



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

## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'X509\_CRL\_set\_issuer\_name.3ossl' command**

**\$ man X509\_CRL\_set\_issuer\_name.3ossl**

X509\_GET\_SUBJECT\_NAME(3ossl)    OpenSSL    X509\_GET\_SUBJECT\_NAME(3ossl)

### NAME

X509\_NAME\_hash\_ex, X509\_NAME\_hash, X509\_get\_subject\_name,  
X509\_set\_subject\_name, X509\_subject\_name\_hash, X509\_get\_issuer\_name,  
X509\_set\_issuer\_name, X509\_issuer\_name\_hash, X509\_REQ\_get\_subject\_name,  
X509\_REQ\_set\_subject\_name, X509\_CRL\_get\_issuer,  
X509\_CRL\_set\_issuer\_name - get X509\_NAME hashes or get and set issuer  
or subject names

### SYNOPSIS

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

```
unsigned long X509_NAME_hash_ex(const X509_NAME *x, OSSL_LIB_CTX *libctx,  
                                const char *propq, int *ok);
```

```
X509_NAME *X509_get_subject_name(const X509 *x);  
int X509_set_subject_name(X509 *x, const X509_NAME *name);  
unsigned long X509_subject_name_hash(X509 *x);
```

```
X509_NAME *X509_get_issuer_name(const X509 *x);  
int X509_set_issuer_name(X509 *x, const X509_NAME *name);  
unsigned long X509_issuer_name_hash(X509 *x);
```

```
X509_NAME *X509_REQ_get_subject_name(const X509_REQ *req);  
int X509_REQ_set_subject_name(X509_REQ *req, const X509_NAME *name);
```

```
X509_NAME *X509_CRL_get_issuer(const X509_CRL *crl);  
int X509_CRL_set_issuer_name(X509_CRL *x, const X509_NAME *name);
```

The following macro has been deprecated since OpenSSL 3.0, and can be hidden entirely by defining `OPENSSL_API_COMPAT` with a suitable version value, see `openssl_user_macros(7)`:

```
#define X509_NAME_hash(x) X509_NAME_hash_ex(x, NULL, NULL, NULL)
```

## DESCRIPTION

`X509_NAME_hash_ex()` returns a hash value of name `x` or 0 on failure, using any given library context `libctx` and property query `propq`. The `ok` result argument may be `NULL` or else is used to return 1 for success and 0 for failure. Failure may happen on malloc error or if no SHA1 implementation is available.

`X509_NAME_hash()` returns a hash value of name `x` or 0 on failure, using the default library context and default property query.

`X509_get_subject_name()` returns the subject name of certificate `x`. The returned value is an internal pointer which **MUST NOT** be freed.

`X509_set_subject_name()` sets the issuer name of certificate `x` to `name`. The `name` parameter is copied internally and should be freed up when it is no longer needed.

`X509_subject_name_hash()` returns a hash value of the subject name of certificate `x`.

X509\_get\_issuer\_name(), X509\_set\_issuer\_name(), and X509\_issuer\_name\_hash() are identical to X509\_get\_subject\_name(), X509\_set\_subject\_name(), and X509\_subject\_name\_hash() except they relate to the issuer name of x.

Similarly X509\_REQ\_get\_subject\_name(), X509\_REQ\_set\_subject\_name(), X509\_CRL\_get\_issuer() and X509\_CRL\_set\_issuer\_name() get or set the subject or issuer names of certificate requests of CRLs respectively.

## RETURN VALUES

X509\_get\_subject\_name(), X509\_get\_issuer\_name(), X509\_REQ\_get\_subject\_name() and X509\_CRL\_get\_issuer() return an X509\_NAME pointer.

X509\_NAME\_hash\_ex(), X509\_NAME\_hash(), X509\_subject\_name\_hash() and X509\_issuer\_name\_hash() return the first four bytes of the SHA1 hash value, converted to unsigned long in little endian order, or 0 on failure.

X509\_set\_subject\_name(), X509\_set\_issuer\_name(), X509\_REQ\_set\_subject\_name() and X509\_CRL\_set\_issuer\_name() return 1 for success and 0 for failure.

## BUGS

In case X509\_NAME\_hash(), X509\_subject\_name\_hash(), or X509\_issuer\_name\_hash() returns 0 it remains unclear if this is the real hash value or due to failure. Better use X509\_NAME\_hash\_ex() instead.

## SEE ALSO

d2i\_X509(3), ERR\_get\_error(3), d2i\_X509(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\_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\_REQ\_get\_subject\_name() is a function in OpenSSL 1.1.0 and a macro in earlier versions.

X509\_CRL\_get\_issuer() is a function in OpenSSL 1.1.0. It was previously added in OpenSSL 1.0.0 as a macro.

X509\_NAME\_hash() was turned into a macro and deprecated in OpenSSL 3.0.

## COPYRIGHT

Copyright 2015-2021 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\_GET\_SUBJECT\_NAME(3openssl)