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SOR

SOYAL OPEN SYSTEM RULES (SOR) is the SOYAL MIFARE APPLICATION DIRECTORY (MAD)based developed the mechanism have multi-purpose include management access system, add value etc. SOR is advanced edition MIFARE, SOR streamlining MAD and get essential part of to help customers effectively understand the MIFARE features and benefits. MIFAREKEY and SOR TOOLS two software can help customers more efficiently study and application MIFARE the function and develop more advanced applications.

Advantages of SOR

1. The three different administrative privileges permission cards (SIM Card, UIM Card and CIM Card) can to management password and power failure AR-737 will release all information can avoid human error caused by the damage.





2. The cards built-in agent code issuance though SOR Programmer. The next level also able to control their own customers, max to 6-layer managing structures. **3**. Mifare Factory chip is not continuous number set by SOR, dealers can specify card number, user-friendly card management.

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User ID assignable



4. You can set up Validity in Mifare card by SOR.



5. One card issuance by SOR programmer, it could be passed in other branch you specified.



6. Write the instruction to controller in Mifare card, the instruction will be set up in machine ,you don't need set up on the machine anymore.



7. SOR allows users to make electronic commerce transactions quickly and securely. SOR currently has stored value (AR-737P) and debit (SOR MIFARE) function.

SOR Application

- Value-Added Control. SOR can edit the card site code, card code, validity, rights and other functions to increase the attendance management flexibility.
- Membership-Based Approach to Management. Using SOR features: editing validity, rights or global access control through membership way manage user. For example: the community fitness facilities can set the households in permissions and statistics frequency of use to enhance community management effectiveness.
- Vending Machine and Fixed Amount of Consumption System. Using SOR fixed amount charged function to set up and management vending machines and improve the quality of life
- Hotel and Ssuites of Management Systems. Using SOR will each room the needs of is set to the card, the only
 present SOR card to the Door Lock (AR-323D) to complete needs of different settings.

SOR Restrictions

Using the SOR the controller can not be read MIFARE card can only be read consistent SOR set of cards. The card that use SOR can not be MIFARE controller read. MIFARE controller only the recognize on the MIFARE card original chip code. RFID industry Each developed by MIFARE application is not interoperable.

AR-737P and MIFARE Key

AR-737P has a temporary memory function, power failure release all information, high level of secrecy and high security. AR-737P mainly for the production rights card, the card format and card issuers SOR has MIFAREKEY and SOR TOOLS two software. MIFAREKEY is the first to be developed software can help software engineers quickly develop applications, introduction MIFAREKEY is this chapter focus.

SOR Access Controller

Card Configuration Steps

- A. Setting 9 permissions cards (SIM Card *3, UIM Card *3, CIM Card *3)
- B. Enable SOR controller and SOR Programmer
- C. Format MIFARE IC S50
- D. Editing formatted card
- E. Editing instruction card
- F. Setting Distribution Layer's Controller and Permissions card





High Security KeyA/B Matching Mechanism

A.Setting 9 Permissions Cards

Using permissions cards to save password (Key A/ Key B) and to set the permissions to strengthen the password the confidentiality. Permissions card is a very important, please keep these cards in a safe place.

Authorization Media SIM / CIM / UIM



SIM (Red) System Initiate Media:

SIM keeps the keys of each licensed distributor or his application. SIM card can format card, edit card, edit programmer and also able to control next level customers. Each AR-737P has thress SIM cards, please keep these cards in a safe place.



CIM (Blue) Card Initiate Media:

Only CIM can create new media for each application. CIM card main function is format the card and edit the card. Each AR-737P has thress CIM cards, Charge card (CIM Card) and charge controller card (UIM Card) different can be achieved decentralized management of purposes.



UIM (Green) Unit Initiate Media:

Only UIM can launch new reader unit for each application. UIM card main function is format the controller and edit the controller. Each AR-737P has thress UIM cards, Charge card (CIM Card) and charge controller card (UIM Card) different can be achieved decentralized management of purposes.

KeyA KeyB:

Key A / Key B is two 12 16 Hex value and Config Trailer composed.

- Key A=12 16 Hex value, 0-9 and A-F
- Key B=12 16 Hex value, 0-9 and A-F
- There ard two kind Config Trailer: A: Decrement, A:Increment (Default) and A: Decrement, B: Increment. A: Decrement, A:Increment (Default): Read and write data before must be checked SOR card and the SOR controller the key A.

A: Decrement, B: Increment: Read data before must be checked SOR card and the SOR controller the key A. Write data before must be checked SOR card and the SOR controller the key B.

NOTE

Card and controller Data transfer required check Key A /Key B and distribution Code.

By example to get familiar with SIM Card's Key A / Key B.

