

**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

X509_NAME_ENTRY *X509_NAME_ENTRY_create_by_txt(X509_NAME_ENTRY **ne, const char
X509_NAME_ENTRY *X509_NAME_ENTRY_create_by_NID(X509_NAME_ENTRY **ne, int nid, in
X509_NAME_ENTRY *X509_NAME_ENTRY_create_by_OBJ(X509_NAME_ENTRY **ne, const ASN1_
```

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

*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.

**SEE ALSO**

[ERR\\_get\\_error\(3\)](#), [d2i\\_X509\\_NAME\(3\)](#), [OBJ\\_nid2obj\(3\)](#)

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