IC

SJT-CIC-V2.0

1 ! IC " # $ % & ' (..... 1
1.1 % & ' (..... 1
1.2 % &) * 1
1.3 % & + , - 1
1.4 % & + , / 0 1
2 ! 1 2 3 4 5 6 7 + , 8 9 1
2.1 ! IC " # $: ; < = ... 1
2.2 ! IC " # $ + * > ? @ A B C D / E F IC " # $) * 3
2.2.1 ! IC " # $ + * 3
2.2.2 @ A B C D / E F IC " # $) * 3
2.3 ! IC " # $ G ; + , ... 4
2.3.1 ! IC " # $ G H I J K 4
2.3.2 ! IC " # $: L M : N O P Q R S 5
3 T U V W 3 4 5 6 7 + , 8 9 5
3.1 ! IC " T U % & ; < = ... 5
3.1.1 T U % & X . ; < = ... 5
3.1.2 ! IC " Y Z : ; < =

4.6.2 w x 3 { 31
4.7 | } % & 32
4.8 % & ~ • 32

1 IC

1.1

! IC " # $ % & , h 3 N T U V W z e , h 3 < = 1 2

y ; ! IC " # $: T U V W ! IC " Y " : N T U % & X . !

\ IC " # $ + * C D IC " # $) * % & w i S ,

w IC " y ; ! y O # $

1.2

- ! # $ _ K , h !
- o # $ + , + , o # $
- B IC ") * # $ _ K @ A B + * IC " # $) *
- /E F E F O IC "
- /E F O ; E F IC "
- o p T d " d " s t u v m n q r N m n s t u v
- # $ o T U Y IC " # $ G y N E F " q r IC " " q r

1.3

IC "

2. < = P

g < = P < = I G S "



2.2 IC / IC



, # $ G ; 3 J13 ; 3 { ! IC " # $; + *
N @ A B C D / E F IC " # $) * J K ; + *
S , 3 ! ; " # C 5 $

2.2.1 IC

! \ IC " # $ + * ! C D
IC " # $) *
IC " # $ + * J13-1 N J13-2 3 J13-1 N J13-2 3 % &
IC " # $ + * J13-1 N J13-2 3 ' & IC " # $ + *

2.2.2 / IC

@ A B C D / E F IC " # $) * ; + * 3 J13-3 N J13-4 !
\ IC " # $ + * J13-3 N J13-4 % &
@ A B C D / E F IC " # $) * J K ( ) * + P J K ,
- @ B) * . / P B C D IC " # $) * - @ B) * 0
/ P B E F IC " # $) * 1 B 2 3 , h " $)) * C D
/ E F 4 5 6 7 B C D IC " # $) * ' C J13-3 N J13-4
8 9 J K : ! i
; 6 7 B C D IC " # $) * - < = > B 2 3 , h
" $? @ + , A J K

