



*Full credit is given to the above companies including the OS that this PDF file was generated!*

## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'OCSP\_id\_cmp.3ossl' command***

***\$ man OCSP\_id\_cmp.3ossl***

OCSP\_CERT\_TO\_ID(3ossl)      OpenSSL      OCSP\_CERT\_TO\_ID(3ossl)

### NAME

OCSP\_cert\_to\_id, OCSP\_cert\_id\_new, OCSP\_CERTID\_free,  
OCSP\_id\_issuer\_cmp, OCSP\_id\_cmp, OCSP\_id\_get0\_info - OCSP certificate  
ID utility functions

### SYNOPSIS

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

```
OCSP_CERTID *OCSP_cert_to_id(const EVP_MD *dgst,  
                             X509 *subject, X509 *issuer);
```

```
OCSP_CERTID *OCSP_cert_id_new(const EVP_MD *dgst,  
                               X509_NAME *issuerName,  
                               ASN1_BIT_STRING *issuerKey,  
                               ASN1_INTEGER *serialNumber);
```

```
void OCSP_CERTID_free(OCSP_CERTID *id);
```

```
int OCSP_id_issuer_cmp(const OCSP_CERTID *a, const OCSP_CERTID *b);
```

```
int OCSP_id_cmp(const OCSP_CERTID *a, const OCSP_CERTID *b);
```

```
int OCSP_id_get0_info(ASN1_OCTET_STRING **piNameHash, ASN1_OBJECT **pmd,  
ASN1_OCTET_STRING **pikeyHash,  
ASN1_INTEGER **pserial, OCSP_CERTID *cid);
```

## DESCRIPTION

OCSP\_cert\_to\_id() creates and returns a new OCSP\_CERTID structure using message digest dgst for certificate subject with issuer issuer. If dgst is NULL then SHA1 is used.

OCSP\_cert\_id\_new() creates and returns a new OCSP\_CERTID using dgst and issuer name issuerName, issuer key hash issuerKey and serial number serialNumber.

OCSP\_CERTID\_free() frees up id.

OCSP\_id\_cmp() compares OCSP\_CERTID a and b.

OCSP\_id\_issuer\_cmp() compares only the issuer name of OCSP\_CERTID a and b.

OCSP\_id\_get0\_info() returns the issuer name hash, hash OID, issuer key hash and serial number contained in cid. If any of the values are not required the corresponding parameter can be set to NULL.

## RETURN VALUES

OCSP\_cert\_to\_id() and OCSP\_cert\_id\_new() return either a pointer to a valid OCSP\_CERTID structure or NULL if an error occurred.

OCSP\_id\_cmp() and OCSP\_id\_issuer\_cmp() returns zero for a match and nonzero otherwise.

OCSP\_CERTID\_free() does not return a value.

OCSP\_id\_get0\_info() returns 1 for success and 0 for failure.

## NOTES

OCSP clients will typically only use OCSP\_cert\_to\_id() or OCSP\_cert\_id\_new(): the other functions are used by responder applications.

The values returned by OCSP\_id\_get0\_info() are internal pointers and MUST NOT be freed up by an application: they will be freed when the corresponding OCSP\_CERTID structure is freed.

## SEE ALSO

crypto(7), OCSP\_request\_add1\_nonce(3), OCSP\_REQUEST\_new(3), OCSP\_resp\_find\_status(3), OCSP\_response\_status(3), OCSP\_sendreq\_new(3)

## COPYRIGHT

Copyright 2015-2016 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the Apache License 2.0 (the "License"). You may not use this file except in compliance with the License. You can obtain a copy in the file LICENSE in the source distribution or at <https://www.openssl.org/source/license.html>.

3.0.7                    2023-07-13            OCSP\_CERT\_TO\_ID(3openssl)