

Elite LC

Clave2 Basic Enveloper v1.0.4.0

Developer Guide

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Overview

Clave2 Basic Enveloper helps you complete encryption rapidly to reduce your efforts and time spent on software protection. Abuses of software authoritarian can be prevented without any source code revised while using the Enveloper to bring extra protection code on compiled binary program. It consumes least development time but compromise in protection strength in comparison with API protection which is highly recommended.

Mechanism

There is a big difference between Clave 2 Enveloper v1.0.4.0 and other ordinary products, for Clave 2 enveloper is to bind the shell to internal data of device. Only when the corresponding Clave 2 equipment is plugged in, the software can run normally. Furthermore, Clave 2 enveloper offers several functions of anti-debugging, checking and device runtime detection that hardens the de-shelling and offers better protection.

EXE and DLL of Win32PE file format are the file formats that Clave 2 Enveloper v1.0.4.0 supports.

Added Content

- Added Win_64 related libraries directory for VS(VS2005,VS2008,VS2010,VS2012,VS2013) and Delphi(DelphiXE2, DelphiXE3, DelphiXE4).
- Added LinuxQT 32/64 bit libraries directory.
- Added WinQT 32/64 bit libraries directory.
- Added Delphi2006,Delphi2007, DelphiXE, DelphiXE2, DelphiXE3, DelphiXE4,VS2010,VS2012, VS2013 for Win_86.

Changed Content

- Re-naming libraries under *SDK/API*.

Instructions

When using Clave 2 Enveloper to shell files, you need to select the file, set parameters including binding serial number, background detection and user-defined information.

Additionally, common User password of Clave 2 internal programs should be typed in before shelling.

Following are steps of using shell encryption tool of Clave2 Basic v1.0.4.0 to shell files.

Select a File to Evelope

- (1) Plug in LC device.
- (2) Launch *LCEnveloperGui.exe* as showed in Figure 3-1. Serial number will be showed in square 5.
- (3) Click browse to select or directly drag the file to be shelled into the square which displays the file path. See Figure 3-2.

