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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'OCSP\_sendreq\_bio.3ossl' command**

**\$ man OCSP\_sendreq\_bio.3ossl**

OCSP\_SENDREQ\_NEW(3ossl)      OpenSSL      OCSP\_SENDREQ\_NEW(3ossl)

### NAME

OCSP\_REQ\_CTX, OCSP\_sendreq\_new, OCSP\_sendreq\_nbio, OCSP\_sendreq\_bio, OCSP\_REQ\_CTX\_i2d, OCSP\_REQ\_CTX\_add1\_header, OCSP\_REQ\_CTX\_free, OCSP\_set\_max\_response\_length, OCSP\_REQ\_CTX\_set1\_req - OCSP responder query functions

### SYNOPSIS

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

```
OSSL_HTTP_REQ_CTX *OCSP_sendreq_new(BIO *io, const char *path,  
                                     const OCSP_REQUEST *req, int buf_size);
```

```
OCSP_RESPONSE *OCSP_sendreq_bio(BIO *io, const char *path, OCSP_REQUEST *req);
```

The following functions have been deprecated since OpenSSL 3.0, and can be hidden entirely by defining OPENSSL\_API\_COMPAT with a suitable version value, see openssl\_user\_macros(7):

```
typedef OSSL_HTTP_REQ_CTX OCSP_REQ_CTX;
```

```
int OCSP_sendreq_nbio(OCSP_RESPONSE **presp, OSSL_HTTP_REQ_CTX *rctx);
```

```
int OCSP_REQ_CTX_i2d(OCSP_REQ_CTX *rctx, const ASN1_ITEM *it, ASN1_VALUE *req);
```

```
int OCSP_REQ_CTX_add1_header(OCSP_REQ_CTX *rctx,  
                             const char *name, const char *value);
```

```
void OCSP_REQ_CTX_free(OCSP_REQ_CTX *rctx);
```

```
void OCSP_set_max_response_length(OCSP_REQ_CTX *rctx, unsigned long len);
```

```
int OCSP_REQ_CTX_set1_req(OCSP_REQ_CTX *rctx, const OCSP_REQUEST *req);
```

### DESCRIPTION

These functions perform an OCSP POST request / response transfer over HTTP, using the HTTP request functions described in `OSSL_HTTP_REQ_CTX(3)`.

The function `OCSP_sendreq_new()` builds a complete `OSSL_HTTP_REQ_CTX` structure with the BIO io to be used for requests and response, the URL path `path`, optionally the OCSP request `req`, and a response header maximum line length of `buf_size`. If `buf_size` is zero a default value of 4KiB is used. The `req` may be set to NULL and provided later using `OCSP_REQ_CTX_set1_req()` or `OSSL_HTTP_REQ_CTX_set1_req(3)`. The io and path arguments to `OCSP_sendreq_new()` correspond to the components of the URL. For example if the responder URL is

"http://example.com/ocspreq" the BIO io should have been connected to host "example.com" on port 80 and path should be set to "/ocspreq".

`OCSP_sendreq_nbio()` attempts to send the request prepared in `rctx` and to gather the response via HTTP, using the BIO io and path that were given when calling `OCSP_sendreq_new()`. If the operation gets completed it assigns the response, a pointer to a `OCSP_RESPONSE` structure, in `*presp`. The function may need to be called again if its result is -1, which indicates `BIO_should_retry(3)`. In such a case it is advisable to sleep a little in between, using `BIO_wait(3)` on the read BIO to prevent a busy loop.

`OCSP_sendreq_bio()` combines `OCSP_sendreq_new()` with as many calls of `OCSP_sendreq_nbio()` as needed and then `OCSP_REQ_CTX_free()`, with a response header maximum line length 4k. It waits indefinitely on a response. It does not support setting a timeout or adding headers and is retained for compatibility; use `OSSL_HTTP_transfer(3)` instead.

`OCSP_REQ_CTX_i2d(rctx, it, req)` is equivalent to the following:

```
OSSL_HTTP_REQ_CTX_set1_req(rctx, "application/ocsp-request", it, req)
```

`OCSP_REQ_CTX_set1_req(rctx, req)` is equivalent to the following:

```
OSSL_HTTP_REQ_CTX_set1_req(rctx, "application/ocsp-request",  
    ASN1_ITEM_rptr(OCSP_REQUEST),  
    (const ASN1_VALUE *)req)
```

The deprecated type and the remaining deprecated functions have been

superseded by the following equivalents: OCSP\_REQ\_CTX by  
OSSL\_HTTP\_REQ\_CTX(3), OCSP\_REQ\_CTX\_add1\_header() by  
OSSL\_HTTP\_REQ\_CTX\_add1\_header(3), OCSP\_REQ\_CTX\_free() by  
OSSL\_HTTP\_REQ\_CTX\_free(3), and OCSP\_set\_max\_response\_length() by  
OSSL\_HTTP\_REQ\_CTX\_set\_max\_response\_length(3).

## RETURN VALUES

OCSP\_sendreq\_new() returns a valid OSSL\_HTTP\_REQ\_CTX structure or NULL  
if an error occurred.

OCSP\_sendreq\_nbio() returns 1 for success, 0 on error, -1 if retry is  
needed.

OCSP\_sendreq\_bio() returns the OCSP\_RESPONSE structure sent by the  
responder or NULL if an error occurred.

## SEE ALSO

OSSL\_HTTP\_REQ\_CTX(3), OSSL\_HTTP\_transfer(3), OCSP\_cert\_to\_id(3),  
OCSP\_request\_add1\_nonce(3), OCSP\_REQUEST\_new(3),  
OCSP\_resp\_find\_status(3), OCSP\_response\_status(3)

## HISTORY

OCSP\_REQ\_CTX, OCSP\_REQ\_CTX\_i2d(), OCSP\_REQ\_CTX\_add1\_header(),  
OCSP\_REQ\_CTX\_free(), OCSP\_set\_max\_response\_length(), and  
OCSP\_REQ\_CTX\_set1\_req() were deprecated in OpenSSL 3.0.

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