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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'PKCS8\_pkey\_add1\_attr\_by\_NID.3oss1' command**

**`$ man PKCS8_pkey_add1_attr_by_NID.3oss1`**

PKCS8\_PKEY\_ADD1\_ATTR(3oss1)    OpenSSL    PKCS8\_PKEY\_ADD1\_ATTR(3oss1)

### NAME

PKCS8\_pkey\_get0\_attrs, PKCS8\_pkey\_add1\_attr,  
PKCS8\_pkey\_add1\_attr\_by\_NID, PKCS8\_pkey\_add1\_attr\_by\_OBJ - PKCS8  
attribute functions

### SYNOPSIS

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

const STACK_OF(X509_ATTRIBUTE) *
PKCS8_pkey_get0_attrs(const PKCS8_PRIV_KEY_INFO *p8);

int PKCS8_pkey_add1_attr(PKCS8_PRIV_KEY_INFO *p8, X509_ATTRIBUTE *attr);

int PKCS8_pkey_add1_attr_by_NID(PKCS8_PRIV_KEY_INFO *p8, int nid, int type,
                                const unsigned char *bytes, int len);

int PKCS8_pkey_add1_attr_by_OBJ(PKCS8_PRIV_KEY_INFO *p8, const ASN1_OBJECT *obj,
                                int type, const unsigned char *bytes, int len);
```

### DESCRIPTION

PKCS8\_pkey\_get0\_attrs() returns a const STACK of X509\_ATTRIBUTE present in the passed const PKCS8\_PRIV\_KEY\_INFO structure p8.

PKCS8\_pkey\_add1\_attr() adds a constructed X509\_ATTRIBUTE attr to the existing PKCS8\_PRIV\_KEY\_INFO structure p8.

PKCS8\_pkey\_add1\_attr\_by\_NID() and PKCS8\_pkey\_add1\_attr\_by\_OBJ() construct a new X509\_ATTRIBUTE from the passed arguments and add it to the existing PKCS8\_PRIV\_KEY\_INFO structure p8.

### RETURN VALUES

PKCS8\_pkey\_add1\_attr(), PKCS8\_pkey\_add1\_attr\_by\_NID(), and  
PKCS8\_pkey\_add1\_attr\_by\_OBJ() return 1 for success and 0 for failure.

## NOTES

STACK of X509\_ATTRIBUTE is present in many X509-related structures and  
some of them have the corresponding set of similar functions.

## SEE ALSO

crypto(7)

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