

## NAME

gnutls\_pkcs7\_verify\_direct - API function

## SYNOPSIS

```
#include <gnutls/pkcs7.h>
```

```
int gnutls_pkcs7_verify_direct(gnutls_pkcs7_t pkcs7, gnutls_x509_cert_t signer, unsigned idx, const gnutls_datum_t * data, unsigned flags);
```

## ARGUMENTS

gnutls\_pkcs7\_t pkcs7

should contain a **gnutls\_pkcs7\_t** type

gnutls\_x509\_cert\_t signer

the certificate believed to have signed the structure

unsigned idx the index of the signature info to check

const gnutls\_datum\_t \* data

The data to be verified or **NULL**

unsigned flags

Zero or an OR list of **gnutls\_certificate\_verify\_flags**

## DESCRIPTION

This function will verify the provided data against the signature present in the SignedData of the PKCS 7 structure. If the data provided are NULL then the data in the encapsulatedContent field will be used instead.

Note that, unlike **gnutls\_pkcs7\_verify()** this function does not verify the key purpose of the signer. It is expected for the caller to verify the intended purpose of the **signer** -e.g., via **gnutls\_x509\_cert\_get\_key\_purpose\_oid()**, or **gnutls\_x509\_cert\_check\_key\_purpose()**.

Note also, that since GnuTLS 3.5.6 this function introduces checks in the end certificate ( *signer* ), including time checks and key usage checks.

## RETURNS

On success, **GNUTLS\_E\_SUCCESS** (0) is returned, otherwise a negative error value. A verification error results to a **GNUTLS\_E\_PK\_SIG\_VERIFY\_FAILED** and the lack of encapsulated data to verify to a **GNUTLS\_E\_REQUESTED\_DATA\_NOT\_AVAILABLE**.

**SINCE**

3.4.2

**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/>