

Overview

One of the methods sometimes employed to enable the illegitimate use of licensed software is machine cloning. Machine cloning involves copying the entire image of one machine (including your software and its legitimate license) and duplicating it to one or more other machines. If there is no way to detect that the new image is running on different hardware than that on which it was originally installed, multiple instances of the software are available even though only a single license was purchased.

When clone detection is enabled for a Product in Sentinel LDK, the Run-time Environment checks for cloning using the criteria described in this appendix. If cloning is detected, Sentinel LDK disables the license. As a result, the end user is unable to operate the software for which a cloned license has been detected.

This appendix describes the criteria that are built in to Sentinel LDK for clone detection on physical and virtual machines

Physical Machine Clone Detection

Hardware Parts being used for compare:

- HDD Serial Number.
- Motherboard ID.

	Comparison Results				
Characteristics Compared	HDD serial number	Identical	Different	Identical	Different
	Motherboard ID	Identical	Identical	Different	Different
The software is...		launched	launched	launched	disabled

Virtual Machine Clone Detection

Virtual Hardware Parts being used for compare:

- Virtual Mac Address.
- CPU ID.
- UUID (Universally Unique Identifier).

	Comparison Results				
Characteristics Compared	Virtual Mac Address	Identical	Different	Identical\ Different	Identical\ Different
	CPU ID	Identical	Identical\ Different	Different	Identical\ Different
	UUID	Identical	Identical\ Different	Identical\ Different	Different
The software is...		launched	disabled	disabled	disabled