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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'X509_get_version.3ossl' command

\$ man X509_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.

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