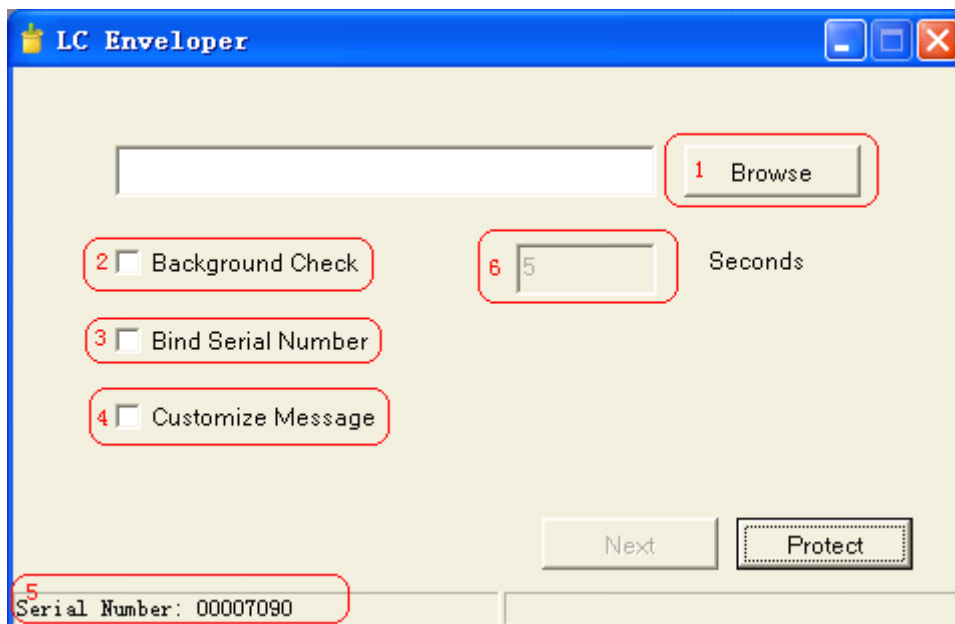


Figure 3-1

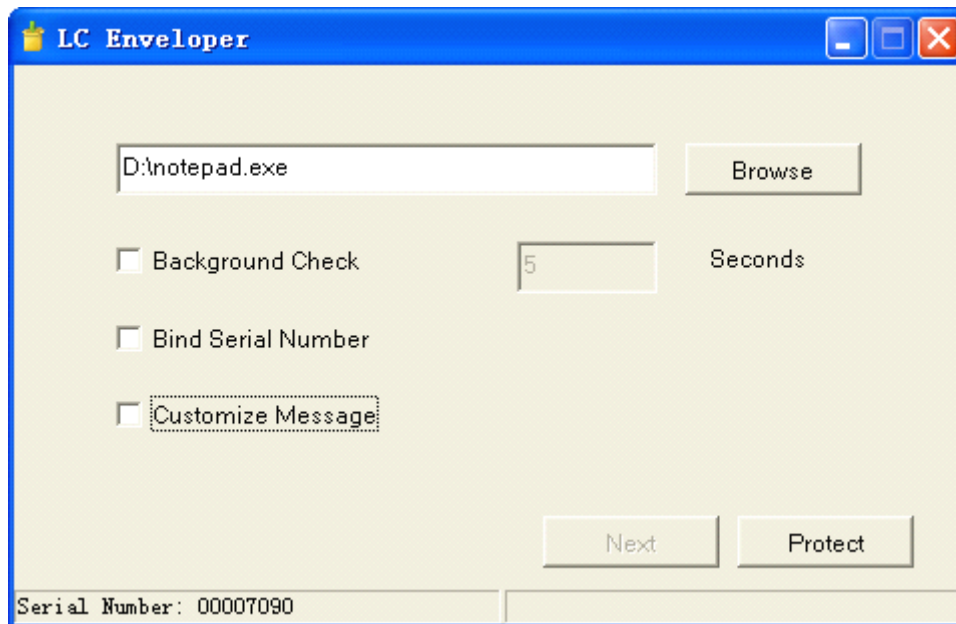


Figure 3-2

Parameters Setting

Background detection

This is an optional item. Tick square 2 to start Background detection.

It will activate square 6 which sets time interval with of dongle detection. Default figure is 5 seconds while integer 1~9999 can be typed in. This function prevents plugging out dongle when the software is running.

Bind serial number

This is an optional item. If you hope shelled software bind to specific device, which means shelled software only can be executed while the associated device is connected, you should tick Bind serial number in Figure 3-1.

[Example]

Software A/B/C are 3 copies of a software and they are connected with Key A/B/C. The Keys have a same Developer ID while their hardware serial numbers differ. The shelled software can only be executed normally with Key A on the condition that bind serial number is ticked when shelling exe file of Software A with Key A. If bind serial number is not ticked when shelling, the shelled software can be operated normally with all 3 Keys.

Customize Message

This is an optional item. Tick square 4 in Figure 3-1 to activate Next button showed in Figure 3-3. Reminding messages can be customized and saved that will show up when the software launches.

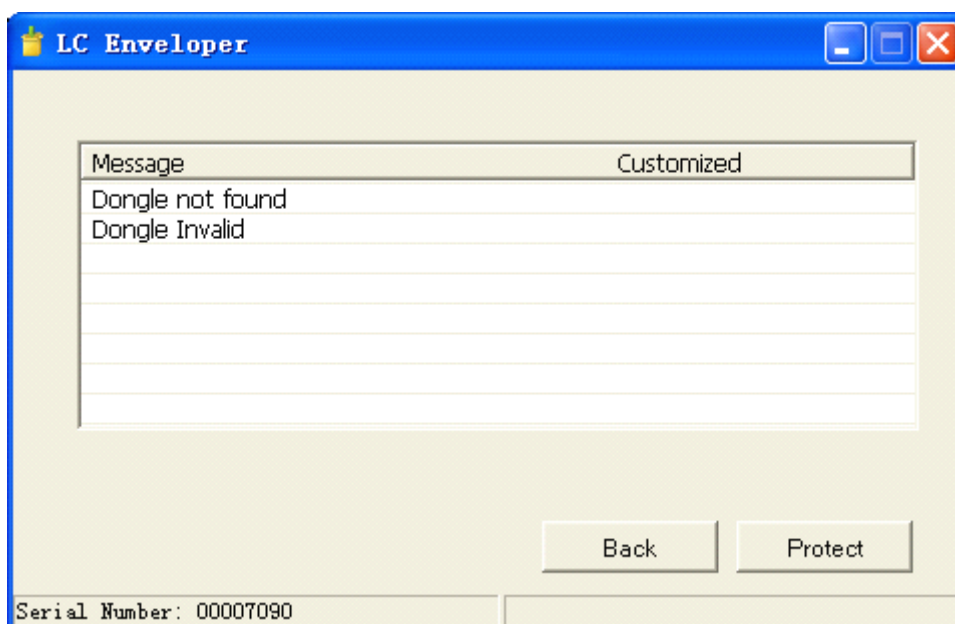


Figure 3-3 Customize Message

Shelling

Click Protect after all setting to see Figure 3-4. Input common User password and click OK to start shelling the software.