Setting SIM Card Key A / Key B

- Step 1. Ending all SOYAL software and plug in AR-737P's USB to PC open MIFAREKEY software.
- Step 2. Selection COM Port.
- Step 3. Selection controller item No. For example: AR-737P.
- Step 4. Click "Connect" button to connect.
- Step 5. If status bar show "Decice Login OK! " indicates successful connection.
- Step 6. Place SIM card to the AR-737P the MIFARE software will show SIM icon.
- Step 7. Selection "Store in SIM/CIM/UIM Data Block" write data to SIM/CIM/UIM block.
- Step 8. Input the desired Key A / Key B (Key A=12 16 Hex value, Key B=12 16 Hex value).
- Step 9. Selection A: Decrement, B: Increment in "Config [Trailer]".
- Step 10. Selection 16 in "Dest" field (Save Key A/ Key B to 16th Block)
- Step 11. Press "Execute" button.
- Step 12. If status bar show "Write KeyAB to SIM/CIM/UIM OK! " indicates that the data successfully written SIM card.
- Step 13. Selection Config [Trailer] "Default(FF078069)" to set another Key A / Key B.
- Step 14 Selection 17 in "Dest" field (Save Key A/ Key B to 17th Block)
- Step 15. Press "Execute" button.
- Step 16. If status bar show "Write KeyAB to SIM/CIM/UIM OK!" indicates that the data successfully written SIM card.

SOR Programming Tools (Version 2.08) Step		Soy
Read/Write Unit Selection O AR721 H/W/D D R0 10/020 O AR737P/U Step 3 R821EF/629E O TSL-0061/63/66 O AR727H / 747H	Step 6. Step 6	Abevice Key Status Null Null Null Null Null Null
Launch KEY A/B Operation [12 Digitals (0-9) SIM Setup Device Key Buffer CIM Step 77.4edia Trailer Block UIM Store in SIM/CIM/UIM Pata Block From SIM/CIM/UIM >> Device Key LAM From SIM/CIM/UIM >> Device Key Prom SIM/CIM/UIM >> TMP Buffer Device From TMP Buffer >> SIM/CIM/UIM From TMP Buffer >> Media Trailer B	A-F)] Step 8: KeyB to KeyA KeyB Config [Trailer: A Decrement B.Increment M Step 9: Jok Dest. 16 Key Index (Already in Step 10. Block Device TMP Buffer Step 11. Execute	KeyA to KeyB to KeyA *********** KeyB ************************************
Media Layer 0 0 0 0 0 (LAM) UserID [Site:User] 0 ↓ 1 ↓ Value Block 0 ID/Mask Sector 02 ♥ Read KEY 00 ♥ Date/Time Sector 03 ♥ Write KEY 01 ♥ Date / Mask € Format Media Date / Mask	Device Layer 101 0 0 0 0 0 Date Limit Check Open System Rules Auto Decrement Medium License Sector 01 Auto Deduct Value 0 LAN Node 1 Global Addr 000 0001 Name Block Name Access Key 0	Null Null Null Null Null Null Null Null ™TKB Soyget TMP Buffer Status Soyget Null Null Null Soyget Null Soyget
CIM Function Assign: ☐ Update License Layer Medium ID Format ⊙ WG 5:5 ○ ABA 10 Status Device Login OK ! Step 5.	Update User ID Update Value Value Soft	Jpdate Date/Time offer Jal Soyal Soyal Comp
Status Write Key AB to SIM/CIM/UIM OKT	Step 12.//Step 16. Soyal Soyal	l Sorgel

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Setting KeyA / KeyB and Config in MIFAREKEY software and write to SIM card block 16 and block 17

NOTE

Currently the SIM card has been stored Key A / Key B data and can active SOR setting in card and controller.

If UIN card and CIM card has been stored Key A / Key B data also can enable card's SOR setting and controller's SOR setting.

% Please keep these cards in a safe place to the rainy day.

B.Enable SOR Controller and SOR Programmer

Using permissions card to active SOR setting in card or controller. The next to introduce is how to use the SIM card to enable AR-737P's SOR setting and how to use the UIM card to set controller and enable controller's SOR setting.

SIM Card Enable AR-737P's SOR Setting

- Step 1. Ending all SOYAL software and plug in AR-737P's USB to PC open MIFAREKEY software
- Step 2. Selection COM Port.
- Step 3. Selection controller item No. For example: AR-737P.
- Step 4. Click "Connect" button to connect.
- Step 5.º If status bar show "Decice Login OK!" indicates successful connection.
- Step 6. Place SIM card to the AR-737P the MIFAREKEY software window will show SIM icon.
- Step 7. / Tick "Check open system rule".
- Step 8. Press "Launch Device" button to enable SOR setting.
- Step 9. If status bar show "Update Device Layer OK! " indicates success enable SOR setting.

ART21 H	Unt Selection	Steplo: Stepl4.
AR737P	Step 3, FF #29E	
DITSL-006	1747H	Step 2.
Launch	KEY A/B Operation [12 Digitals (0.9,A/F)]	The second
SM	O Setup Device Key Buffer	KeyA to 01 - KeyB to
DOM	O Setup Media Trailer Block	WkayA Manana KayB Manana
DUM	Store in SIMCIM/UM Data Block	Config [Trailer] A Decrement B increment
	O From SIM/CIM/UIM >> TMP Buffer	Source Block Dest. 16
DLAM		Key Index (Already in Device)
DLAM Device	O From TMP Buffer >> SIM/CIM/UM	

Device						
Layer	101	0	0	0 1	ס כ	
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🕑 Update	User ID	in p	٧	pdate V	'alue	

us : Update Device Layer OK

Step 9.

