



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_request_sign.3oss1' command

\$ man OCSP_request_sign.3oss1

OCSP_REQUEST_NEW(3oss1) OpenSSL OCSP_REQUEST_NEW(3oss1)

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)

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_REQUEST_NEW(3ossl)