Figure 3-5 will pop out and executable file ***_shell.exe or ***_shell.dll will be produced under the original program path after shelling successfully. This is the shelled file.

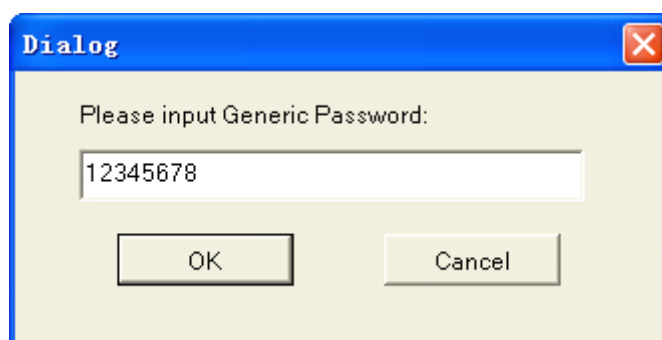


Figure 3-4 Input common User password

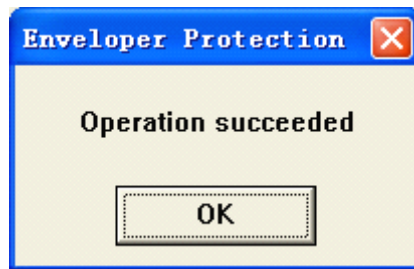


Figure 3-5 Shell successfully

Supplement

The following is to assist you under special circumstances:

1. Figure 4-1 will pop out when the correspondent device cannot be found. If you have set customized information, the information will be showed.



Figure 4-1 Error-Dongle not found

2. If you tick bind serial number when shelling, Figure 4-2 will arise when running software on the condition that you plug in an Clave 2 enveloper device with the same Developer ID but different serial number. If you have customized information, the information will be showed.

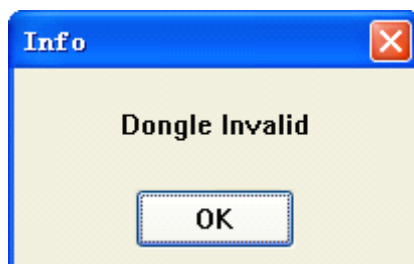


Figure 4-2 Error-Invalid dongle

3. If you tick Background detection, the shelled software will periodically detect the dongle. Figure 4-3 would arise if dongle cannot be detected. Click Cancel to exit software and click Retry to re-detect dongle.

When you tick Background detection as well as Bind serial number, if you plug in another device with the same Developer ID but different serial number, Figure 4-4 would arise after click Retry in Figure 4-3. If you have set customized texts, the defined text will be showed.



Figure 4-3 Error-Dongle not found

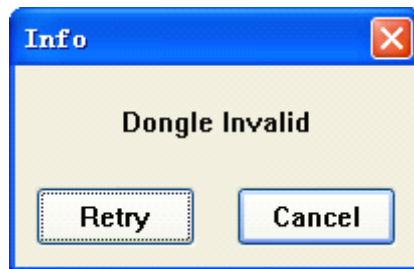


Figure 4-4 Error-Dongle invalid

Appendix

Developer Tool

Recently, shell encryption tool of Clave 2 Enveloper v1.0.4.0 only supports executable EXE files compiled by following versions of developer tool: BCB5, BCB6, BCB2006, BCB2009, BCB2010, Delphi5, Delphi6, Delphi7, Delphi2006, Delphi2007, Delphi2009, Delphi2010, VB6.0, VC6.0, VC2002, VC2003, VC2005, VC2008, VC2010, PB8, PB9, PB10, Author ware and VFP.

Supports executable DLL files compiled by following versions of developer tool: BCB5, BCB6, BCB2006, BCB2009, BCB2010, Delphi5, Delphi6, Delphi7, Delphi2006, Delphi2007, Delphi2009, Delphi2010, VC6.0, VC2002, VC2003, VC2005, VC2008 and VC2010.

Operating Systems

Windows 2000 Server, Windows 2000 Professional, Windows 2003 Server(32bit&64bit), Windows XP Professional(32bit&64bit), Windows Vista(32bit&64bit), Windows 2008(32bit&64bit) and Windows7(32bit&64bit).