INTEGER *serial);
```

DESCRIPTION

X509_get_serialNumber() returns the serial number of certificate **x** as an **ASN1_INTEGER** structure which can be examined or initialised. The value returned is an internal pointer which **MUST NOT** be freed up after the call.

X509_get0_serialNumber() is the same as **X509_get_serialNumber()** except it accepts a const parameter and returns a const result.

X509_set_serialNumber() sets the serial number of certificate **x** to **serial**. A copy of the serial number is used internally so **serial** should be freed up after use.

RETURN VALUES

X509_get_serialNumber() and **X509_get0_serialNumber()** return an **ASN1_INTEGER** structure.

X509_set_serialNumber() returns 1 for success and 0 for failure.

SEE ALSO

d2i_X509(3), **ERR_get_error(3)**, **X509_CRL_get0_by_serial(3)**, **X509_get0_signature(3)**,
X509_get_ext_d2i(3), **X509_get_extension_flags(3)**, **X509_get_pubkey(3)**,
X509_get_subject_name(3), **X509_NAME_add_entry_by_txt(3)**,
X509_NAME_ENTRY_get_object(3), **X509_NAME_get_index_by_NID(3)**,
X509_NAME_print_ex(3), **X509_new(3)**, **X509_sign(3)**, **X509V3_get_d2i(3)**, **X509_verify_cert(3)**

HISTORY

The **X509_get_serialNumber()** and **X509_set_serialNumber()** functions are available in all versions of OpenSSL. The **X509_get0_serialNumber()** function was added in OpenSSL 1.1.0.

COPYRIGHT

Copyright 2016 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the Apache License 2.0 (the "License"). You may not use this file except in compliance with the License. You can obtain a copy in the file LICENSE in the source distribution or at <https://www.openssl.org/source/license.html>.