

NAME

openssl-pkcs7, pkcs7 – PKCS#7 utility

SYNOPSIS

```
openssl pkcs7 [-help] [-inform PEM|DER] [-outform PEM|DER] [-in filename] [-out filename]
[-print_certs] [-text] [-noout] [-engine id]
```

DESCRIPTION

The **pkcs7** command processes PKCS#7 files in DER or PEM format.

OPTIONS**-help**

Print out a usage message.

-inform DER|PEM

This specifies the input format. **DER** format is DER encoded PKCS#7 v1.5 structure. **PEM** (the default) is a base64 encoded version of the DER form with header and footer lines.

-outform DER|PEM

This specifies the output format, the options have the same meaning and default as the **-inform** option.

-in filename

This specifies the input filename to read from or standard input if this option is not specified.

-out filename

Specifies the output filename to write to or standard output by default.

-print_certs

Prints out any certificates or CRLs contained in the file. They are preceded by their subject and issuer names in one line format.

-text

Prints out certificates details in full rather than just subject and issuer names.

-noout

Don't output the encoded version of the PKCS#7 structure (or certificates is **-print_certs** is set).

-engine id

Specifying an engine (by its unique **id** string) will cause **pkcs7** to attempt to obtain a functional reference to the specified engine, thus initialising it if needed. The engine will then be set as the default for all available algorithms.

EXAMPLES

Convert a PKCS#7 file from PEM to DER:

```
openssl pkcs7 -in file.pem -outform DER -out file.der
```

Output all certificates in a file:

```
openssl pkcs7 -in file.pem -print_certs -out certs.pem
```

NOTES

The PEM PKCS#7 format uses the header and footer lines:

```
-----BEGIN PKCS7-----
-----END PKCS7-----
```

For compatibility with some CAs it will also accept:

```
-----BEGIN CERTIFICATE-----
-----END CERTIFICATE-----
```

RESTRICTIONS

There is no option to print out all the fields of a PKCS#7 file.

This PKCS#7 routines only understand PKCS#7 v 1.5 as specified in RFC2315 they cannot currently parse,

for example, the new CMS as described in RFC2630.

SEE ALSO

crl2pkcs7(1)

COPYRIGHT

Copyright 2000–2017 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the OpenSSL license (the “License”). You may not use this file except in compliance with the License. You can obtain a copy in the file LICENSE in the source distribution or at [<https://www.openssl.org/source/license.html>](https://www.openssl.org/source/license.html).