SafeGuard LM Features and Specifications

- Persistent Security
  - Developer of SafeGuard LM since 2009
  - SafeGuard LM 5.6 released April 2016
  - 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, UNIX 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
  - Licenses are counted
  - License server defaults to 256 concurrent users (but can easily be increased to your needs)
  - 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(s) 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 ID's

    - Some are more secure than others

    - ID's 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 in which 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
  - ID Type of "vendor" allows you to provide your own ID Type. It can be anything including a hardware key or dongle.

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 timeout

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 64 licensed components
    - Defaults to 256 concurrent client connections but can be changed when starting the server
    - 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 LM (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 web
  - Enable demo and paid licenses
  - Total control over all fulfillment attributes
  - Your software can "phone 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
    - Objective C (Cocoa)
    - VB.NET
    - PHP 5
    - AHK (AutoHotKey)
    - MT5 (MetaTrader 5)

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 XP (SP3), Vista, Win 7 / 8 / 10
    - Mac OS X 10.6.8, 10.7, 10.8, 10.9, 10.10...
    - Linux Raspbian (ARMv6+)
    - Linux (Ubuntu, Centos, see full list on website)

SafeGuard LM Features and Specifications

- Supported Processors
    - Windows (x86_32)
    - Windows (x64)
    - Mac OS X (x86_32)
    - Mac OS X (x86_64)
    - Linux (x86_32)
    - Linux (x86_64)
    - Linux (ARMv6+)

SafeGuard LM Features and Specifications

- C/C++ Development
    - Windows (Visual Studio Express 2010 or equivalent)
    - Mac OS X (gcc 4.2.1+)
    - Linux (gcc 4.6.3+)

SafeGuard LM Features and Specifications

- Java Development
  - Windows (JRE 1.6+/1.7+, JDK 1.6+/1.7+)
  - Mac OS X (JRE 1.6+/1.7+, JDK 1.6+/1.7+)
  - Linux (JRE 1.6+/1.7+, JDK 1.6+/1.7+)

SafeGuard LM Features and Specifications

- Python Development
    - Windows (Python 2.7.3)
    - Mac OS X (Python 2.7.3)
    - Linux (Python 2.7.3)

SafeGuard LM Features and Specifications

- PHP Development
  - Windows (Not available)
  - Mac OS X (PHP 5.6.17)
  - Linux (PHP 5.6.17)

SafeGuard LM Features and Specifications

- FORTRAN Development
    - Windows (gfortran 4.x / 5.x)
    - Mac OS X (gfortran 4.x / 5.x)
    - Linux (gfortran 4.x / 5.x)

SafeGuard LM Features and Specifications

- Installation Format and Size
    - Windows (zip, 14MiB)
    - Mac OS X (zip, 10MiB)
    - Linux (zip, 10MiB)