

## NAME

gnutls\_rehandshake - API function

## SYNOPSIS

```
#include <gnutls/gnutls.h>
```

```
int gnutls_rehandshake(gnutls_session_t session);
```

## ARGUMENTS

gnutls\_session\_t session

is a **gnutls\_session\_t** type.

## DESCRIPTION

This function can only be called in server side, and instructs a TLS 1.2 or earlier client to renegotiate parameters (perform a handshake), by sending a hello request message.

If this function succeeds, the calling application should call **gnutls\_record\_recv()** until **GNUTLS\_E\_REHANDSHAKE** is returned to clear any pending data. If the **GNUTLS\_E\_REHANDSHAKE** error code is not seen, then the handshake request was not followed by the peer (the TLS protocol does not require the client to do, and such compliance should be handled by the application protocol).

Once the **GNUTLS\_E\_REHANDSHAKE** error code is seen, the calling application should proceed to calling **gnutls\_handshake()** to negotiate the new parameters.

If the client does not wish to renegotiate parameters he may reply with an alert message, and in that case the return code seen by subsequent **gnutls\_record\_recv()** will be **GNUTLS\_E\_WARNING\_ALERT\_RECEIVED** with the specific alert being **GNUTLS\_A\_NO\_RENEGOTIATION**. A client may also choose to ignore this request.

Under TLS 1.3 this function is equivalent to **gnutls\_session\_key\_update()** with the **GNUTLS\_KU\_PEER** flag. In that case subsequent calls to **gnutls\_record\_recv()** will not return **GNUTLS\_E\_REHANDSHAKE**, and calls to **gnutls\_handshake()** in server side are a no-op.

This function always fails with **GNUTLS\_E\_INVALID\_REQUEST** when called in client side.

## RETURNS

**GNUTLS\_E\_SUCCESS** on success, otherwise a negative error code.

## REPORTING BUGS



Report bugs to <bugs@gnutls.org>.

Home page: <https://www.gnutls.org>

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## **SEE ALSO**

The full documentation for **gnutls** is maintained as a Texinfo manual. If the /usr/local/share/doc/gnutls/ directory does not contain the HTML form visit

<https://www.gnutls.org/manual/>