



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

Rocky Enterprise Linux 9.2 Manual Pages on command 'X509_CRL_sort.3ossl'

\$ man X509_CRL_sort.3ossl

X509_CRL_GET0_BY_SERIAL(3ossl) OpenSSL X509_CRL_GET0_BY_SERIAL(3ossl)

NAME

X509_CRL_get0_by_serial, X509_CRL_get0_by_cert, X509_CRL_get_REVOKED,
X509_REVOKED_get0_serialNumber, X509_REVOKED_get0_revocationDate,
X509_REVOKED_set_serialNumber, X509_REVOKED_set_revocationDate,
X509_CRL_add0_revoked, X509_CRL_sort - CRL revoked entry utility
functions

SYNOPSIS

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

```
int X509_CRL_get0_by_serial(X509_CRL *crl,  
                           X509_REVOKED **ret, const ASN1_INTEGER *serial);  
int X509_CRL_get0_by_cert(X509_CRL *crl, X509_REVOKED **ret, X509 *x);
```

```
STACK_OF(X509_REVOKED) *X509_CRL_get_REVOKED(X509_CRL *crl);
```

```
const ASN1_INTEGER *X509_REVOKED_get0_serialNumber(const X509_REVOKED *r);
const ASN1_TIME *X509_REVOKED_get0_revocationDate(const X509_REVOKED *r);

int X509_REVOKED_set_serialNumber(X509_REVOKED *r, ASN1_INTEGER *serial);
int X509_REVOKED_set_revocationDate(X509_REVOKED *r, ASN1_TIME *tm);

int X509_CRL_add0_revoked(X509_CRL *crl, X509_REVOKED *rev);

int X509_CRL_sort(X509_CRL *crl);
```

DESCRIPTION

X509_CRL_get0_by_serial() attempts to find a revoked entry in crl for serial number serial. If it is successful, it sets *ret to the internal pointer of the matching entry. As a result, *ret MUST NOT be freed after the call.

X509_CRL_get0_by_cert() is similar to X509_get0_by_serial() except it looks for a revoked entry using the serial number of certificate x.

X509_CRL_get_REVOKED() returns an internal pointer to a STACK of all revoked entries for crl.

X509_REVOKED_get0_serialNumber() returns an internal pointer to the serial number of r.

X509_REVOKED_get0_revocationDate() returns an internal pointer to the revocation date of r.

X509_REVOKED_set_serialNumber() sets the serial number of r to serial.

The supplied serial pointer is not used internally so it should be freed after use.

X509_REVOKED_set_revocationDate() sets the revocation date of r to tm.

The supplied tm pointer is not used internally so it should be freed after use.

X509_CRL_add0_revoked() appends revoked entry rev to CRL crl. The pointer rev is used internally so it MUST NOT be freed after the call:

it is freed when the parent CRL is freed.

X509_CRL_sort() sorts the revoked entries of crl into ascending serial number order.

NOTES

Applications can determine the number of revoked entries returned by X509_CRL_get_REVOKED() using sk_X509_REVOKED_num() and examine each one in turn using sk_X509_REVOKED_value().

RETURN VALUES

X509_CRL_get0_by_serial() and X509_CRL_get0_by_cert() return 0 for failure, 1 on success except if the revoked entry has the reason "removeFromCRL" (8), in which case 2 is returned.

X509_CRL_get_REVOKED() returns a STACK of revoked entries.

X509_REVOKED_get0_serialNumber() returns an ASN1_INTEGER structure.

X509_REVOKED_get0_revocationDate() returns an ASN1_TIME structure.

X509_REVOKED_set_serialNumber(), X509_REVOKED_set_revocationDate(), X509_CRL_add0_revoked() and X509_CRL_sort() return 1 for success and 0 for failure.

SEE ALSO

d2i_X509(3), ERR_get_error(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_get_version(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)

COPYRIGHT

Copyright 2015-2022 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_CRL_GET0_BY_SERIAL(3openssl)