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 **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.

-asymcipher-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