



*Full credit is given to the above companies including the OS that this PDF file was generated!*

## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'X509\_REQ\_get\_version.3ossl' command**

**`$ man X509_REQ_get_version.3ossl`**

X509\_GET\_VERSION(3ossl)      OpenSSL      X509\_GET\_VERSION(3ossl)

### NAME

X509\_get\_version, X509\_set\_version, X509\_REQ\_get\_version,  
X509\_REQ\_set\_version, X509\_CRL\_get\_version, X509\_CRL\_set\_version - get  
or set certificate, certificate request or CRL version

### SYNOPSIS

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

```
long X509_get_version(const X509 *x);
```

```
int X509_set_version(X509 *x, long version);
```

```
long X509_REQ_get_version(const X509_REQ *req);
```

```
int X509_REQ_set_version(X509_REQ *x, long version);
```

```
long X509_CRL_get_version(const X509_CRL *crl);
```

```
int X509_CRL_set_version(X509_CRL *x, long version);
```

### DESCRIPTION

X509\_get\_version() returns the numerical value of the version field of certificate x. These correspond to the constants X509\_VERSION\_1, X509\_VERSION\_2, and X509\_VERSION\_3. Note: the values of these constants

are defined by standards (X.509 et al) to be one less than the certificate version. So X509\_VERSION\_3 has value 2 and X509\_VERSION\_1 has value 0.

X509\_set\_version() sets the numerical value of the version field of certificate x to version.

Similarly X509\_REQ\_get\_version(), X509\_REQ\_set\_version(), X509\_CRL\_get\_version() and X509\_CRL\_set\_version() get and set the version number of certificate requests and CRLs. They use constants X509\_REQ\_VERSION\_1, X509\_CRL\_VERSION\_1, and X509\_CRL\_VERSION\_2.

## NOTES

The version field of certificates, certificate requests and CRLs has a DEFAULT value of v1(0) meaning the field should be omitted for version 1. This is handled transparently by these functions.

## RETURN VALUES

X509\_get\_version(), X509\_REQ\_get\_version() and X509\_CRL\_get\_version() return the numerical value of the version field.

X509\_set\_version(), X509\_REQ\_set\_version() and X509\_CRL\_set\_version() return 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

X509\_get\_version(), X509\_REQ\_get\_version() and X509\_CRL\_get\_version() are functions in OpenSSL 1.1.0, in previous versions they were macros.

## COPYRIGHT

Copyright 2015-2021 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>.

3.0.7                    2023-07-13            X509\_GET\_VERSION(3ossl)