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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'OCSP_cert_to_id.3ossl' command

\$ man OCSP_cert_to_id.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)

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