UIM Card Set and Enable AR-727H's SOR

UIM Card Set AR-727H's SOR Data

- Step 1. Selection device COM Port (frequency of the device must be MIFARE).
- Step 2. Selection device's node ID. For example: AR-727H node ID is 001.
- Step 3. Selection equipment item No. For example: AR-727H.
- Step 4. Click "Connect" button to connect.
- Step 5. If status bar show "Decice Login OK!" indicates successful connect to AR-727H.
- Step 6. Place UIM card on AR-727H the MIFARE software will show UIM icon.
- Step 7. Selection "From SIM/CIM/UIM>>Device Key" to copy UIM Key A to AR-727H block 00.
- Step 8. Selection 00 in "Key A" field.
- Step 9. Selection 16 or 17 in "Source Block" field.
- Step 10. Press "Execute" button

Step 11. If status bar show "Pass Key A to (00) OK!" indicates that Key A has been successfully written AR-727H block 00.

UIM Card Enable AR-727H's SOR Setting

Step 12. Tick "Check open system rule".

Step 13. Press "Launch Device" to enable AR-727H's SOR setting.

Step 14. If status bar show "Update Device Layer OK!" indicates indicates successful enable.

SOR Progra	mming Tools (Version 2.08)	all Carlos	
Read/Write O AR721 H/ O AR737P/	Unit Selection AW/D CDH010/020 U O AR821EF/829E	Step 6. Step 4.	Step)2. 1 1 1 1 1 1 1 1 1 1 1 1 1
Step 3. AH. 27H	/63/66 /747H KEY A/B Operation [12 Digitals (0-	9.A-F) 1 Step 8.	2012 Null 2012 Null 200 2010 Null 2010 Null 2010 Null 2010 Null 2010 Null 2010 Null
SIM Sound LAM	Setup Device Key Buffer Setup Media Trailer Block Step 77: SIM/CIM/UIM Data Block From SIM/CIM/UIM >> Device Ke From SIM/CIM/UIM >> TMP Buffer	KeyA KeyB KeyB KeyB to None KeyA KeyB KeyB Step 9. Step 9. Store Block 16 Post.	Null Null Null Null Null Null Null Null
Device Media Laver	O From TMP Buffer >> SIM/CIM/UIM O From TMP Buffer >> Media Trailer	Block Device TMP Buffer Execute	
(LAM) UserID (Site Value Block	en la	Step 12. Step 12. Check Open System Ru Time Zong Office Auto Decrement Medium Minus value allowed	Null Null Null Null Null Null Null Null
ID/Mask Se Date/Time S	ctor 02 × Read KEY 00 × Sector 03 × Write KEY 01 × mat Media Date / Mask	□ Enable Global Media □ Load Lift Data from Med License Sector 01 Aut Step 13 0 LAN Node 1 Launch Devic	Ium TMP Buffer Status
CIM Function Medium ID	unc. F Launch Lunck 144 Assign: Dupaate License Lave	Name Block 00 * Name Access Key 00	
⊙WG 5:FS Status	Step 11. 10 Pass Key A to (00) OK !	Step 14. Update Device Layer OK 1	Soyan Gayab



NOTE

Reading Key A from UIM card block 16 and write to AR-727H 00 block

AR-727H is saved Key A and can with have a Key A card transmission data. st AR-727H is an access controller and can only be read, when you use UIM Card to Set AR-727H's SOR Data only select Key A (refer to Step 8).

C.Format MIFARE IC \$50

New MIFARE IC S50 card default Key A and Key B are FFFFFFFFFFFFFFFFFFF, the Config Trailer are Default (A:Decrement A:Increment). MIFARE IC S50 card has 16 sectors, each sectors has four blocks, the 4th block usually to save KeyA / Key B and Config Trailer and can't save others data. sector 00 can't save data bacause it has kept the original chip code. Sector 01 is default permission level, sector 02 and sector 03 save new card code, validity and other data, sector 14 and sector 15 is used to store the last 5 records, therefore , it is recommended data not store to these blocks. Card block and sector use planning are as follows:

