

**NAME**

gnutls\_certificate\_set\_x509\_simple\_pkcs12\_mem - API function

**SYNOPSIS**

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

```
int gnutls_certificate_set_x509_simple_pkcs12_mem(gnutls_certificate_credentials_t res, const
gnutls_datum_t * p12blob, gnutls_x509_cert_fmt_t type, const char * password);
```

**ARGUMENTS**

gnutls\_certificate\_credentials\_t res  
is a **gnutls\_certificate\_credentials\_t** type.

const gnutls\_datum\_t \* p12blob  
the **PKCS12** blob.

gnutls\_x509\_cert\_fmt\_t type  
is PEM or DER of the *pkcs12file* .

const char \* password  
optional password used to decrypt **PKCS12** file, bags and keys.

**DESCRIPTION**

This function sets a certificate/private key pair and/or a CRL in the `gnutls_certificate_credentials_t` type. This function may be called more than once (in case multiple keys/certificates exist for the server).

Encrypted **PKCS12** bags and **PKCS8** private keys are supported. However, only password based security, and the same password for all operations, are supported.

**PKCS12** file may contain many keys and/or certificates, and this function will try to auto-detect based on the key ID the certificate and key pair to use. If the **PKCS12** file contain the issuer of the selected certificate, it will be appended to the certificate to form a chain.

If more than one private keys are stored in the **PKCS12** file, then only one key will be read (and it is undefined which one).

It is believed that the limitations of this function is acceptable for most usage, and that any more flexibility would introduce complexity that would make it harder to use this functionality at all.

Note that, this function by default returns zero on success and a negative value on error. Since 3.5.6, when the flag **GNUTLS\_CERTIFICATE\_API\_V2** is set using **gnutls\_certificate\_set\_flags()** it returns an index (greater or equal to zero). That index can be used to other functions to refer to the added key-pair.

## RETURNS

On success this functions returns zero, and otherwise a negative value on error (see above for modifying that behavior).

## SINCE

2.8.0

## 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/>