

**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 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\(1\)](#)*

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