Sorr					(M
	Sector 00		GM	Sector 08	701
Block 00 (00)	Manufacturer Block	SOR	Block 32 (20)		
Block 01 (01)			Block 33 (21)	a al Can	
Block 02 (02)			Block 34 (22)	Gov	
Block 03 (03)	FFFFFFFFFFFFF078069FFFFFF	FFFF	Block 35 (23)	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	F
Į –	Sector 01	000	a al	Selctor 09	GM
Block 04 (04)	N Call		Block 36 (24)		
Block 05 (05)			Block 37 (25)		
/ Block 06 (06)			Block 38 (26)		0
Block 07 (07)	Contraction Contra	FFFFF	Block 39 (27)	FFFFFFFFFFFFF78069FFFFFFFFF	F
Λ	Sector 02		ak	Sector 10	M
Block 08 (08)	C AN	Goy	Block 40 (28)	507	
Block 09 (09)			Block 41 (29)	1 all	
Block 10 (0A)			Block 42 (2A)	Cont	41
Block 11 (0B)	FFFFFFFFFFFFFFF78069FFFFFFF	FFFFF	Block 43 (2B)	FFFFFFFFFFFFF678069FFFFFFFFF	F
	Sector 03	1		Sector 11	al I
Block 12 (0C)	C all	Cupl	Block 44 (2C)	Golf Golf	
Block 13 (0D)	507		Block 45 (2D)		
Block 14 (0E)			Block 46 (2E)		601
Block 15 (0F)	FFFFFFFFFFFFF078069FFFFFF	FFFFF	Block 47 (2F)	FFFFFFFFFFFFFF078069FFFFFFFFFF	F
51	Sector 04	0	/ 0	Sector 12	
Block 16 (10)		Cud	Block 48 (30)	Canal Sof	
Block 17 (11)			Block 49 (31)	201 I	
Block 18 (12)			Block 50 (32)	CIARU	Callo
Block 19 (13)	FFFFFFFFFFFFF078069FFFFFF	FFFFF	Block 51 (33)	FFFFFFFFFFFF678069FFFFFFFFF	FY
CM	Sector 05			Sector 13	~ ~
Block 20 (14)			Block 52 (34)	now Carlow	(
Block 21 (15)	Carlo	M	Block 53 (35)		
Block 22 (16)	797 . 7		Block 54 (36)		nov
Block 23 (17)	FFFFFFFFFFFFF078069FFFFFF	FFFFF CM	Block 55 (37)	FFFFFFFFFFFFF078069FFFFFFFFFF	F
Carlow	Sector 06	. 701		7 / Sector 14	ND
Block 24 (18)			Block 56 (38)		
Block 25 (19)			Block 57 (39)	Even	it Loo
Block 26 (1A)			Block 58 (3A)		
Block 27 (1B)	FFFFFFFFFFFFFF78069FFFFFF	FFFFF	Block 59 (3B)	FFFFFFFFFFFFFFF78069FFFFFFFFF	F
al	Sector 08	Gov		Sector 15	
Block 28 (1C)			Block 60 (3C)		Carlo
Block 29 (1D)			Block 61 (3D)		- 701
Block 30 (1E)	Me Golf	A	Block 62 (3E)		
Block 31 (1F)	FFFFFFFFFFFF078069FFFFFF	FFFFF	Block 63 (3F)	FFFFFFFFFFFFF078069FFFFFFFFF	F
ak	al	SM	(Soft	n
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Section 4 Format











CIM card Block 16 and Block 17 Key A / Key B be saved into PC TMP Buffer 00 and TMP Buffer 01

NOTE

Now AR-737P and PC TMP buffer have CIM card's Key A and Key B, so the CIM card have to remove the AR-737P.

CIM Card Format MIFARE IC \$50

- Step 1. Place MIFARE IC S50 on AR-737P the MIFARE software will show NEW icon.
- Step 2. Press "Format Media" will open "Format new medium to LAM" window.
- Step 3. Tick all option in "User Sector" field because we will format all 16 sectors.
- Step 4. Source TMP xx : saving TMP buffer status (TMP buffer 00 and TMP buffer 01) to MIFARE/ IC S50 sector. We will save TMP Buffer status 00 data into sector 00~13 and save TMP Buffer status 01 data into sector 14~15 (TMP Buffer status 00: A: Decrement, B:Increment, TMP Buffer status 01:A: Decrement, A:Increment).
- Step 5. A new midia (new MIFARE card) default value use Key A as master code to read and write data into media. Because MIFARE IC S50 is a new card, so "Use KeyAB Type" field select Key A (default).
- Step 6. In order to easy programming the new media, SOYAL put this default vale at the 32nd key (initial key) of device for user. Because MIFARE IC S50 is a new card, so "User Key at" field select 32 (default).
- Step 7. Press "RUN" to Format, all sector shows OK.
- Step 8. Press "EXIT" to quit.

