Evaluation Process

To Moway 1

Version 1.06





Table of Contents

1.	Moway1	2
	Product Overview	2
2.	Tool chains and API provided	2
	Tool chains	2
	Advanced comprehensive solution to get higher software security with Moway1	3
	API and Sample	3
3.	Evaluate process	4
	Preparation	4
	Moway 1 initialization by DevTestTool.exe	5
	Setting the PID of the dongle by use of DevTestTool.exe,	6
	Software protection	9
	Verify the protection	13
4.	Other Functionality	14
	Volume Setting Tool (by use of BatchTool.exe)	14
	Remote Update	17
	Create a "License update package" by use of MakePackageTool.exe	17
	Update the update package file into dongle by use of UpdateTool.exe	19



This document is designed to help the software developer to complete software protection testing and evaluation process by using Moway 1 hardware and related tools quickly. If software developer want to design and customize their dedicate protection scheme for their software product by call API or increase protection security level, you can refer the Moway 1 User Manual to get more detailed information for how to use and call API and also take a reference from *API sample/demo* and *mowaydoc.chm documentation* from the relevant SDK sub directory.

1. Moway1

Product Overview

Moway 1 is the latest hardware lock (Dongle) for software protection with easy to use, cost effective functions to software developer. Equipped with 32-bit smart card inside and the security level up to CC EAL4+, Moway 1 supports multi advanced encryption algorithm to protect software and also provides large data storage capacity (varies from 8Kb/32Kb) to store and protect the license and critical data; Moway 1 supports HMAC identity authentication, Remote update, Driverless mode and can be flexibly used in different scenario. In cooperate with Moway 1 Virbox Protector and other toolkits, Software developer will be easily and quickly to complete the highly secured software protection scheme to safeguard their software program far away from piracy.

2. Tool chains and API provided

Tool chains

Virbox Moway 1 provides following tool chains for software developer to complete whole protection process for: Device Initialization and Setting, Software Protection, Algorithm Test, Volume Setting and Remote update, you can find the description to each tool in the table attached blow:



Tool Chain	Purpose	Functionality & Description	Operate by
DevTestTool.exe	Development and Testing Tool for Moway 1	Initialize the Moway 1 device, such as generate or modify the PID; File Operation to Moway device, such as create new file, import, delete and edit file in the Moway device, etc.	Developer
CryptoTool.exe	Cryptographic Algorithm Tool	Test the different kind of Cryptographic algorithm which use in Moway 1 device, or create the key file to Moway 1.	Developer
BatchTool.exe	Batch setting Tool for Moway 1 Lock setting	Volume production (setting) of the Moway 1 device with the same PID by using the created template.	Developer
MakePackageTool.exe	Create License update package to Moway 1 device	Developer to create License update file package in developer premise, and distribute this update file (package) to user.	Developer with Master lock
UpdateTool.exe	Update Tool used to import the user update package into the Moway 1	When developer issue license update package to software user, then software user will use this tool in user premise to import this update package into the Moway 1 dongle.	Software User
virboxprotector.exe	Professional Protection tool to protect/encrypt your software.	As a Fast, easy to use and Secured protection tool, Developer may use Virbox Protector to protect software quickly with codeless effort.	Developer

Table 1

Advanced comprehensive solution to get higher software security with Moway1

API and Sample

Virbox provides a series API and the Samples for software developer to take a reference includes Moway 1 dongle setting (initialization), Basic operation, File Operation, Cryptographic Algorithm and Remote upgrade by use of

Copyright © 2019, Virbox, All Right Reserved.



API calling, for more details you can refer the chapter 3.6 and Chapter 4 in *User Manual_Moway 1.pdf* and also you can contact us.

Note: Moway1 support the software developer to Store the key file, data file or license file into Moway1. Which can be used to complete a comprehensive solution for the software protection.

If you want to design customized & higher security of the software protected by calling API, you can contact us for the detail operation or refer relevant documentation.

Email address: support@senselock.com.

