

Elite EL

EL Drive v2.0.4.0

Release Notes

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Overview

Mode	Model	Version	Releasing Date
Elite EL	Drive	v2.0.4.0	May 2014

■ CONVENTIONS USED

The following conventions are used throughout this document:

<i>Italic</i>	File Names and Directory Names.
Bold	Keystrokes, Menu Items, and Window Names and Fields
Consolas	API parameter
Arial	API Macro, Error Code
CAP	API Struct
	Critical Information

■ DOCUMENT IMPROVEMENT

Document Writing Team dedicates to insure the accuracy and completeness of context. Your feedback will assist them to make continuous improvement on Elite EL document. Please do not hesitate to email us info@senselock.com.

About the Release Notes

This document is a supplementary to *Elite EL Drive v2.0.4.0 Developer Guide*. This release note covers the preliminary introductions, known issues and other information that is excluded from the *Elite EL Drive v2.0.4.0 Developer Guide*.

For detailed product information and instructions, please refer to *Elite EL Drive v2.0.4.0 Developer Guide*.

What's Updated in EL Drive v2.0.4.0

Added Content

- Added libraries for EL Drive v2.0.4.0.
- Added *UKGetLetters* interface to get drive letter.
- Added key parameter into *UKHiddenAreaRead* and *UKHiddenAreaWrite* to encrypt data while reading and writing.
- Added *UKControl* interface to send control code to device and execute the corresponding action.
- Added *UKSetDiskCurrentMode* interface to execute device partition.
- Added *UKGetDiskCurrentMode* interface to get device partition mode.
- Added *UKWriteCdrom* interface to update data stored in CD-ROM.
- Added *UKGetApiVersion* interface to get the version of API.
- Added *Mode-E CD-ROM Only* into the partition modes.
- Added *UKTool.exe* under *%SDK%Tools* for login or change password for Security Partition.
- Added *UpdateCdrom.exe* under *%SDK%Tools* to update data in CD-ROM Partition.
- Added *Returned Values* for error check convinces.

Deleted Content

- Deleted *UKGetRemovalLetter* and *UKGetCdromLetter* APIs.
- Deleted *UKSetTdesKey* API.

Changed Content

Amended Date	Mode	Description
2014-4-09	API	Drive letter error may occurs after set mode and write <i>.iso</i> file into device.
2014-4-22	API	The parameter to set Partition Mode of the The API <i>UKSetDiskCurrentMode</i> support using macro definition constant parameter. It also support using number from 0 to 5 to refer the partition modes.
2014-4-22	API	Added <i>Return Values</i> for error check convinces.
2014-4-09	UKDevTool.exe	<i>UKDevToo</i> can be sent to back of the current window for use convinces.
2014-4-09	UKDevTool.exe	Correct the problem that under mode without Security Partition, click Login will lead to password error report.
2014-4-09	UKDevTool.exe	Plugin EL Drive device and then remove, click <i>Login</i> to Security Partition, <i>Logout</i> from Security Partition, or Enter into the Public Partition, this application could be not responding.

Error Correction

Amended Date	Mode	Description
2014-4-09	API	Solve the problem that input an incorrect CD-ROM drive letter, <i>.iso</i> file could still be write into the CD-ROM Partition.
2014-4-22	API	Calling API <i>UKSetDiskCurrentMode</i> to format drive disk, a message to require to format disk might pups out after set partition mode.
2014-4-22	API	Solve the problem that when the parameter of <i>ReadPos</i> (Inputted initial offset) of API <i>UKHiddenAreaRead()</i> is set as '-1', computer may appears blue screen and reboot automatically.
2014-4-22	API	Solve the problem that login with password NULL, and then login with a correct password will lead to login failure.

Amended Date	Mode	Description
2014-4-22	API	Solve the problem of updated file is incomplete in CD-ROM Partition, the file is larger than CD-ROM Partition's volume, even though get the success returned value.
2013-4-27	UKDevTool.exe	Solve the problem of the content in CD-ROM will not update without re-plugin EL Drive device, after the CD-ROM Partition has been updated.
2013-4-27	UKTool.exe	Solve the problem of reporting password error when logout the tool.

