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***Rocky Enterprise Linux 9.2 Manual Pages on command 'X509\_NAME\_ENTRY\_create\_by\_NID.3ossl'***

***\$ man X509\_NAME\_ENTRY\_create\_by\_NID.3ossl***

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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