

SafeGuard LM Features and Specifications

- Persistent Security
 - Developer of SafeGuard LM since 2009
 - SafeGuard LM 6.5 released February 2021
 - SafeGuard LM Product Activation Server

SafeGuard LM Features and Specifications

- License Models
 - Node-locked (external license file)
 - Node-locked (internal license file)
 - Floating/Concurrent
 - Product Activation Server

SafeGuard LM Features and Specifications

- Node-locked
 - Locked to a single computer attribute such as: MAC address, Hostname, IP Address, Username, Country code, Volume Serial Number, Linux Host ID, Macintosh Serial Number, “any” Host ID, Vendor defined Host ID, others...

SafeGuard LM Features and Specifications

- Floating/Concurrent
 - License Server locked to MAC address or vendor defined host ID
 - Licenses are counted
 - License server defaults to 256 concurrent users (can easily be increased to many thousands)
 - Serves licenses for a single machine, LAN, WAN or over the Internet

SafeGuard LM Features and Specifications

- Node-locked (External vs Internal)
 - External licenses store licensed components in a text file stored on disk. Human readable by anyone having read access to the file.
 - Internal licenses are stored inside the application executable file. Encrypted, unreadable except through the application interface. Functionally identical to external license files.

SafeGuard LM Features and Specifications

- License File Components
 - Component name
 - Component version
 - Component ID
 - Component ID Type
 - Component count (floating only)
 - Component expiration date
 - Component certificate

SafeGuard LM Features and Specifications

- Component Name
 - The name of the licensed component or feature
 - Referencing the application, a feature or extension of the application you wish to control access

SafeGuard LM Features and Specifications

- Component Version
 - The version of the application or extension being licensed
 - Version must be numeric: 1, 1.0, 1.2, etc.

SafeGuard LM Features and Specifications

- Component ID
 - The machine-specific ID the component or license server is locked to
 - Not all architectures support the same IDs
 - Some are more secure than others
 - IDs are not necessarily locked to hardware or software. For example, an ID could be an ISO 3166-1 country code

SafeGuard LM Features and Specifications

- Component ID Type
 - Denotes the type of ID to secure the component or license server
 - ID Type of “any” is not locked to anything. However, other fields of the component line are observed such as version number
 - ID Type of “vendor” allows you to provide your own ID Type. It can be anything including a hardware key or fingerprint scanner

SafeGuard LM Features and Specifications

- Component Count (floating licenses only)
 - The total number of licenses
 - The license server will only allow this many instances for a particular component to be checked out at one time

SafeGuard LM Features and Specifications

- Component Expiration Date
 - The last date the component is valid
 - An expiration date of “never” does not time-out

SafeGuard LM Features and Specifications

- Component Certificate
 - The license certificate which is used to validate all other elements of the component line

SafeGuard LM Features and Specifications

- License Server
 - Manages up to 256 licensed components
 - Defaults to 256 concurrent client connections but can be increased up to many thousands
 - Built-in logging of license activity for statistical purposes
 - Automatic / Manual restart
 - Installed as a Windows Service if desired
 - Uses secure encrypted TCP/IP communication

SafeGuard LM Features and Specifications

- License Creation and Tracking
 - SafeGuard Manager
 - Customer license generation
 - Customer and contact generation
 - Customer license retrieval / update
 - Customer and contact retrieval / update

SafeGuard LM Features and Specifications

- Product Activation Server
 - Automatic license fulfillment over the Internet
 - Enable demo and paid licenses
 - Total control over all fulfillment attributes
 - Your software can “call home” all the time or just the first time
 - Remote deactivation of product returns
 - Multi-threaded for performance

SafeGuard LM Features and Specifications

- Supported Languages
 - C / C++ / C#
 - Java
 - Python (3.6.8, 3.7.8 and 3.8.6)
 - Objective C (Cocoa)
 - VB.NET
 - PHP 7
 - AHK (AutoHotKey)
 - MT4 (MetaTrader 4)

SafeGuard LM Features and Specifications

- Localization of Developer Kit
 - English
 - French
 - German
 - Italian
 - Spanish
 - Turkish
 - Korean
 - Portuguese
 - Many more

SafeGuard LM Features and Specifications

- Supported Operating Systems
 - Windows 7 / 8 / 10 +
 - macOS 10.14 +
 - Linux (Ubuntu, CentOS, see full list on website)
 - Linux ARM 32 / 64 bit (Various processor versions)
 - Linux MIPS 32 bit

SafeGuard LM Features and Specifications

- Supported Processors
 - Windows (x86_32)
 - Windows (x86_x64)
 - macOS (x86_64)
 - Linux (x86_32)
 - Linux (x86_64)
 - ARM 32v7l (e11), ARM 64v8-A
 - MIPS 32bit

SafeGuard LM Features and Specifications

- C/C++ Development
 - Windows (Visual Studio Express 2015 or equivalent)
 - macOS (x86_64-apple-darwin17.3.0)
 - Linux (gcc 4.6.3+)

SafeGuard LM Features and Specifications

- Java Development
 - Windows (JRE 1.8 +, JDK 1.8 +)
 - macOS (JRE 1.8 +, JDK 1.8 +)
 - Linux (JRE 1.8 +, JDK 1.8 +)

SafeGuard LM Features and Specifications

- Python Development
 - Windows (Python 3.6.8 / 3.7.8 / 3.8.6)
 - macOS (Python 3.6.8 / 3.7.8 / 3.8.6)
 - Linux (Python 3.6.8 / 3.7.8 / 3.8.6)

SafeGuard LM Features and Specifications

- PHP Development
 - Windows (Not available)
 - macOS (PHP 7.1.11)
 - Linux (PHP 7.1.11)

SafeGuard LM Features and Specifications

- FORTRAN Development
 - Windows (gfortran 6.3.0)
 - macOS (gfortran 6.3.0)
 - Linux (gfortran 6.3.0)
 - Windows (Intel FORTRAN 18.0 (XE 2018))
 - macOS (Intel FORTRAN 18.0 (XE 2018))
 - Linux (Intel FORTRAN 18.0 (XE 2018))

SafeGuard LM Features and Specifications

- Installation Format and Size
 - Windows (zip, ~110MiB)
 - macOS (zip, ~70MiB)
 - Linux (zip, ~120MiB)