



***Rocky Enterprise Linux 9.2 Manual Pages on command 'X509\_EXTENSION\_get\_object.3ossl'***

***\$ man X509\_EXTENSION\_get\_object.3ossl***

X509\_EXTENSION\_SET\_OBJECT(3ossl) OpenSSL X509\_EXTENSION\_SET\_OBJECT(3ossl)

NAME

X509\_EXTENSION\_set\_object, X509\_EXTENSION\_set\_critical,  
X509\_EXTENSION\_set\_data, X509\_EXTENSION\_create\_by\_NID,  
X509\_EXTENSION\_create\_by\_OBJ, X509\_EXTENSION\_get\_object,  
X509\_EXTENSION\_get\_critical, X509\_EXTENSION\_get\_data - extension  
utility functions

SYNOPSIS

```
int X509_EXTENSION_set_object(X509_EXTENSION *ex, const ASN1_OBJECT *obj);
int X509_EXTENSION_set_critical(X509_EXTENSION *ex, int crit);
int X509_EXTENSION_set_data(X509_EXTENSION *ex, ASN1_OCTET_STRING *data);
X509_EXTENSION *X509_EXTENSION_create_by_NID(X509_EXTENSION **ex,
                                             int nid, int crit,
                                             ASN1_OCTET_STRING *data);
X509_EXTENSION *X509_EXTENSION_create_by_OBJ(X509_EXTENSION **ex,
                                             const ASN1_OBJECT *obj, int crit,
                                             ASN1_OCTET_STRING *data);
ASN1_OBJECT *X509_EXTENSION_get_object(X509_EXTENSION *ex);
```

```
int X509_EXTENSION_get_critical(const X509_EXTENSION *ex);
ASN1_OCTET_STRING *X509_EXTENSION_get_data(X509_EXTENSION *ne);
```

## DESCRIPTION

X509\_EXTENSION\_set\_object() sets the extension type of ex to obj. The obj pointer is duplicated internally so obj should be freed up after use.

X509\_EXTENSION\_set\_critical() sets the criticality of ex to crit. If crit is zero the extension is non-critical otherwise it is critical.

X509\_EXTENSION\_set\_data() sets the data in extension ex to data. The data pointer is duplicated internally.

X509\_EXTENSION\_create\_by\_NID() creates an extension of type nid, criticality crit using data data. The created extension is returned and written to \*ex reusing or allocating a new extension if necessary so \*ex should either be NULL or a valid X509\_EXTENSION structure it must not be an uninitialised pointer.

X509\_EXTENSION\_create\_by\_OBJ() is identical to X509\_EXTENSION\_create\_by\_NID() except it creates an extension using obj instead of a NID.

X509\_EXTENSION\_get\_object() returns the extension type of ex as an ASN1\_OBJECT pointer. The returned pointer is an internal value which must not be freed up.

X509\_EXTENSION\_get\_critical() returns the criticality of extension ex it returns 1 for critical and 0 for non-critical.

X509\_EXTENSION\_get\_data() returns the data of extension ex. The returned pointer is an internal value which must not be freed up.

## NOTES

These functions manipulate the contents of an extension directly. Most applications will want to parse or encode and add an extension: they should use the extension encode and decode functions instead such as X509\_add1\_ext\_i2d() and X509\_get\_ext\_d2i().

The data associated with an extension is the extension encoding in an ASN1\_OCTET\_STRING structure.

## RETURN VALUES

X509\_EXTENSION\_set\_object() X509\_EXTENSION\_set\_critical() and X509\_EXTENSION\_set\_data() return 1 for success and 0 for failure. X509\_EXTENSION\_create\_by\_NID() and X509\_EXTENSION\_create\_by\_OBJ() return an X509\_EXTENSION pointer or NULL if an error occurs. X509\_EXTENSION\_get\_object() returns an ASN1\_OBJECT pointer. X509\_EXTENSION\_get\_critical() returns 0 for non-critical and 1 for critical. X509\_EXTENSION\_get\_data() returns an ASN1\_OCTET\_STRING pointer.

#### SEE ALSO

X509V3\_get\_d2i(3)

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3.0.7                    2023-07-13 X509\_EXTENSION\_SET\_OBJECT(3openssl)