3. Evaluate process

Preparation

 Download (You can also contact Virbox team to get the SDK) and install the Moway 1 SDK on your computer (Windows), the installation path is like the following picture showing:

This PC	> Local Disk (C:) > Program Files (x86) > senseshield > Moway			~
^	Name	Date modified	Туре	Size	
*	арі	9/23/2019 11:40 AM	File folder		
*	📙 cryptoapi	9/23/2019 11:40 AM	File folder		
	docs	9/23/2019 11:40 AM	File folder		
	samples	9/23/2019 11:40 AM	File folder		
*	shell	9/23/2019 11:40 AM	File folder		
	tools	9/23/2019 11:40 AM	File folder		
	🔟 license.rtf	9/20/2019 10:13 AM	RTF 格式	110 KB	
	🙀 msiexec.exe	9/20/2019 10:13 AM	Application	57 KB	
	🛃 Uninstall.exe	9/23/2019 11:40 AM	Shortcut	3 KB	

Figure 3-1

- A Windows application sample to be protected and tested
- A Moway 1 User dongle in hand (If you want to test the remote update function of Moway1 you need to have a Moway 1 Master dongle in hand which need to be ordered separately)

With the following 4 steps we can complete a basic evaluation process:

Evaluation Step:

- Moway 1 initialization with DevTestTool.exe;
- PID setting by use of DevTestTool.exe;



- Software protection (Protect and bind the software and dongle with same PID) by use of Virbox Protector(Moway 1 version);
- Verify the protection.

Moway 1 initialization by DevTestTool.exe

File Tools Language File Tools Language File Tools Language File Tools Language Basic Info File Management PIN Setting Basic Info File Management PIN Setting Master PIN Old PIN: New PIN: Confirm PIN: The maximum of error enter: I0	X
Y PID: 0 Basic Info File Management PIN Setting The initialized PIN is not modified, please go to 'PIN Setting' Master PIN Old PIN: Old PIN: ••••••••••••••••••••••••••••••••••••	
Old PIN: ••••••••••••••••••••••••••••••••••••	
Confirm PIN: The maximum of error enter: 10	
The maximum of error enter: 10	
Modify	
User PIN	
Old PIN: ••••••• New PIN: •••••••	
Confirm PIN:	
The maximum of error enter: 10	
Modify	
Refresh	

Figure 3-2

After you modified the PIN code successfully, it will show "Modify successfully!"



DevTestTool_1.0.0.42968		- 🗆 ×
DevTestTool_1.0.0.42968 Tools Language PID: 0 0B0101040340DA8407161700140007E1 The Master PIN is already verified!	Basic Info File Management PIN Setting Master PIN Old PIN: New PIN: Confirm PIN: The maximum of accountar: 10 The maximum of account	
	Use PIN Old PIN: Ok •	Modify
	Confirm PIN: ••••••• The maximum of error enter: 10	Modify
Refresh		

Figure 3-3

Then we need to set the PID in the next step.

Setting the PID of the dongle by use of DevTestTool.exe,

Seed Code

Seed code used for setting PID, Seeds code is critical data to generate the product PID, please keep the seeds code in security and safety, the same PID may only be generated and available by use of the same seeds code.

PID

Product Identification ID, and generated by use of Seeds Code, developer use the PID to identify each of product, or each of sub developer, PID is the key identification and differentiated from the other software product which also used Moway 1 protected. So please set your dedicate PID for your product before using Moway 1.

PID is useful to those developer who didn't establish license system; With PID, developer has capable to use PID to manage and sell software to users;

Note:

- 1. All the PIDs of Moway 1 in factory setting are same, on default is "0", please make sure to modify the PID before use, otherwise you can't use any functions except of dongle initialization.
- 2. Developer Authorization (Access Right) is required to set the PID, you can re set the PID when obtain the developer authorization;



3. The PID is unique ID generated by one seeds code, and The PID generated by different Seed code is different, So, when setting a certain type of product, be sure to use the same seed code for PID setting. Otherwise, different PIDs will be generated in dongle for same product.

Only the same seed code can generate the same PID. The way to distinguish the dongle from different customer or different software product is by the user PIN code and PID. Two different dongle that have the same user PIN code and PID can open the same software. Therefore please keep the seed code properly to avoid leaking or lost it. In this way to protect the software from being used illegally.

