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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'X509_CRL_get0_lastUpdate.3ossl' command

```
$ man X509_CRL_get0_lastUpdate.3ossl
```

```
X509_GET0_NOTBEFORE(3ossl)      OpenSSL      X509_GET0_NOTBEFORE(3ossl)
```

NAME

X509_get0_notBefore, X509_getm_notBefore, X509_get0_notAfter,
X509_getm_notAfter, X509_set1_notBefore, X509_set1_notAfter,
X509_CRL_get0_lastUpdate, X509_CRL_get0_nextUpdate,
X509_CRL_set1_lastUpdate, X509_CRL_set1_nextUpdate - get or set
certificate or CRL dates

SYNOPSIS

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

```
const ASN1_TIME *X509_get0_notBefore(const X509 *x);
```

```
const ASN1_TIME *X509_get0_notAfter(const X509 *x);
```

```
ASN1_TIME *X509_getm_notBefore(const X509 *x);
```

```
ASN1_TIME *X509_getm_notAfter(const X509 *x);
```

```
int X509_set1_notBefore(X509 *x, const ASN1_TIME *tm);
```

```
int X509_set1_notAfter(X509 *x, const ASN1_TIME *tm);
```

```
const ASN1_TIME *X509_CRL_get0_lastUpdate(const X509_CRL *crl);
```

```
const ASN1_TIME *X509_CRL_get0_nextUpdate(const X509_CRL *crl);
```

```
int X509_CRL_set1_lastUpdate(X509_CRL *x, const ASN1_TIME *tm);  
int X509_CRL_set1_nextUpdate(X509_CRL *x, const ASN1_TIME *tm);
```

DESCRIPTION

X509_get0_notBefore() and X509_get0_notAfter() return the notBefore and notAfter fields of certificate x respectively. The value returned is an internal pointer which must not be freed up after the call.

X509_getm_notBefore() and X509_getm_notAfter() are similar to X509_get0_notBefore() and X509_get0_notAfter() except they return non-constant mutable references to the associated date field of the certificate.

X509_set1_notBefore() and X509_set1_notAfter() set the notBefore and notAfter fields of x to tm. Ownership of the passed parameter tm is not transferred by these functions so it must be freed up after the call.

X509_CRL_get0_lastUpdate() and X509_CRL_get0_nextUpdate() return the lastUpdate and nextUpdate fields of crl. The value returned is an internal pointer which must not be freed up after the call. If the nextUpdate field is absent from crl then NULL is returned.

X509_CRL_set1_lastUpdate() and X509_CRL_set1_nextUpdate() set the lastUpdate and nextUpdate fields of crl to tm. Ownership of the passed parameter tm is not transferred by these functions so it must be freed up after the call.

RETURN VALUES

X509_get0_notBefore(), X509_get0_notAfter() and X509_CRL_get0_lastUpdate() return a pointer to an ASN1_TIME structure.

X509_CRL_get0_lastUpdate() return a pointer to an ASN1_TIME structure

or NULL if the lastUpdate field is absent.

X509_set1_notBefore(), X509_set1_notAfter(), X509_CRL_set1_lastUpdate()
and X509_CRL_set1_nextUpdate() return 1 for success or 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

These functions are available in all versions of OpenSSL.

X509_get_notBefore() and X509_get_notAfter() were deprecated in OpenSSL

1.1.0

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