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

$ man OCSP_REQUEST_new.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 or 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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