DevTestTool_1.0.0.42968				_	×
File Tools Language					
PID: 234144666 041E01040240CE0P07175200200007E1	Basic Info File Man	agement PIN Setting			
The Master PIN is already verified!	Seed Code:	12345678	Import	Set PID	
	PID:	234144666	Сору		
	Type:	Master Lock			
	Chip S/N:	0A1F01040340CE9B07175200300007E1			
	Case S/N:	0000000			
	Firmware Verison:	0.1.1.1			
	Total Capacity:	32.0 KB			
	Free Capacity:	29.5 KB			
	Manufacture Date:	2019/03/28 16:41:00			
	User PIN(Not Verify)	Master PIN(Verified)			
Refresh	Restore Factory Settin	igs			

Figure 3-4

After the initialization of the new Moway USB dongle, you need to set the PID for the dongle, which will be used to create a bind relationship between the Moway USB dongle and the software protected.

The detail steps:

- 1. Plug in the Moway 1 dongle on your computer
- 2. Verify the PIN code



DevTestTool_1.0.0.42968				-	×
File Tools Language					
File Tools Language V PID: 234144666 OA1F01040340CE9807175200300007E1 Need to verify the Master PIN! Verify	Basic Info File Man Seed Code: PID: Type: Chip S/N: Case S/N: Firmware Verison: Total Capacity: Free Capacity: Manufacture Date: User PIN(Not Verify)	agement PIN Setting 4~32 characters 234144666 Master Lock 0A 1F0 1040340CE9807175200300007E1 00000000 0.1.1.1 32.0 KB 29.5 KB 2019/03/28 16:41:00 Master PIN(Not Verify)	Import Copy	Set PID	
Refresh	Restore Factory Settin	gs			

Figure 3-5

3. Input the seed code

Note: You can generate a relatively complex seeds code with a random number generation tool, or use the random number generate function in the **CryptoTool.exe** provided in the SDK, you can refer the *User Manual_Moway 1.pdf* for how to generate random number in detail.

You can directly input the seeds code or by import the seed code file with the import function in DevTestTool.exe (Here we take the seed code "12345678" as an example).

Basic Info File Ma	anagement PIN Setting		
Seed Code:	125	Import	Set PID
PID:	234144666	Сору	
Туре:	User Lock		
Chip S/N:	0B0101040340DA8407161700140007E1		
Case S/N:	0000000		
Firmware Verison:	0.1.1.1		
Total Capacity:	32.0 KB		
Free Capacity:	32.0 KB		
Manufacture Date:	2019/03/29 11:15:45		
User PIN(Not Verify)	Master PIN(Verified)		

Figure 3-6

4. Set PID

After you input the seed code, you can click "**Set PID**" button to set the PID for the Moway 1 device:



Basic Info File Man	agement PIN Setting				
Seed Code:	4~32 characters	Import	Set PID		
PID:	234	Сору			
Туре:	Master Lock				
Chip S/N:	0A1F01040340CE9B07175200300007E1				
Case S/N:	0000000				
Firmware Verison:	0.1.1.1				
Total Capacity:	32.0 KB				
Free Capacity:	29.5 KB				
Manufacture Date:	2019/03/28 16:41:00				
User PIN(Not Verify)	Master PIN(Verified)				
Restore Factory Settin	ngs				
	Basic Info File Man Seed Code: PID: Type: Chip S/N: Case S/N: Firmware Verison: Total Capacity: Free Capacity: Manufacture Date: User PIN(Not Verify)	Basic Info File Management PIN Setting Seed Code: 432 characters PID: 234 Type: Master Lock Chip S/N: 0A 1F01040340CE9607175200300007E1 Case S/N: 0000000 Firmware Verison: 0.1.1.1 Total Capacity: 32.0 KB Free Capacity: 29.5 KB Manufacture Date: 2019/03/28 16:41:00 User PIN(Not Verify) Master PIN(Verified)	Basic Info File Management PIN Setting Seed Code: 4~32 characters Import PID: 234 Copy Type: Master Lock Copy Chip S/N: 0A 1F0 1040340CE9807175200300007E1 Case S/N: Case S/N: 0000000 Firmware Verison: 0.1.1.1 Total Capacity: 32.0 KB Free Capacity: 29.5 KB Manufacture Date: 2019/03/28 16:41:00 User PIN(Not Verify) Master PIN(Verified)	Basic Info File Management PIN Setting Seed Code: 4~32 characters Import Set PID PID: 234 Copy Type: Master Lock Copy Chip S/N: 0A 1F01040340CE9807175200300007E1 Case S/N: Case S/N: 0000000 Firmware Verison: 0.1.1.1 Total Capacity: 32.0 KB Free Capacity: 29.5 KB Manufacture Date: 2019/03/28 16:41:00 User PIN(Not Venfy) Master PIN(Venfied)	Basic Info File Management PIN Setting Seed Code: 4~32 characters Import PID: 234 Copy Type: Master Lock Chip S/N: 0A 1F01040340CE9807175200300007E1 Case S/N: 0000000 Firmware Verison: 0.1.1.1 Total Capadity: 32.0 KB Free Capadity: 29.5 KB Manufacture Date: 2019/03/28 16:41:00 User PIN(Not Verify) Master PIN(Verified)