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Op Programming Tool: (************************************	Soya	/	Soyau	Sol	/	20%
Production Units Description Stop 1. L Out // APS 21 PU/ Out // APS 21 EF // S2/E Description // Comme End Description // Comme End Description // Comme End Add 25 // PU/ Out // APS 21 EF // S2/E Image: Amage: Amage	ster SOR Programming Too	ols (Version 2.08)	Gans		Gar	- DE Sou
Lunch VEY AB Operators [12 bgcals (9 - Ar)] KeyA to KeyB to Nati	Read/Write Unit Selec O AR721 H/W/D O AR737P/U O TSL-0061/63/66 O AR727H / 747H	tion Soft OFFOID/200 OAR821EF/829E Soft	al Soval		t 1 Device F 000:0k Im Port 01:0k Change Division	iey Status (Null Null Null Null
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Launch+++ Name Block Name Access Key Linuit CIM Function Assign: Longing Linuit Linuit Underson KL	Value Block ID/Mask Sector 02 Step/2_Sector 03 Eormat Media	0 ♥ Read KEY 00 ♥ ♥ Write KEY 01 ♥ Date / Mask	Hinus Value and Mec License Sector 01 LAN Node 1 Global Addr 000 0	ia Load Lift Data from Auto Deduct Value (Launch (Medium TMP Bu DOD:OK DOD:OK DOD:OK DOD:OK DOD:OK	For Status
Support of the second of the	CIM Function Assign: Medium ID Format © WG 5:5 A Status Copy Key	Launch Launch+++ Duodaie Lovense Lave 3A 10 form SIM(17) to Template Bu	Name Block	Name Access Key	Ru - Supulate Date	nine Soyal Cm
Format new medium to 1. LM (Config Trailer Block with TMP Block that from SIM/CIM) Step 3. Uset a start Step 4. Step 5. Uset a start Step 4. Step 5. Uset a start Step 5. Step 6. Sector 00(0K) OI OI OI Sector 01(0K) OI OI OI OI Sector 02(0K) OI OI OI OI OI Sector 03(0K) OI OI OI OI OI OI Sector 03(0K) OI OI OI OI OI OI OI Sector 03(0K) OI	d	Canal	Sort		Sonta	50%
Sector:00(0K) 90 01 02 03 0KeyA 0KeyB 32	Format new medium to	LAM (Config Trailer Block Step 4.	with TMP Block that fr	om SIM/CIM) X	So.	fall
Sector (1115) OD O1 O2 O3 OKeyA OKeyB 32 V Sector 02(OK) OB O1 O2 O3 OKeyA OKeyB 32 V Sector 03(OK) OB O1 O2 O3 OKeyA OKeyB 32 V Sector 03(OK) OB O1 O2 O3 OKeyA OKeyB 32 V Sector 04(OK) OB O1 O2 O3 OKeyA OKeyB 32 V Sector 05(OK) OB O1 O2 O3 OKeyA OKeyB 32 V Sector 05(OK) OB O1 O2 O3 OKeyA OKeyB 32 V Sector 05(OK) OB O1 O2 O3 OKeyA OKeyB 32 V Sector 07(OK) OB O1 O2 O3 OKeyA OKeyB 32 V Sector 10(OK) OB O1 O2 O3 OKeyA OKeyB 32 V Sector 11(OK) OB <t< td=""><td>Sector:00(OK)</td><td>01 O2</td><td>03 <mark>Ok</mark>eyA (</td><td>) Кеув 32 • 50%</td><td>pour</td><td>l Soya</td></t<>	Sector:00(OK)	01 O2	03 <mark>Ok</mark> eyA () Кеув 32 • 50%	pour	l Soya
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V Sector U3(0K) OU O1 O2 OKeyA OkeyB S2 Sector U3(0K) O0 O1 O2 OkeyA OkeyB S2 Sector U3(0K) O0 O1 O2 OkeyA OkeyB S2 Sector U3(0K) O0 O1 O2 OkeyA OkeyB S2 Sector U3(0K) O1 O1 O2 Sketor U3(0K) O1 O2 Sketor U3(0K) O1 O2 Sketor U3(0K) O1 O2 Sketor Sket	Sector:02(OK)	01/02	O3 OKeyA (OKeyB 32 ▼		Soyal
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□ Sector.08(0K) ○0 ○1 ○2 ○3 ○ KeyA ○ KeyB 32 ○ ○ Sector.09(0K) ○0 ○1 ○2 ○3 ○ KeyA ○ KeyB 32 ○ ○ Sector.09(0K) ○0 ○1 ○2 ○3 ○ KeyA ○ KeyB 32 ○ ○ Sector.09(0K) ○0 ○1 ○2 ○3 ○ KeyA ○ KeyB 32 ○ ○ Sector.11(0K) ○0 ○1 ○2 ○3 ○ KeyA ○ KeyB 32 ○ ○ Sector.11(0K) ○0 ○1 ○2 ○3 ○ KeyA ○ KeyB 32 ○ ○ Sector.12(OK) ○0 ○1 ○2 ○3 ○ KeyA ○ KeyB 32 ○ ○ Sector.13(OK) ○0 ○1 ○2 ○3 ○ KeyA ○ KeyB 32 ○ ○ Sector.14(OK) ○0 ○1 ○2 ○3 ○ KeyA ○ KeyB 32 ○ ○ Sector.15(OK) ○0 ○1 ○2 ○3 ○ KeyA ○ KeyB 32 ○ ○ ○	El Sector Da(OK)			Keyb 32		Call
□ Sector.09(0K) ○ 0 ○ 1 ○ 2 ○ 3 ○ KeyA ○ KeyB 32 ○ ☑ Sector.10(0K) ○ 0 ○ 1 ○ 2 ○ 3 ○ KeyA ○ KeyB 32 ○ ☑ Sector.11(0K) ○ 3 ○ 1 ○ 2 ○ 3 ○ KeyA ○ KeyB 32 ○ ☑ Sector.11(0K) ○ 3 ○ 1 ○ 2 ○ 3 ○ KeyA ○ KeyB 32 ○ ☑ Sector.12(0K) ○ 0 ○ 1 ○ 2 ○ 3 ○ KeyA ○ KeyB 32 ○ ☑ Sector.13(0K) ○ 0 ○ 1 ○ 2 ○ 3 ○ KeyA ○ KeyB 32 ○ ☑ Sector.14(0K) ○ 0 ○ 1 ○ 2 ○ 3 ○ KeyA ○ KeyB 32 ○ ☑ Sector.15(0K) ○ 0 ○ 1 ○ 2 ○ 3 ○ KeyA ○ KeyB 32 ○<	Sector PP(OIA		O3 OKeyA	Keyb J2	Soy	500
✓ Sector.11(OK) ○B ○1 ○2 ○3 ○KeyA ○KeyB 32 ✓ ✓ Sector.11(OK) ○B ○1 ○2 ○3 ○KeyA ○KeyB 32 ✓ ✓ Sector.11(OK) ○B ○1 ○2 ○3 ○KeyA ○KeyB 32 ✓ ✓ Sector.12(OK) ○B ○1 ○2 ○3 ○KeyA ○KeyB 32 ✓ ✓ Sector.13(OK) ○B ○1 ○2 ○3 ○KeyA ○KeyB 32 ✓ ✓ Sector.14(OK) ○B ○1 ○2 ○3 ○KeyA ○KeyB 32 ✓ ✓ Sector.14(OK) ○B ○1 ○2 ○3 ○KeyA ○KeyB 32 ✓ ✓ Sector.15(OK) ○B ○1 ○2 ○3 ○KeyA ○KeyB 32 ✓ ✓ ▲uto Repeat Done: 00001 Run Once EXIT ✓ ✓ ✓ ✓	Sector 09(01A		O3 OKeyA (KeyB 32	Gou	pail
✓ Sector:11(0K) ○1 ○2 ○3 ○ KeyA ○KeyB 32 ✓ ✓ Sector:12(0K) ○0 ○1 ○2 ○3 ○ KeyA ○KeyB 32 ✓ ✓ Sector:13(0K) ○0 ○1 ○2 ○3 ○ KeyA ○KeyB 32 ✓ ✓ Sector:13(0K) ○0 ○1 ○2 ○3 ○ KeyA ○KeyB 32 ✓ ✓ Sector:14(0K) ○0 ○1 ○2 ○3 ○ KeyA ○KeyB 32 ✓ ✓ Sector:15(0K) ○0 ○1 ○2 ○3 ○ KeyA ○KeyB 32 ✓ ▲uto Repeat Done: 00001 Run Once EXIT Suph Suph Suph	Sector 10(OK)			KeyB 32	al	o al
✓ Sector 12(0K) ○0 ○1 ○2 ○3 ○KeyA ○KeyB 32 ✓ ✓ Sector 13(0K) ○1 ○2 ○3 ○KeyA ○KeyB 32 ✓ ✓ Sector 14(0K) ○0 ○1 ○2 ○3 ○KeyA ○KeyB 32 ✓ ✓ Sector 14(0K) ○0 ○1 ○2 ○3 ○KeyA ○KeyB 32 ✓ ✓ Sector 15(0K) ○0 ○1 ○2 ○3 ○KeyA ○KeyB 32 ✓ ▲uto Repeat Done: 00001 Run Once EXIT Supple Supple	Sector 11(0k)	01 02		KevB 32		Soy
✓ Sector: 13(OK) OI O1 O2 O3 OKeyA OKeyB 32 ✓ ✓ Sector: 14(OK) OI O1 O2 O3 OKeyA OKeyB 32 ✓ ✓ Sector: 14(OK) OI O1 O2 O3 OKeyA OKeyB 32 ✓ ✓ Sector: 15(OK) OI O1 O2 O3 OKeyA OKeyB 32 ✓ Auto Repeat Done: 00001 Run Once EXIT Suph Suph	Sector 12(0K)	00 01 02		KevB 32	Cana	
✓ Sector:14(0K) ○0 ○1 ○2 ○3 ○KeyA ○KeyB 32 ✓ ✓ Sector:15(0K) ○0 ○1 ○2 ○3 ○KeyA ○KeyB 32 ✓ Auto Repeat Done: 00001 Run Once EXIT Stop 2	MSector 13(0k)	00 01 02	O3 OKeyA	OKevB 32	701	Cual
✓ Sector: 15(OK) OB O1 O2 O3 O KeyA O KeyB 32 ✓ Auto Repeat Done: 00001 Run Once EXIT Stopp 7 Stopp 7	Sector 14(0KC			KevB 32	0	Soll
Auto Repeat Done: 00001 Run Once EXIT	Sector 15(0K)	00 01 02		KevB 32	Gazal	6
Stop 7 Stop 7	Auto Repeat	Done: 00001	Run Once	EXIT	201	Cural
	Carl		Step 7	Step 8		70%

