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Rocky Enterprise Linux 9.2 Manual Pages on command 'OCSP_request_sign.3ossl'

\$ man OCSP_request_sign.3ossl

OCSP_REQUEST_NEW(3ossl) OpenSSL OCSP_REQUEST_NEW(3ossl)

NAME

OCSP_REQUEST_new, OCSP_REQUEST_free, OCSP_request_add0_id,
OCSP_request_sign, OCSP_request_add1_cert, OCSP_request_onereq_count,
OCSP_request_onereq_get0 - OCSP request functions

SYNOPSIS

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

```
OCSP_REQUEST *OCSP_REQUEST_new(void);
```

```
void OCSP_REQUEST_free(OCSP_REQUEST *req);
```

```
OCSP_ONEREQ *OCSP_request_add0_id(OCSP_REQUEST *req, OCSP_CERTID *cid);
```

```
int OCSP_request_sign(OCSP_REQUEST *req,  
                  X509 *signer, EVP_PKEY *key, const EVP_MD *dgst,  
                  STACK_OF(X509) *certs, unsigned long flags);
```

```
int OCSP_request_add1_cert(OCSP_REQUEST *req, X509 *cert);
```

```
int OCSP_request_onereq_count(OCSP_REQUEST *req);
```

```
OCSP_ONEREQ *OCSP_request_onereq_get0(OCSP_REQUEST *req, int i);
```

DESCRIPTION

`OCSP_REQUEST_new()` allocates and returns an empty `OCSP_REQUEST` structure.

`OCSP_REQUEST_free()` frees up the request structure `req`.

`OCSP_request_add0_id()` adds certificate ID `cid` to `req`. It returns the `OCSP_ONEREQ` structure added so an application can add additional extensions to the request. The `id` parameter **MUST NOT** be freed up after the operation.

`OCSP_request_sign()` signs OCSP request `req` using certificate signer, private key `key`, digest `dgst` and additional certificates `certs`. If the flags option `OCSP_NOCERTS` is set then no certificates will be included in the request.

`OCSP_request_add1_cert()` adds certificate `cert` to request `req`. The application is responsible for freeing up `cert` after use.

`OCSP_request_onereq_count()` returns the total number of `OCSP_ONEREQ` structures in `req`.

`OCSP_request_onereq_get0()` returns an internal pointer to the `OCSP_ONEREQ` contained in `req` of index `i`. The index value `i` runs from 0 to `OCSP_request_onereq_count(req) - 1`.

RETURN VALUES

OCSP_REQUEST_new() returns an empty OCSP_REQUEST structure or NULL if an error occurred.

OCSP_request_add0_id() returns the OCSP_ONEREQ structure containing cid or NULL if an error occurred.

OCSP_request_sign() and OCSP_request_add1_cert() return 1 for success and 0 for failure.

OCSP_request_onereq_count() returns the total number of OCSP_ONEREQ structures in req.

OCSP_request_onereq_get0() returns a pointer to an OCSP_ONEREQ structure or NULL if the index value is out of range.

NOTES

An OCSP request structure contains one or more OCSP_ONEREQ structures corresponding to each certificate.

OCSP_request_onereq_count() and OCSP_request_onereq_get0() are mainly used by OCSP responders.

EXAMPLES

Create an OCSP_REQUEST structure for certificate cert with issuer issuer:

```
OCSP_REQUEST *req;
```

```
OCSP_ID *cid;
```

```
req = OCSP_REQUEST_new();
```

```
if (req == NULL)
```

```
    /* error */
```

```
cid = OCSP_cert_to_id(EVP_sha1(), cert, issuer);
```

```
if (cid == NULL)
    /* error */

if (OCSP_REQUEST_add0_id(req, cid) == NULL)
    /* error */

/* Do something with req, e.g. query responder */

OCSP_REQUEST_free(req);
```

SEE ALSO

crypto(7), OCSP_cert_to_id(3), OCSP_request_add1_nonce(3),
OCSP_resp_find_status(3), OCSP_response_status(3), OCSP_sendreq_new(3)

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