Figure 3-7

After the PID setting, a unique PID will be set to this dongle, we can use this dongle to verify your protected software later, next you will need to input the PID generated by **DevTestTool.exe** to protect your software by use of Virbox Protector.

Other function in DevTestTool.exe tool:

For more information about how to use those tool chains, you can refer the document: *User Manual_Moway* **1.**pdf.

Software protection

Note:

Virbox Moway SDK provides software protection tools: Virbox Protector basic edition to software developer;

Virbox Protector basic edition support developer to protect application to prevent cracker from decompiling, de-assembling, tampering application with basic protection options;

For developer require to have most secure protection option to protect application to against static attack and dynamic analysis, injection, memory dump. You can select to use Virbox Protector Pro edition for Moway;

Double click the "**Virbox Portector.exe**" which located in the "bin" folder of "shell" sub-directory of SDK directory to start Virbox Protector in the SDK installation path (The default path is *C:\Program Files (x86)\senseshield\Moway\shell\windows_x64\bin*), then GUI shown as in Figure 3-8. Virbox Protector basic



edition supports to protect PE, .Net format and Unity3D program currently.



Figure 3-8

Select the file/program you want to protect, and open this program, shown as below figure 3-9

Virbox Protector (Moway) Standard x64 (1.4.0.90	69)				-		×
File Protect Plug-in Log Setting Help							
		$\overline{\Diamond}$					
Open File Save Selected Configuration Save All Cor	nfiguration Protect Selected Proj	ects Protect All Project					
File/Directory	😨 Base Info 🛛 Vicense	Ontions Euroction Ontions	Protection Options	Message Options			
EP0000551939.exe				 Headge options 			
Parse successfully!							
	File/Directory Path:	C:/Users/luyongqiang/Desktop/t	EP0000551939.exe				
	Created Time:	2019/07/12 19:18:24					
	Last Modified Time:	2019/07/12 18:52:19					
	Last Assessed Trace	2010/07/12 10:10:24					
	Last Accessed Time:	2019/07/12 19:18:24					
	Type:	PE 32-bit i386					
C:/Users/luyonggiang/Desktop/EP0000551939.exe					PE	32-bit i38	36

Figure 3-9

Select the "License Option" tab, input the **PID** of the device, and the **User PIN** code. If you want to bind the software with specific dongle, you need to fill in the **Chipset S/N** number of chipset of dongle.



[
Virbox Protector (Moway) Professional x64 (1.4.2.9	9340)				-	\times
File Protect Plug-in Log Setting Help						
	\square	\bigcirc				
Open File Save Selected Configuration Save All Conf	iguration Protect Selected Proje	cts Protect All Project				
File/Directory	🕞 Base Info 🛛 👽 License (Options Grant Function Options	Protection Options	Message Options		
.Net_RetroSnaker.exe						
Parse successfully!						
				7		
	PID:	2 566				
	User PIN:	•••••				
	Chipset S/N:	Optional. 32 characters		7		

Figure 3-10

In this step developer also set to bind with specific dongle with the application as well as with PID. You can open the protected software only when the specific dongle plugged on your computer.

