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***Rocky Enterprise Linux 9.2 Manual Pages on command 'X509\_CRL\_set\_version.3ossl'***

***\$ man X509\_CRL\_set\_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.

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