

# Windows: Software Licensing Management Tool (slmgr)

## Syntax

```
slmgr [MachineName [Username Password]] [Option]
```

## Key

`machinename` The machine to administer, by default the current local machine.

`username` An administrator equivalent user account for the remote computer.

`password` The password for the user account on the remote computer.

`/ato` Activate Windows license and product key against Microsoft's server.

`/atp Confirmation_ID` Activate Windows with user-provided Confirmation ID

`/ckms` Clear the name of KMS server used to default and port to default.

`/cpky` Clear product key from the registry (prevents disclosure attacks)

`/dli` Display the current license information with activation status and partial product key.

`/dlv` Verbose, similar to `-dli` but with more information.

`/dti` Display Installation ID for offline activation

`/ipk Key` Enter a new product key supplied as xxxxx-xxxxx-xxxxx-xxxxx-xxxxx

`/ilc License_file` Install license

`/rilc` Re-install system license files

`/rearm` Reset the evaluation period/licensing status and activation state of the machine

`/skms activationservername:port`

Set the Volume Licensing KMS server and/or the port used for KMS activation  
(where supported by your Windows edition)

`/skhc` Enable KMS host caching (default), this blocks the use of DNS

priority and

weight after the initial discovery of a working KMS host.

If the system can no longer contact the working KMS host, discovery will be attempted again.

`/ckhc` Disable KMS host caching. This setting instructs the client to use DNS auto-discovery

each time it attempts KMS activation (recommended when using priority and weight)

`/sai interval`

Sets the interval in minutes for unactivated clients to attempt KMS connection.

The activation interval must be between 15 minutes and 30 days, although the default (2 hours) is recommended.

The KMS client initially picks up this interval from the registry but switches to the KMS

setting after the first KMS response has been received.

`/sri interval`

Sets the renewal interval in minutes for activated clients to attempt KMS connection.

The renewal interval must be between 15 minutes and 30 days.

This option is set initially on both the KMS server and client sides.

The default is 10080 minutes (7 days).

`/spri` Set the KMS priority to normal (default).

`/cpri` Set the KMS priority to low.

Use this option to minimize contention from KMS in a co-hosted environment.

Note that this could lead to KMS starvation, depending on what other applications

or server roles are active. Use with care.

`/sprt port`

Sets the port on which the KMS host listens for client activation requests. The default TCP port is 1688.

`/sdns` Enable DNS publishing by the KMS host (default).

`/cdns` Disable DNS publishing by the KMS host.

`/upk` Uninstall current installed product key and return license status back to trial state.

`/xpr` Show the expiry date of current license (if not permanently activated)

Token-based activation:

`/lil` List the installed token-based activation issuance licenses.

`/ril ILID ILvID`

Remove an installed token-based activation issuance license.

`/stao` Set the Token-based Activation Only flag, disabling automatic KMS activation.

`/ctao` Clear the Token-based Activation Only flag (default), enabling automatic KMS activation.

`/ltc` List valid token-based activation certificates that can activate installed software.

`/fta Certificate Thumbprint [PIN]`

Force token-based activation using the identified certificate.

The optional personal identification number (PIN) is provided to unlock the private key without a PIN prompt when using certificates that are protected by hardware (for example, smart cards).

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