In the Protection Options tab you can use the **compression**, **import table protection (for PE program)** and **name obfuscation protection (for .Net program)** to protect the application in general, as the screenshot showing blow:

Virbox Protector (Moway) Standard v64 (1.4.0.909	37)				_		X
File Protect Plug-in Log Setting Help						_	
	r ~	~					
	Service Directory Directory Directory Directory	tact All Draiget					
opennie Save Selecteu Comiguration Save Air Con	ingulation Protect selected Projects Pro	LECT AILPTOJECT					
File/Directory	Base Info	Euroction Options	Protection Options	Message Options			
.Net_RetroSnaker.exe	Ucerse options	T unction options		 Hessage options 			•
Protect successfully!	✓ File						<u> </u>
	Output File/Directory	E:\Test-Prog	am\.Net_RetroSnaker.ssp.e	exe		•••	
	 Protection Options 						
	Compression						
	Name obfuscation						
	Check-interval	60					
	Y Plug-In						
	Y Anti	0					
	Anti hardware breakpoint						
	Anti memory breakpoint						
	Enable memory Check						
	∽ ds	\overline{O}			Open DS	Protector	
	Password						~
	, approl d						_
E:/Test-Program/.Net_RetroSnaker.exe					.NET	AnyCPU i3	86

Figure 3-11

In the Function Options, you can select the functions by click "Add Function" and select "obfuscation", "Virtualization" or "Encryption" to protect the specific or critical functions to prevent those functions from reverese engineering by powerful decompiler or de-assembler (static analysis)

Then click "Protect Selected Project" button to complete the software protection.

After Protection, 2 more files will be generated in output folder:

Copyright © 2019, Virbox, All Right Reserved.



.Net.exe.ssp and .Net.ssp.exe

.Net.exe.ssp is the configuration file that can be used to protect the data resources. If you do not need to protect the data resources, you can delete this configuration file. This file will also save your software protection configuration, for detail step of data resources protection please refer the related document or contact us.

.Net.ssp.exe is the protected application, please noted that the name of this file is different from the original file. You need to modify it to be the original name then distribute this file to software user. To avoid error caused by incorrect file name.

.Net.exe is the original file. Pls keep it in safe and do NOT distribute this file to your user.

Share	Share View							
55	Name	^	Date modified	Туре	Size			
*	.Net.exe		11/12/2018 2:13 PM	Application	183 KB			
ls 💉	.Net.exe.ssp		10/23/2019 11:10	SSP File	2 KB			
ts x	.Net.ssp.exe		10/23/2019 11:10	Application	8,902 KB			
~								



Note: Virbox Protector provides basic protection function to software developer, if you want to use advanced protection option of Virbox Protector, you need to purchase Virbox Protection (Pro), please contact us for details protect function available for Virbox Protector (Pro). Virbox Protection (Pro) support to following protection options: Obfuscation, Virtualization Protection and Code Encryption to the software.



A 151 A 1 A A A A A A A A A A	0.00		_	
Virbox Protector (Moway) Standard x64 (1.4.0.9	993)	_		~
File Protect Plug-in Log Setting Help				
Open File Save Selected Configuration Save All C	onfiguration Protect Selected Projects Protect All Project			
Ele/Directory				
,	🕞 Base Info 🛛 License Options 🕼 Function Options 💿 Protection Options 🕞 Message Options			
EP0000551939.exe				
Protect successfully!				
	DTD: 224144666			
	234144666			
	User PIN: Virbox Protector			
	Chipset S/N: Protect successfully!			
	Open Build Directory Run Amilication Ok			
		Activate V	Vindo	ows
1/1,Completed				Xa

Figure 3-13

The above is the basic function of the Virbox Protector. Virbox Protector also supports more advanced protection functions. If you want to use these advanced functions or want to know what kind of protection you can use, please contact us (support@senselock.com) to get quick feedback consultation and get the related Virbox Protector installation package and related document for Moway1.

Verify the protection.

You can run the protected software when the dongle is plugged on the computer.

