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Rocky Enterprise Linux 9.2 Manual Pages on command 'X509_REVOKED_get0_serialNumber.3oss1'

```
$ man X509_REVOKED_get0_serialNumber.3oss1
```

```
X509_CRL_GET0_BY_SERIAL(3oss1)  OpenSSL  X509_CRL_GET0_BY_SERIAL(3oss1)
```

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)

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