NAME

OSSL_CMP_MSG_http_perform - client-side HTTP(S) transfer of a CMP request-response pair

SYNOPSIS

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

OSSL_CMP_MSG *OSSL_CMP_MSG_http_perform(OSSL_CMP_CTX *ctx,
                                        const OSSL_CMP_MSG *req);
```

DESCRIPTION

OSSL_CMP_MSG_http_perform() sends the given PKIMessage *req* to the CMP server specified in *ctx* via **OSSL_CMP_CTX_set1_server**(3) and optionally **OSSL_CMP_CTX_set_serverPort**(3), using any "CMP alias" optionally specified via **OSSL_CMP_CTX_set1_serverPath**(3). The default port is 80 for HTTP and 443 for HTTPS; the default path is "/". On success the function returns the server's response PKIMessage.

The function makes use of any HTTP callback function set via **OSSL_CMP_CTX_set_http_cb**(3). It respects any timeout value set via **OSSL_CMP_CTX_set_option**(3) with an **OSSL_CMP_OPT_MSG_TIMEOUT** argument. It also respects any HTTP(S) proxy options set via **OSSL_CMP_CTX_set1_proxy**(3) and **OSSL_CMP_CTX_set1_no_proxy**(3) and the respective environment variables. Proxying plain HTTP is supported directly, while using a proxy for HTTPS connections requires a suitable callback function such as **OSSL_HTTP_proxy_connect**(3).

NOTES

CMP is defined in RFC 4210. HTTP transfer for CMP is defined in RFC 6712.

RETURN VALUES

OSSL_CMP_MSG_http_perform() returns a CMP message on success, else NULL.

SEE ALSO

OSSL_CMP_CTX_new(3), **OSSL_HTTP_proxy_connect**(3).

HISTORY

The OpenSSL CMP support was added in OpenSSL 3.0.

COPYRIGHT