

**NAME**

gnutls\_idna\_map - API function

**SYNOPSIS**

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

```
int gnutls_idna_map(const char * input, unsigned ilen, gnutls_datum_t * out, unsigned flags);
```

**ARGUMENTS**

const char \* input

contain the UTF-8 formatted domain name

unsigned ilen the length of the provided string

gnutls\_datum\_t \* out

the result in an null-terminated allocated string

unsigned flags

should be zero

**DESCRIPTION**

This function will convert the provided UTF-8 domain name, to its IDNA mapping in an allocated variable. Note that depending on the flags the used gnutls library was compiled with, the output of this function may vary (i.e., may be IDNA2008, or IDNA2003).

To force IDNA2008 specify the flag **GNUTLS\_IDNA\_FORCE\_2008**. In the case GnuTLS is not compiled with the necessary dependencies, **GNUTLS\_E\_UNIMPLEMENTED\_FEATURE** will be returned to indicate that gnutls is unable to perform the requested conversion.

Note also, that this function will return an empty string if an empty string is provided as input.

**RETURNS**

**GNUTLS\_E\_INVALID\_UTF8\_STRING** on invalid UTF-8 data, or 0 on success.

**SINCE**

3.5.8

**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/>