Known Issues

1. It is required to restart system to read CD-ROM drive letter when partition drive disk with *Mode-E CD-ROM Only* in Win2000 operating system.
2. When EL Drive in HID mode, if the time for generating secret key is relative longer, it could return an error value. Restart system will solve this issue.
3. The flash disk part of EL Drive could be affected by *Baidu Assistant*, *DriveGenius*, or other software that constantly issue command of obtaining descriptions. It could lead to computer running slowly, tools identify EL devices slowly, and failed to partition with API.
4. On AMI Basic Input/ Output System, when other USB ports are took, and EL Drive is plugged into the first interface enumerated by host, system may get stuck in the BIOS startup screen.
5. It may returned error value when flash disk part and the HID EL dongle part are communicating at the same time. USB mode doesn't occurs the same issue.
6. After partitioning EL Drive, because the computer doesn't refresh new drive letters for the new partitions, sometime failed to get drive letter error may occurs, or it may get the drive letter before drive partitioning. For example, after re-partition drive into *Mode-E CD-ROM Only* but get the Public Partition before the re-partitioning. This issue will be solved by re-plugin EL Drive device.
7. The last 512 bytes in Security Partition cannot be used. The actual available volume is the setting volume minus 512 bytes. For example, you set the Security Partition as 1000 bytes, the actual available volume of the Security Partition is 488 bytes.
8. Without change the partition mode, data that already stored in the Hidden Partition or CD-ROM Partition will not be delete by re-partitioning. For example, you can reset the Hidden Partition from 100MB to 50MB without changing the data stored in the Hidden Partition.

Notice

When remove EL Drive from computer, please pay attention to **Safely Remove** the hardware from system, to avoid damaging the system file in EL Drive device and cause device malfunction.

File List

File Path	File Name	MD5 Value	Version	File Size (byte)	Last Modified Time
Elite EL Drive v2.0.4.0 \API		fe85084aae5d758dd7			
	SenseUK.dll	8f67cd0dfef5a2	2.0.4.0	409600	2014-7-1 16:50
		b1b10d35cc9ae43ac2b			
	SenseUK.h	25475ad14c4a0		10881	2013-5-7 16:32
Elite EL Drive v2.0.4.0 \Docs		9070f766ce5059b03af			
	SenseUK.lib	66e80db623789	2.0.4.0	44574	2014-7-1 16:50
	Elite EL v2.0.4.0 Developer Guide.pdf	942c5c6d739eba08d3	2.0.4.0	818760	2014-6-6 15:31
		a4537cd309cf5d			
Elite EL Drive v2.0.4.0 \Tools		7784bf5972bda9cbfc6			
	UKDevTool.exe	85381e71500b9	2.0.4.0	663552	2014-7-2 13:18
		032ccdce1a8214ccf01			
	UKDevTool_Language.dll	9c6f9735640b2	2.0.4.0	53248	2014-7-2 11:49
		75484cf6a3e362f7037			
	UKTool.exe	c20af871afbbf	2.0.4.0	659456	2014-7-2 13:21
		ff5065729048fe523a1f			
	UKTool_Language.dll	a8e41ccbf104	2.0.4.0	102400	2014-7-2 11:56
		b86feb6cc8ed8760787			
Elite EL Drive v2.0.4.0 \Update	UpdateCdrom.exe	3dbd50ebe284f	2.0.4.0	638976	2014-7-2 13:23
		674bf931eb7659b87a			
	UpdateCdrom_Language.dll	b2ced1d3c726f8	2.0.4.0	192512	2014-7-2 11:57

Specifications

Item	Value	Note
CPU	16-bit, 16MHz	Smart Card
RAM(bytes)	VM Mode	254+2047
Memory(bytes)	8K/32K/64K	
IO Buffer(bytes)	250	
Working Voltage	DC 5V +/- 5%	
Max Consumption	1000mW	
Working Temperature	0°C~70°C	
Data Retention	10 Years	Typical
Rewritable	100,000 times	Lowest
Connection Type	USB 1.0, USB 2.0	
Encryption Algorithm	RSA, DES, TDES, SHA1	
Connection	Driver or HID	

Operating System Supported:

Windows 2000, Windows XP, Windows Vista, Windows 7, Windows Server 2003, Windows Server 2008, Mac OS, Linux

Programming Language Supported:

VC++, C#, Java, Delphi, VB, AutoCAD