

X509\_NAME\_ENTRY\_GET\_OBJECT(3ossl) OpenSSL X509\_NAME\_ENTRY\_GET\_OBJECT(3ossl)

## NAME

X509\_NAME\_ENTRY\_get\_object, X509\_NAME\_ENTRY\_get\_data,  
X509\_NAME\_ENTRY\_set\_object, X509\_NAME\_ENTRY\_set\_data,  
X509\_NAME\_ENTRY\_create\_by\_txt, X509\_NAME\_ENTRY\_create\_by\_NID,  
X509\_NAME\_ENTRY\_create\_by\_OBJ - X509\_NAME\_ENTRY utility functions

## SYNOPSIS

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

```
ASN1_OBJECT *X509_NAME_ENTRY_get_object(const X509_NAME_ENTRY *ne);
```

```
ASN1_STRING *X509_NAME_ENTRY_get_data(const X509_NAME_ENTRY *ne);
```

```
int X509_NAME_ENTRY_set_object(X509_NAME_ENTRY *ne, const ASN1_OBJECT *obj);
```

```
int X509_NAME_ENTRY_set_data(X509_NAME_ENTRY *ne, int type,  
                             const unsigned char *bytes, int len);
```

```
X509_NAME_ENTRY *X509_NAME_ENTRY_create_by_txt(X509_NAME_ENTRY **ne, const char *field,  
                                                int type, const unsigned char *bytes,  
                                                int len);
```

```
X509_NAME_ENTRY *X509_NAME_ENTRY_create_by_NID(X509_NAME_ENTRY **ne, int nid,  
                                                int type, const unsigned char *bytes,  
                                                int len);
```

```
X509_NAME_ENTRY *X509_NAME_ENTRY_create_by_OBJ(X509_NAME_ENTRY **ne,  
                                                const ASN1_OBJECT *obj, int type,  
                                                const unsigned char *bytes, int len);
```

## DESCRIPTION

**X509\_NAME\_ENTRY\_get\_object()** retrieves the field name of **ne** in and **ASN1\_OBJECT** structure.

**X509\_NAME\_ENTRY\_get\_data()** retrieves the field value of **ne** in and **ASN1\_STRING** structure.

**X509\_NAME\_ENTRY\_set\_object()** sets the field name of **ne** to **obj**.

**X509\_NAME\_ENTRY\_set\_data()** sets the field value of **ne** to string type **type** and value determined by **bytes** and **len**.

**X509\_NAME\_ENTRY\_create\_by\_txt()**, **X509\_NAME\_ENTRY\_create\_by\_NID()** and **X509\_NAME\_ENTRY\_create\_by\_OBJ()** create and return an **X509\_NAME\_ENTRY** structure.

## NOTES

**X509\_NAME\_ENTRY\_get\_object()** and **X509\_NAME\_ENTRY\_get\_data()** can be used to examine an **X509\_NAME\_ENTRY** function as returned by **X509\_NAME\_get\_entry()** for example.

**X509\_NAME\_ENTRY\_create\_by\_txt()**, **X509\_NAME\_ENTRY\_create\_by\_OBJ()**, **X509\_NAME\_ENTRY\_create\_by\_NID()** and **X509\_NAME\_ENTRY\_set\_data()** are seldom used in practice because **X509\_NAME\_ENTRY** structures are almost always part of **X509\_NAME** structures and the corresponding **X509\_NAME** functions are typically used to create and add new entries in a single operation.

The arguments of these functions support similar options to the similarly named ones of the corresponding **X509\_NAME** functions such as **X509\_NAME\_add\_entry\_by\_txt()**. So for example **type** can be set to **MBSTRING\_ASC** but in the case of **X509\_set\_data()** the field name must be set first so the relevant field information can be looked up internally.

## RETURN VALUES

**X509\_NAME\_ENTRY\_get\_object()** returns a valid **ASN1\_OBJECT** structure if it is set or NULL if an error occurred.

**X509\_NAME\_ENTRY\_get\_data()** returns a valid **ASN1\_STRING** structure if it is set or NULL if an error occurred.

**X509\_NAME\_ENTRY\_set\_object()** and **X509\_NAME\_ENTRY\_set\_data()** return 1 on success or 0 on error.

**X509\_NAME\_ENTRY\_create\_by\_txt()**, **X509\_NAME\_ENTRY\_create\_by\_NID()** and **X509\_NAME\_ENTRY\_create\_by\_OBJ()** return a valid **X509\_NAME\_ENTRY** on success or NULL if an error occurred.

## SEE ALSO

**ERR\_get\_error(3)**, **d2i\_X509\_NAME(3)**, **OBJ\_nid2obj(3)**

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