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TMP Buffer value to reset new card each sector Key A / Key B and Config

D.Editing Formatted Card

The following is MIFAREKEY software provides can be edited the content:

- 1. Distribution Level
- 2. Programming USER ID
- 3. Card Value (0~32767)
- 4. Validity Period
- 5. Global Access Conditions and Global Access Address
- 6. User Name
- 7. Command
- 8. Change the Default Address

* Data set is complete remember to press the ooo button and generate ok messages to ensure that the settings have been saved.

2. Programming USER ID

SOR controller will read SOR card UserID as shown on, for example: 01234 00001. General, card code use WG code:5 digits card site code and 5 digits card code and must be less than 65535.

- Step 1. Input 5 digits card site code and card code.
- Step 2. Press "LAUNCH MIDIA" and the status would change to "LAM".



3. Card Value

Card value must be an integer and should be less than 32,767.

Step 1. Input value.

Step 2. Press "Launch" button.

Media Layer	0 687	ford	50
(LAM) Lingt	12 13	L4 5057	LE
UserID [Site:User]	01234 🚔	000	01 🚔 Cape
Value Block	71	150¢	Step 1
ID/Mask Sector	02 💌 Re	ad KEY	10 💌 al
Date/Time Sector	03 🗸 Wr	ite KEY 0	11 🗸
Bey Edimai Ma	dia 🔯	Date / Ma	ask
BOUM FURE	🖨 Launch	Step 2. th	ingan

4. Validity Period

Here are 2 groups validity of to the user and the flexibility in the user

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Step 1. Press "Date / Mask" will open "Expiry Date / User Name Edit" window.

