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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'openssl-list.1oss1' command**

### **\$ man openssl-list.1oss1**

OPENSSL-LIST(1oss1)          OpenSSL          OPENSSL-LIST(1oss1)

#### NAME

openssl-list - list algorithms and features

#### SYNOPSIS

```
openssl list [-help] [-verbose] [-select name] [-1] [-commands]
[-standard-commands] [-digest-algorithms] [-digest-commands]
[-kdf-algorithms] [-mac-algorithms] [-random-instances]
[-random-generators] [-cipher-algorithms] [-cipher-commands]
[-encoders] [-decoders] [-key-managers] [-key-exchange-algorithms]
[-kem-algorithms] [-signature-algorithms] [-asymcipher-algorithms]
[-public-key-algorithms] [-public-key-methods] [-store-loaders]
[-providers] [-engines] [-disabled] [-objects] [-options command]
[-provider name] [-provider-path path] [-propquery propq]
```

#### DESCRIPTION

This command is used to generate list of algorithms or disabled features.

#### OPTIONS

-help

Display a usage message.

-verbose

Displays extra information. The options below where verbosity applies say a bit more about what that means.

-select name

Only list algorithms that match this name.

-1 List the commands, digest-commands, or cipher-commands in a single column. If used, this option must be given first.

-commands

Display a list of standard commands.

-standard-commands

List of standard commands.

-digest-commands

This option is deprecated. Use digest-algorithms instead.

Display a list of message digest commands, which are typically used as input to the openssl-dgst(1) or openssl-speed(1) commands.

-cipher-commands

This option is deprecated. Use cipher-algorithms instead.

Display a list of cipher commands, which are typically used as input to the openssl-enc(1) or openssl-speed(1) commands.

-cipher-algorithms, -digest-algorithms, -kdf-algorithms,

-mac-algorithms,

Display a list of symmetric cipher, digest, kdf and mac algorithms.

See "Display of algorithm names" for a description of how names are displayed.

In verbose mode, the algorithms provided by a provider will get additional information on what parameters each implementation supports.

-random-instances

List the primary, public and private random number generator details.

-random-generators

Display a list of random number generators. See "Display of algorithm names" for a description of how names are displayed.

-encoders

Display a list of encoders. See "Display of algorithm names" for a description of how names are displayed.

In verbose mode, the algorithms provided by a provider will get

additional information on what parameters each implementation supports.

#### -decoders

Display a list of decoders. See "Display of algorithm names" for a description of how names are displayed.

In verbose mode, the algorithms provided by a provider will get additional information on what parameters each implementation supports.

#### -public-key-algorithms

Display a list of public key algorithms, with each algorithm as a block of multiple lines, all but the first are indented. The options key-exchange-algorithms, kem-algorithms, signature-algorithms, and asykcipher-algorithms will display similar info.

#### -public-key-methods

Display a list of public key methods.

#### -key-managers

Display a list of key managers.

#### -key-exchange-algorithms

Display a list of key exchange algorithms.

#### -kem-algorithms

Display a list of key encapsulation algorithms.

#### -signature-algorithms

Display a list of signature algorithms.

#### -asykcipher-algorithms

Display a list of asymmetric cipher algorithms.

#### -store-loaders

Display a list of store loaders.

#### -providers

Display a list of all loaded providers with their names, version and status.

In verbose mode, the full version and all provider parameters will additionally be displayed.

#### -engines

This option is deprecated.

Display a list of loaded engines.

-disabled

Display a list of disabled features, those that were compiled out of the installation.

-objects

Display a list of built in objects, i.e. OIDs with names. They're listed in the format described in "ASN1 Object Configuration Module" in config(5).

-options command

Output a two-column list of the options accepted by the specified command. The first is the option name, and the second is a one-character indication of what type of parameter it takes, if any.

This is an internal option, used for checking that the documentation is complete.

-provider name

-provider-path path

-propquery propq

See "Provider Options" in openssl(1), provider(7), and property(7).

## Display of algorithm names

Algorithm names may be displayed in one of two manners:

### Legacy implementations

Legacy implementations will simply display the main name of the algorithm on a line of its own, or in the form "<foo " bar>> to show that "foo" is an alias for the main name, "bar"

### Provided implementations

Implementations from a provider are displayed like this if the implementation is labeled with a single name:

foo @ bar

or like this if it's labeled with multiple names:

{ foo1, foo2 } @bar

In both cases, "bar" is the name of the provider.

The -engines, -digest-commands, and -cipher-commands options were deprecated in OpenSSL 3.0.

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