

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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