Gort

- Step 2. Input starting date and ending date.
- Step 3. Press "Launch" button.

Media Gov	Expiry Date / Gar Name Edit	Sten 2	
Layer 101 0 0 0 0 0	Begin Date / Time Eyery D	ute / Time	nal a boy
(LAM) and IZ IS IS IS TO THE	2010/09/23 - 00-00 - 00/00/23	× 23.59 : 70	
UserID [Site:User] 01234 🜩 00001 🜩	20100327 • 0100 - 55 251 1111 4	a and a and a second	GX En
Value Block 500 150C	Global Address 1 000 002 005 0000 0		al
	Global Address 2 000 000 000 0000 0	000 0000 0000 0000 000	Soy
ID/Mask Sector 02 🗙 Read KEY 00 🗙	User Name Block		
Date/Time Sector 03 - Write KEY 01 -	User Text (10 Char) Ryan	Ma Store Block 01(01H) Y	Bread Write
Step 1.	Way of Line Instructions 70	The second secon	
Eormar Media Date / Mask	SOR command Start Block None Y	Access Key Index 00(00H)	Total Instruction: 000
	Instruction (Byte order(00) 01	02 03 04 05 06 07 08	09 0A 08 0C 00 Link(0E)
Could Funct Stop 3th+++	00 Batch and Mask 🛛 00	00 00 00 00 00 00 00	00 00 00 00 00 End ¥
Contraine T Englisher Otep 3.	l OI Batch and Mask 🔟 00	00 00 00 00 00 00 00	00/000 00 00 End v
Carlos Soft	02 Batch and Mask 9 00	00 00 00 00 00 00 00	00 00 00 00 00 End e
. 70	(00h)Batch Mask2 Mask1 Mask0 Add/2 Ad	dr1 AddiO Mask2 Mask1 Mask0 Addi2 /	Addrit Addd Link anged
all Carrol			
Soft	Pearl Write	Frate	Show Next Show Pres Cauge

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5. Global Access Conditions and Global Access Address

Setting the number to be checked when SOR be used in global access control, through 2 Hex 0 and 1 determine the need for reconciliation, 0 means do not check the data, 0 represents the need to verify the data. A total of 3 bytes, If you enter the data base 10, please remember to convert to 2 decimal. If you input 255.255.255 that is mean for each byte need to be checked, each card and controller's byte are the same can access. Each field the maximum value is 255.

Step 1. Press "Date / Mask" button will open "Expiry Date / User Name Edit" window. Step 2. Enter to be checked the value. Step 3. Press "Launch" button.

Media	Expiry Date / Une Name Edit //
Layer 10 0 0 0 0 0	Begin Date / Time Expiry Date / Time
(IAM) 11 12 13 14 15 18	2010/09/23 - 00.00 - >> 2020/09/23 - 23.59 -
- Gove	2010/09/24 + 00:00 : >> 2011/10/20 + 60:59 : Stop 2
UserID [Site:User] 01234 🖨 00001 🚔	
Value Block 1500	Global Address 1 022 002 005 0000 0000 0000 0000 0000
	Globy Address 2 000 000 000 0000 0000 0000 0000 00
ID/Mask Sector 02 👻 Read KEY 00 💌	Wheer Name Black 701 701
Date/Time Sector 03 V Write KEY 01 V	User Text (10 Char) Ryan Store Block 01 (01H) V Bead Writer
Step 1.	Of Line Individually Soft
Format Media	SOR command Start Block None 🗠 Access Key Index 00(00H) 👻 Total Instruction: 000
	2 Instruction Byte order(00) 01 02 03 04 05 06 07 08 09 0A 08 0C 0D Link(0E)
GallM Fund Stop 3 http:	00 Batch and Mask 🕑 00 00 00 00 00 00 00 00 00 00 00 00 00
Contraction Cooperation	01 Batch and Majik v 00 00 00 00 00 00 00 00 00 00 00 00 0
and Gorge	02 Earth and Mask v 00 00 00 00 00 00 00 00 00 00 00 00 0
P 1	(ODh)Batch Mask2 Mask1 Mask0 Add/2 Addr1 Addr0 Mask2 Mask1 Mask0 Add/2 Addr1 Add/0 Link
Cural Cural	
Soft Soft	Read Write Erase Show Next Show Prev

6. User Name

Media Layer (LAM UserII Value ID/Ma Date/

For the store name the default address is 01H, you can according to the demand change the user name, but remember to set controller's user name address, mainly in order to make cards and controller consistent with the data. The maximum value is 10 letters and five Chinese characters.

Step 1. Press "Date / Mask" button will open "Expiry Date / User Name Edit" window. Step 2. Input name and press "Write" button.

Step 3. Press "Launch" button.

