

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]
[-asymciphper-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 **asymcipher-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.

-asymciphper-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.

HISTORY

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

COPYRIGHT

Copyright 2016-2022 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the Apache License 2.0 (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>>.