In this evaluation process, when we run the program with the Moway 1 dongle plugged in, the software can start up correctly:





When you run the program without the dongle plugged in, it will show:

Virbox Protector		×
[0x00000004] No device or no specific device on the pc		
	 取消	



In the evaluation process above, we use the same PID which generated by DevTestTool to set up the link between the protected software with Moway1 dongle to complete a simple protection process by Virbox Protector. If developer want enhance the security to protect the software, Moway1 also support developer to select the key/data generated by different encryption algorithm (by use the CryptoTool), the key or data can be store inside of dongle with following way to verify the protected software: signature/verify signature, encryption/decryption, and HMAC challenge/response. And also, developer may refer a series API sample in the SDK to flexible design your dedicate protection scheme to protect your software.

4. Other Functionality

Volume Setting Tool (by use of BatchTool.exe)

The Volume Setting Tool help the developer to setup the completed protection/encryption scheme into the



Moway 1 dongle in volume for mass production of dongle. When you complete your protection/encryption scheme in this Volume Setting Tool, you can use this protection scheme and setting in one Moway 1 dongle or setting to multiple dongles at same time. Developer also can save your protection/encryption scheme in the tool as a template for Volume setting in next times. Developer may import the template which has been saved before use, click the "Start Batch" Button in the bottom, and it is not necessary to redesign your encryption scheme again in the tool.

Double click the "**BatchTool.exe**" which located in the Tool directory to start the Volume Setting Tool, The GUI is shown in the figure 4-6, The left panel list all the dongle device hosted by local computer, the dongle device with red colors indicates that volume setting is not performed yet. To design and complete a new encryption/protection scheme, developer need to verify the seed code first, which means, developer may either input the seed code or import the seed code file externally. Then click the "**Generate PID Test**" button to verify if the PID generated by the seed code is the product type for Volume Setting the Dongle for mass production. When PID verified, you may input the old and new PIN Code in the PIN code setting box, and also set the maximum error PIN code input times limitation. If you do not want to set the limitation, you can leave the box with empty. The encryption scheme file is set in the file setting tab, and the data file and the key file can be imported externally. The data file needs to be set with associated access right according to your encryption scheme, when data file is set. You will complete the encryption scheme, and then click "**Start Batch**" button in the bottom. The mass production can be started. When the production is completed, the red mark of the device in the left device panel turns green, the mass production is successful, and the production count is updated.

There are two buttons to manage the template on the right top of tool: "Import Template File" and "Save as Template File", you may save current protection/encryption scheme as a template file or import a template from external and start Volume setting dongle for mass production quickly.

Attn: To Verify the seed code, the host Computer needs at least one device (Moway 1 Dongle) existed, used to verify the generate PID; For normal Moway 1, the factory default PIN setting is 24 "0", so, for old PIN input, please use 24 "0" to input. If it is volume setting in second time, the old PIN code needs to input the current developer PIN code of the device;

The following figure will show you the setting and achieve a successfully batch setting for Moway1 device.



Batchildol_10.0.40505					- 0
Language					
Lock List:	Set DID			Import Template File	Save as Template
× 0A1F01040340CE9B07175200300007E1	Seed Code: 32 characters PID:				Import Generate PID Te
	Master PIN Setting		User PIN Setting		
	Old PIN: New PIN:	Default initialized PIN 24 characters	New PIN:	8 characters	
	Confirm PIN: The maximum of error enter:	24 characters 15	The maximum of error enter:	8 characters	
	File Setting				
					Add Binary F
Refresh					Delete File
Total Locks: Export					
-	Log				
Total success:					Export
Total failed:				∧ c	tivata Wind

Figure 4-1

BatchTool_1.0.0.42968					- 0	×
Language						
Lock List: V PID: 234 V 0B01010403- 00140007E1 V 0A1F01040. 0300007E1	Seed Code: 12: PID: 234144666			Import Template File	Save as Tem Impor Generate PI	plate File t ID Test
	Master PIN Setting		User PIN Setting			
	Old PIN:	•••••				
	New PIN:	••••••	New PIN:	•••••		
	Confirm PIN:	••••••	Confirm PIN:	•••••		
	The maximum of error enter:	15	The maximum of error enter:	15		
Refresh	File Setting				Add Bina	ary File
Total Locks: 2					Add Ke	y File
Total success: 2	Log 2019/10/21 11:23:16,Restor 2019/10/21 11:23:16.The ne	e factory status successfully w Master PIN and the maximum enter number	of PIN are set successfully		↑ Exp	ort
Total failed:	2019/10/21 11:23:16,The ne 2019/10/21 11:23:16,Verify 2019/10/21 11:23:16,Set PI	w User PIN and the maximum enter number of Master PIN successfully D successfully	PIN are set successfully		~	
U		Star	t Batch			

