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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'PKCS12\_SAFEABAG\_get0\_p8inf.3ossl' command**

```
$ man PKCS12_SAFEABAG_get0_p8inf.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_SAFEABAG_get0_bag_obj(const PKCS12_SAFEABAG *bag);  
const ASN1_OBJECT *PKCS12_SAFEABAG_get0_bag_type(const PKCS12_SAFEABAG *bag);  
X509 *PKCS12_SAFEABAG_get1_cert(const PKCS12_SAFEABAG *bag);  
X509_CRL *PKCS12_SAFEABAG_get1_crl(const PKCS12_SAFEABAG *bag);  
const STACK_OF(PKCS12_SAFEABAG) *PKCS12_SAFEABAG_get0_safes(const PKCS12_SAFEABAG *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_get0_nid()` and `PKCS12_SAFEBAG_get0_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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