

# License files

*The information on this page refers to LM-X v5.0, which added the upgrade license type. If you are using an older version of LM-X, please refer to [documentation for earlier versions](#).*

Licenses are text files that can be accessed by a licensed application in two distinct ways:

- Locally, from a local hard drive
- Remotely, from a dedicated license server across a network

If you open a license file in a text editor, you will see a definition for the license in the following format:

```
FEATURE Feature_Name
{
VENDOR = XYZ
...
COUNT = 5
...
}
```

When the COUNT keyword exists in the license file, the license is intended for use on a license server; otherwise, the license is considered to be local and can be used directly with the protected application. The example above indicates that there are 5 network licenses for the application.

The following is an example of a local license file (the actual key has been abbreviated):

```
FEATURE f1
{
VENDOR = XFORMATION
VERSION = 1.5
END = 2015-01-01
KEY = F2DNR9K...
}
```

The following is an example of a network license file (the actual key has been abbreviated):

```
FEATURE f1
{
VENDOR = XFORMATION
VERSION = 1.5
END = 2015-01-01
KEY = F2DNR9K...
COUNT = 12
}
```

The license file path may be set in the license server configuration file. See [License server configuration file](#) for more information about specifying the license server path.

The vendor may include various optional settings in a license that supply license information or control how the license may be used. The settings that can be included in a license are shown below.

```

VERSION = (Version number of the feature.)
LICENSEE = (User or company to whom the license was issued.)
START = (Date on which the feature becomes valid.)
END = (Date on which the feature expires.)
MAINTENANCE_START = (Date the license maintenance plan begins.)
MAINTENANCE_END = (Date the license maintenance plan expires.)
ISSUED = (Date the license was created.)
SN = (Custom serial number for the license.)
DATA = (Additional information regarding the license.)
COMMENT = (Additional information regarding the license.)
OPTIONS = (Additional licensing options.)
PLATFORMS = (Platform(s) to which usage is restricted.)
COUNT = (Number of network licenses that can be issued simultaneously.)
TOKEN_DEPENDENCY = (Reference to a real license upon which a token license depends.)
SOFTLIMIT = (Number of "overdraft" licenses.)
HAL_SERVERS = 3 (Enables redundant servers, or High Availability Servers.)
BORROW = (Number of hours a borrowed license may be used.)
GRACE = (Number of hours a grace license may be used.)
HOLD = (Number of minutes licenses are held before being checked in.)
USERBASED = (Number of licenses reserved for named users.)
HOSTBASED = (Number of licenses reserved for named hosts.)
TIME_ZONES = -12 to 13 (Allowed time zones, relative to GMT.)
SHARE = HOST|USER|CUSTOM or TERMINALSERVER and/or VIRTUAL (Type of license sharing in use.)
SYSTEMCLOCKCHECK = TRUE|FALSE (Enables/disables the system clock check.)
HOSTID_MATCH_RATE = (Percentage of hostids that must match for successful hostid verification.)

VERSION = 0.0 to 9999.9999 (Version number of the feature.)
LICENSEE = "string" (User or company to whom the license was issued.)
START = YYYY-MM-DD (Date on which the feature becomes valid.)
END = YYYY-MM-DD (Date on which the feature expires.)
MAINTENANCE_START = YYYY-MM-DD (Date the license maintenance plan begins.)
MAINTENANCE_END = YYYY-MM-DD (Date the license maintenance plan expires.)
ISSUED = YYYY-MM-DD (Date on which the license was created.)
SN = "string" (Custom serial number for the license.)
DATA = "string" (Additional information regarding the license.)
COMMENT = "string" (Additional information regarding the license.)
OPTIONS = "string" (Additional licensing options for the license.)

COUNT = 1 to 2147483647 or UNLIMITED (Number of network licenses that can be issued simultaneously)

PLATFORMS = "platform strings" (Platform(s) to which usage is restricted.)

TOKEN_DEPENDENCY = "FEATURE=FeatureName VERSION=0.0 to 9999.9999 COUNT=1 to 2147483647"
KEYTYPE = EXCLUSIVE or ADDITIVE or UPGRADE or TOKEN (Reference to a real license upon which a token license depends.)
SOFTLIMIT = 5 (Number of "overdraft" licenses.)
HAL_SERVERS = 3 (Enables redundant servers, or High Availability Servers.)
BORROW = 1 to 8760 (Number of hours a borrowed license may be used.)
GRACE = 1 to 168 (Number of hours a grace license may be used.)
HOLD = 1 to 1440 (Number of minutes licenses are held before being checked in.)
USERBASED = 1 to 2147483647 or ALL (Number of licenses reserved for named users.)
HOSTBASED = 1 to 2147483647 or ALL (Number of licenses reserved for named hosts.)
TIME_ZONES = -12 to 13 (Allowed time zones, relative to GMT.)

SHARE = HOST|USER|CUSTOM or TERMINALSERVER and/or VIRTUAL (Type of license sharing in use.)

SYSTEMCLOCKCHECK = TRUE|FALSE (Enables/disables the system clock check.)
HOSTID_MATCH_RATE = 0 to 100 (Percentage of hostids that must match for successful hostid verification.)

```

**Note:** If there are multiple license files that contain the same feature (for example, a license file that contains "feature f1 version 1.0" and another license file that contains "feature f1 version 1.5"), LM-X will only use the first license file that is read. Any other license files that contain the same feature will be ignored. If this occurs, you will see a warning message in the [license server log](#) that informs you which license files contain the same feature.

In such cases, you should delete the license files that are not needed or [remove the license file from the search path](#) so the unneeded license files are not read.