Figure 4-2



Remote Update

Create a "License update package" by use of MakePackageTool.exe

Developer sometimes need to prepare a license update package to software user when the files in dongle need to be updated, Moway 1 provides 2 license update tool to software developer. Which can be used to update the files in the dongle remotely:

MakePackageTool.exe will be used by developer to create a remote update package in Developer premise. Please note, to create a remote update package, developer need to use Moway 1 Master Lock together with this MakePackageTool.exe.

UpdateTool.exe will be used by software user to import the update package into the Moway 1 user dongle in User premise.

Developer Premise:

Double click the "**MakePackageTool.exe**" which located in the "tool" sub directory to start this license update package tool. The Tool GUI shown as in Figure 4-1.

The "Lock" tab shows the list of Master Lock hosted by local computer, select the master lock for which the PID update package need to be created, and input the Master PIN code. If the update package is made to specific user lock, then you need to click the "**Set Lock S/N**" check box and input the S/N of the dongle.

The three function buttons ("Add Binary File", "Add Key File", "Delete File") on the right side can edit the files in the device that need to be updated. After completing the settings, click "**Start Make**" Button on the bottom of panel, select the directory to save the update package, and complete to make the update package like the figure showing blow.

Notes: To Make the Update Package the software developer need to use the master lock, the normal user lock doesn't has access right to issue the license update package to other user lock. The master lock need to be initialized before issue the license update package then the master lock may issue license update package to the user lock which has same PID type with the master lock.



II MakeUp	datePackageTool_1.0.0.40305	_	□ ×		
Language					
Lock:	SN:0A1F01040340CE9B07175200300007E1 (PID:234144666)	•	Refresh		
Lock PID:	234144666				
Master PIN:					
Locn S/N:	32 characters		Set Lock S/N		
Package Fil	e Path	Privilege	Add Binary File Add Key File Delete File		
	Start Make				

Figure 4-3

Select the files to be updated:

💵 MakeUp	MakeUpdatePackageTool_1.0.0.42968 —					
Language						
Lock:	SN:0A1F01040340CE9	J07E1 (PID:234144666)	Refr	esh		
Lock PID:	234					
Master PIN:	•••••					
Locn S/N:	32 characters		Set L	ock S/N		
Package F	ile Path	Privilege	Add Bin	ary File		
C:/Users/I	uyongqiang/Desktop/demo1.bin	Read-only Read-write	Add Ke	ey File		
			Delet	e File		
	Start Make					

Figure 4-4

Save the update package:







Note: The software user need to use this update package to update the files into the user dongle.

Update the update package file into dongle by use of UpdateTool.exe

Software User Premise:

The software user need to double click the "**UpdateTool.exe**" which located in the "tools" sub directory of SDK to start this Update tool, the GUI interface show as below: Figure 4-4. In practical case, Developer need to deliver this UpdateTool.exe with update package to user when update required.

Select the lock (Moway 1 Dongle device) need to be updated from the "Lock" field, input User PIN code into the "**User PIN" tab**, select the Update package, then click the "**Update**" button to complete update process.



Update Tool		- ×
Lock:	0A1F01040340CE9B07175200300007E1(PID: 234144666)	Refresh
User PIN:	****	
Package Path:		
		Update



If the update package is imported successfully it will show "Update successfully".

Update Tool			- ×
Lock:	0A1F01040340CE9B07175200300007E1(PID: 234144666)	~	Refresh
User PIN:	*****		
Package Path:	C:\Users\luyongqiang\Desktop\upgrade		
Update success	fully!		
			Update



So till now with the above operation to the tools you can complete the dongle initialization, PID setting, program protection (bind the dongle with the software), license verification, and update of the files in the user dongle remotely.

Any question, you can contact us: support@senselock.com.