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20/101	0 0	0 9	10/0		Beg	in Date / 1	Time	E	piry l	Date /	Time							1	300		-	
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201		4	of		R	ead	Write	4			-	Erasie					She	w Nex	1 3	how Pre	EN.	
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8. Change the Default Address

Default card code, value be saved in sector 02 and validity period be saved in sector 03, as shown below. Responsible for writing feature Is KeyB and responsible for writing feature Is KeyA, so the AR-737P buffer be used for read is 00 and the AR-737P buffer be writed for read is 01. Gon

Step 1. Select the "Read KEY" and "Write KEY" value. Step 2. Press "Launch" button.

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NOTE

If SIM card used to load Key A and Key B to the device, software will show "LAN" indicates that the card was formatted.

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SOYAL Product Line Training Course

E.Editing Instruction Card

AR-737P is to edit instruction card an important medium, to make use of the card user can quickly understand and use SOR provided by the functions, SOYAL software MIFAREKEY opening many instructions and operation of to the user their own edit and modify. These open instructions include:

- 1. Setting the controller basic data, for example: controller Time correction, node ID, SOR parameters etc.
- 2. Adding card
- 3. Deleting card
- 4. Reading standalone controller messages.

Press "Date/Mask" button to open Expiry Date / User Name Edit window. Instruction starting address is 16H, the first instruction must be Batch and Mask and connect next instruction through "Next". Batch and Mask be used to determine the number of instruction. If controller have a consistent Key A / Key B and Distribution Code then can implementation of the instruction.

etting Controller Data

For example: Setting function card to modify the controller function, data can be modified as follows: 1. Node ID = 002 2. Door Number=002 3. Lock Relay Time=003 sec 4. Read user name

- Lock Relay Time is 3 sec =3000 ms=012C, base on 10ms.
- GID2/1/0 be used in Door Lock to set Global node ID.
- ※ Instruction format is 16 hex.
- Step 1. Instruction starting address is 16 (10H).
- Step 2. Batch and Mask last field value selection "Next" to connect next instruction.
- Step 3. Selection "Node Parameter".
- Step 4. Instruction address 01~03 save global node ID data: 00 00 02.
- Step 5. Instruction address 04 save node ID; 02 (002 (10 hex) conversion to 16 hex is 02).
- Step 6. Instruction address 05~06 save Lock Relay Time: 01 2C=3000ms (3000 (10 hex) conversion to 16 hex is 01 2C)
- Step 7. Instruction address 07~08 save door number: 00 02 (2 (10 hex) conversion to 16 hex is 00 02).
- Step 8. Instruction address 09 save user name: 01, because user name be saved in card block 01.
- Step 9. Instruction address 0A save Name-Key: 00, because Key be saved in controller buffer

Step 10. Press "Write" button.

Expiry Date / User Name Edit

tep 4.	00	00	00	00		/ / / /							
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00 00	00	00	00	00	00	00	00	00	00	00	00	End	~
0	00 00 Addr1 i	00 00 Addr1 Addr0	00 00 00 00 Addr1 Addr0 Maski	0 00 00 00 00 00 Addri Addr0 Mask2 Mas	0 00 00 00 00 00 00 Addri Addri Mask2 Mask1 Ma	0 00 00 00 00 00 00 Addri Addri Mask2 Mask1 Mask0 A	0 00 00 00 00 00 00 00 00 Addri Addri Mask2 Mask1 Mask0 Addri2 /	0 00 00 00 00 00 00 00 00 00 Addr1 Addr0 Mask2 Mask1 Mask0 Addr2 Addr1	0 00 00 00 00 00 00 00 00 00 00 00 00 0	0 00 00 00 00 00 00 00 00 00 00 00 00 0	0 00 00 00 00 00 00 00 00 00 00 00 00 0	0 00 00 00 00 00 00 00 00 00 00 00 00 0	0 00 00 00 00 00 00 00 00 00 00 00 00 End Addr1 Addr0 Mask2 Mask1 Mask0 Addr2 Addr1 Addr0 Link

Chapter 14 SOR & Mifare Key Sector 6 Editing Instruction Card and Setting Distribution Layer's Controller and Permissions card

F.Setting Distribution Layer's Controller and Permissions card

A total of 6 layers distribution layer, SOYAL sales of products is the first distribution layer, first distribution layer sales of products must to set the sceond distribution layer code. Card and the controller layer must be the same can communicate with each other. The following is a the distribution Code description:

The first distribution code (SOYAL sales of products is the first distribution layer): 1-60,000.

The second distribution code: 1-60,000.

The third to 6th distribution code: 1-250.

For example: distribution (distribution No. 101) will sales AR-737P to his customer (customer No. 111)

Setting the Second Distribution

- Step 1. AR-737P connect to PC.
- Step 2. Place SIM card (distribution No. 101's SIM card) on AR-737P.
- Step 3. "Device Layer" field: Input 111.
- Step 4. Press "Launch Device" button.



Setting the Second Distribution Permission Cards

- Step 1. The first layer AR-737P connect to PC
- Step 2. Place the first layer SIM card on AR-737P and from AR-737P remove the SIM card.

Step 2.

Step 3.

- Step 3. Place the second layer SIM card on AR-737P.
- Step 4. Selection SIM in "Launch" field.
- Step 5. Input 111 in "Media Layer" field.
- Step 6. Press "Launch" button.

(a) 20E Programming Linds (Verners 21E)	C . MAR ET
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Name Access Key	



Present the first layer SIM card to AR-737P to enable next layer card

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From AR-737P remove the SIM card