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***Rocky Enterprise Linux 9.2 Manual Pages on command 'PKCS12\_SAFEABAG\_get0\_pkcs8.3ossl'***

***\$ man PKCS12\_SAFEABAG\_get0\_pkcs8.3ossl***

PKCS12\_SAFEABAG\_GET1\_CERT(3ossl) OpenSSL PKCS12\_SAFEABAG\_GET1\_CERT(3ossl)

**NAME**

PKCS12\_SAFEABAG\_get0\_attr, PKCS12\_SAFEABAG\_get0\_type,  
PKCS12\_SAFEABAG\_get0\_nid, PKCS12\_SAFEABAG\_get0\_bag\_nid,  
PKCS12\_SAFEABAG\_get0\_bag\_obj, PKCS12\_SAFEABAG\_get0\_bag\_type,  
PKCS12\_SAFEABAG\_get1\_cert, PKCS12\_SAFEABAG\_get1\_crl,  
PKCS12\_SAFEABAG\_get0\_safes, PKCS12\_SAFEABAG\_get0\_p8inf,  
PKCS12\_SAFEABAG\_get0\_pkcs8 - Get objects from a PKCS#12 safeBag

**SYNOPSIS**

```
#include <openssl/pkcs12.h>
```

```
const ASN1_TYPE *PKCS12_SAFEABAG_get0_attr(const PKCS12_SAFEABAG *bag,  
int attr_nid);
```

```
const ASN1_OBJECT *PKCS12_SAFEABAG_get0_type(const PKCS12_SAFEABAG *bag);
```

```
int PKCS12_SAFEABAG_get0_nid(const PKCS12_SAFEABAG *bag);
```

```
int PKCS12_SAFEABAG_get0_bag_nid(const PKCS12_SAFEABAG *bag);
```

```
const ASN1_TYPE *PKCS12_SAFEBAG_get0_bag_obj(const PKCS12_SAFEBAG *bag);
const ASN1_OBJECT *PKCS12_SAFEBAG_get0_bag_type(const PKCS12_SAFEBAG *bag);
X509 *PKCS12_SAFEBAG_get1_cert(const PKCS12_SAFEBAG *bag);
X509_CRL *PKCS12_SAFEBAG_get1_crl(const PKCS12_SAFEBAG *bag);
const STACK_OF(PKCS12_SAFEBAG) *PKCS12_SAFEBAG_get0_safes(const PKCS12_SAFEBAG *bag);
const PKCS8_PRIV_KEY_INFO *PKCS12_SAFEBAG_get0_p8inf(const PKCS12_SAFEBAG *bag);
const X509_SIG *PKCS12_SAFEBAG_get0_pkcs8(const PKCS12_SAFEBAG *bag);
```

## DESCRIPTION

PKCS12\_SAFEBAG\_get0\_attr() gets the attribute value corresponding to the attr\_nid.

PKCS12\_SAFEBAG\_get0\_type() gets the safeBag type as an OID, whereas PKCS12\_SAFEBAG\_get0\_nid() gets the safeBag type as an NID, which could be NID\_certBag, NID\_crlBag, NID\_keyBag, NID\_secretBag, NID\_safeContentsBag or NID\_pkcs8ShroudedKeyBag.

PKCS12\_SAFEBAG\_get0\_bag\_nid() gets the type of the object contained within the PKCS12\_SAFEBAG. This corresponds to the bag type for most bags, but can be arbitrary for secretBags.

PKCS12\_SAFEBAG\_get0\_bag\_type() gets this type as an OID.

PKCS12\_SAFEBAG\_get0\_bag\_obj() retrieves the object contained within the safeBag.

PKCS12\_SAFEBAG\_get1\_cert() and PKCS12\_SAFEBAG\_get1\_crl() return new X509 or X509\_CRL objects from the item in the safeBag.

PKCS12\_SAFEBAG\_get0\_p8inf() and PKCS12\_SAFEBAG\_get0\_pkcs8() return the PKCS8 object from a PKCS8shroudedKeyBag or a keyBag.

PKCS12\_SAFEBAG\_get0\_safes() retrieves the set of safeBags contained within a safeContentsBag.

## RETURN VALUES

PKCS12\_SAFEBAG\_get\_nid() and PKCS12\_SAFEBAG\_get\_bag\_nid() return the NID of the safeBag or bag object, or -1 if there is no corresponding NID. Other functions return a valid object of the specified type or NULL if an error occurred.

## SEE ALSO

PKCS12\_create(3), PKCS12\_add\_safe(3), PKCS12\_add\_safes(3)

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3.0.7                    2023-07-13   PKCS12\_SAFEBAG\_GET1\_CERT(3openssl)