



CrypKey Licensing

This whitepaper provides an overview and answers frequently asked questions on using CrypKey Licensing for OPC Mirror, OPC Pager, and Asset Management Solutions (AMS).

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Introduction

Several Emerson Process Management products use the CrypKey license control system. A product of Kenonics Controls, CrypKey provides security against the unauthorized use of the products it controls.

This white paper provides information on using the CrypKey license control system.

Overview

The following products use the CrypKey license control system:

- OPC Mirror
- OPC Pager
- Asset Management Solutions (AMS)

When one of these products is run for the first time, it displays a “site code” to the user. The user then sends that site code, which is a string of hexadecimal digits, to Emerson Process Management, who generates a CrypKey license code from the site code and sends the license code to the user. When the user types the site code into the appropriate entry field in the product, the product is enabled for use.

Emerson Process Management strives to supply CrypKey license codes within one hour during normal business hours, Central Time (US).

The CrypKey license is valid only on the machine on which it was installed.



FAQ (Frequently Asked Questions)

Why do certain Emerson Process Management products use CrypKey licensing?

These products are able to run inside or outside of DeltaV, PROVOX, and RS3 systems. Because they may run on a variety of systems, they must be licensed separately. CrypKey provides unsurpassed security against unauthorized use of the software.

Can a user move the license to another machine?

Yes. Simply contact the Emerson Process Management Response Center (LicCode.FRSI-Austin@EmersonProcess.com) for help in obtaining a CrypKey license code for the new machine.

Will the product work if it is copied to an identical PC?

No. Crypkey uses sophisticated technology to detect the difference between two computers, even when they have identical hardware.

What parts of a computer does CrypKey use to uniquely identify it?

CrypKey uses only the hard drive. Some other software-based protection schemes use other components that are more likely to change during the life of the computer.

What does CrypKey use to identify the hard drive, the serial number? And what if two computers are configured identically, even with the same serial number?

CrypKey does not use the serial number. CrypKey uses a technology they call "Unique State Dependence" to identify not just the computer, but the instance of your software. When your software is put on a hard drive, the action of installing it causes state changes to the computer, and CrypKey uses this fact to generate a unique number associated with this state. CrypKey adds some intelligent management so that a user can still move the software to another computer or defragment his or her hard drive without causing license problems.

Simply put, CrypKey makes changes to the hard drive to make it "different" from any other hard drive. Even when two computers are "identical", CrypKey creates differences that allow it to determine with certainty whether the computer it is installed on is supposed to be able to run your software and what, if any, limitations should be imposed.

Is CrypKey affected by disk defragmentation, compression, or backup utilities?

No. CrypKey is generally immune to these sorts of programs. However, in the case of SpeedDisk, steps must be taken in order to ensure that the CrypKey licensing files remain unaffected. Contact Emerson Process Management for details. SpeedDisk is a Norton Utilities application, made by Symantec.



What do I do if my hard drive crashes?

In the event of a hard drive crash, contact the Emerson Systems Division Response Center (LicCode.FRSI-Austin@EmersonProcess.com) to obtain a new CrypKey license code after you have installed a new hard drive and have re-installed the software.

Does CrypKey protection fall under any U.S. export restrictions on advanced cryptography applications to certain foreign nations?

No. CrypKey has full over-the-counter status for software sales from the U.S.