

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** and -1 on error.

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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