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Rocky Enterprise Linux 9.2 Manual Pages on command 'X509_NAME_ENTRY_create_by_OBJ.3oss1'

`$ man X509_NAME_ENTRY_create_by_OBJ.3oss1`

X509_NAME_ENTRY_GET_OBJECT(3oss1) OpenSSL X509_NAME_ENTRY_GET_OBJECT(3oss1)

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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