2.3 IC

2.3.1 IC

! IC " # $ G B H I JC3 CJC1 CJC2 H I J K ? 4 5 8 9

1. } D E F

+ *	JC3 % & C JC1 C & C JC2 C &
) *	} D E F G H
	I J E F J K L M 2 , h C D

2. ! IC " # $ G N J K

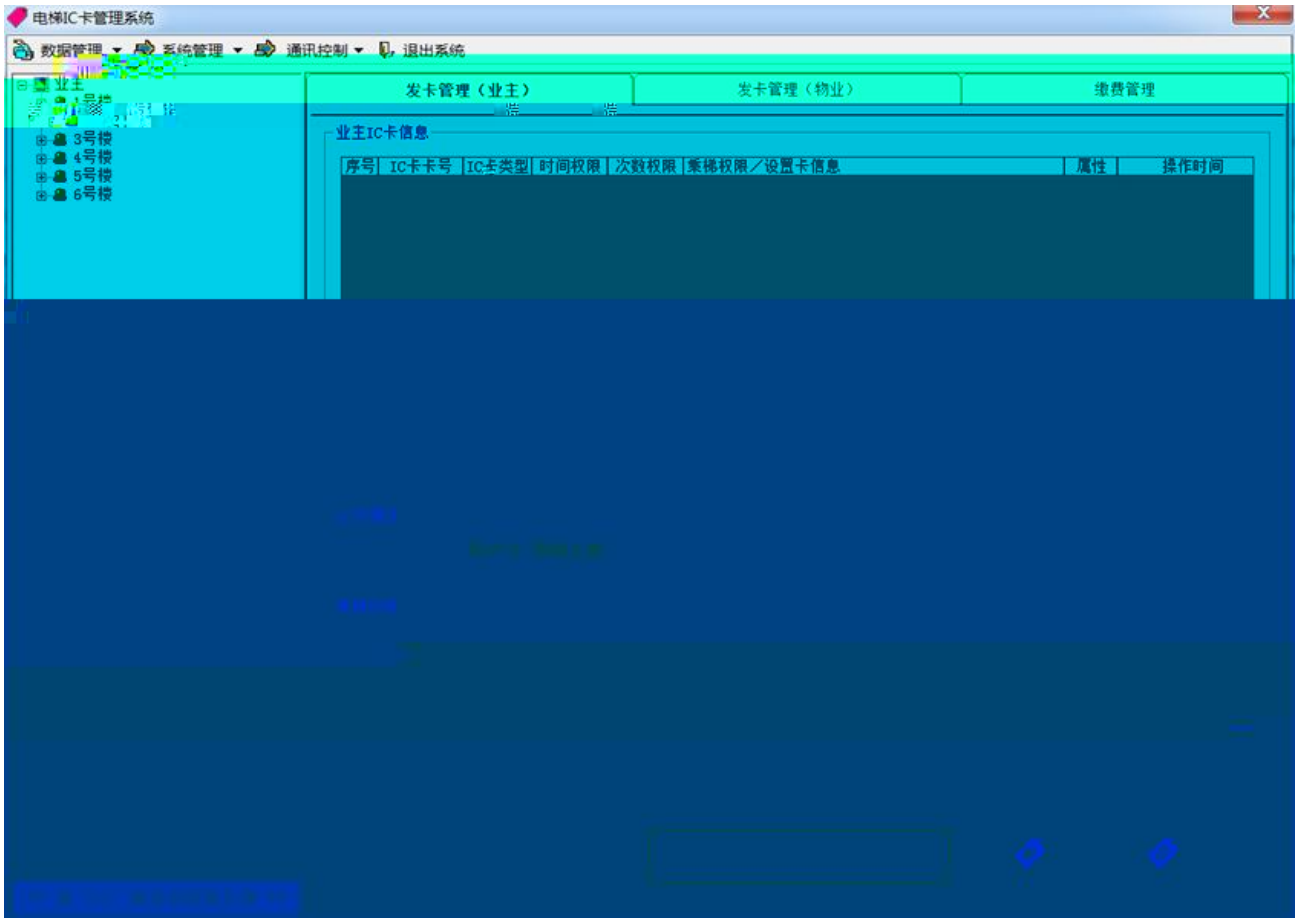
+ *	JC3 C & C JC1 % & C JC2 C &
) *	! IC " # $ G N J K
	IC " # $ G $ O o c P + P IC " # $ G Q A N) K1 R # $ G N , S T) K2 R N U V J K W X 1Y 99 Q o c P + P I J J K ; # $ G N O Z JC1 H I % & 8 9 Q A J K , o c P [\ + P O % &]

3. ! IC " # $ G ^ J K

+ *	JC3 C & C JC1 C & C JC2 % &
) *	! IC " # $ G ^ J K

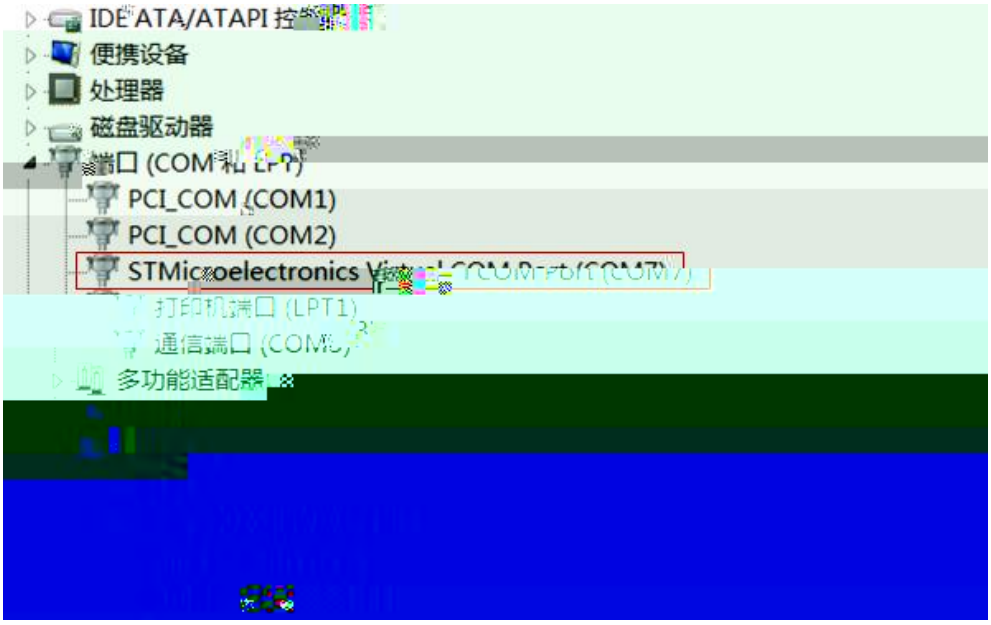
IC " # $ G $ O o c P + P) * c 01 J K _ ` ( O a ) K1 R b + P IC " # $ G Q A ; c d XX. e( ] o f . ) C g d X. X e ( h ] o f . ) C _ d X. X. e ( ] N h ] o f . ) _ ` + P) K2 R i > _ ` J K (j) A K2 R , S 1) J K _ k) K1 R + P) * c 02 J K (O a) K1 R b + P IC " # $ G Q A ; d XX. e ( ] o e d

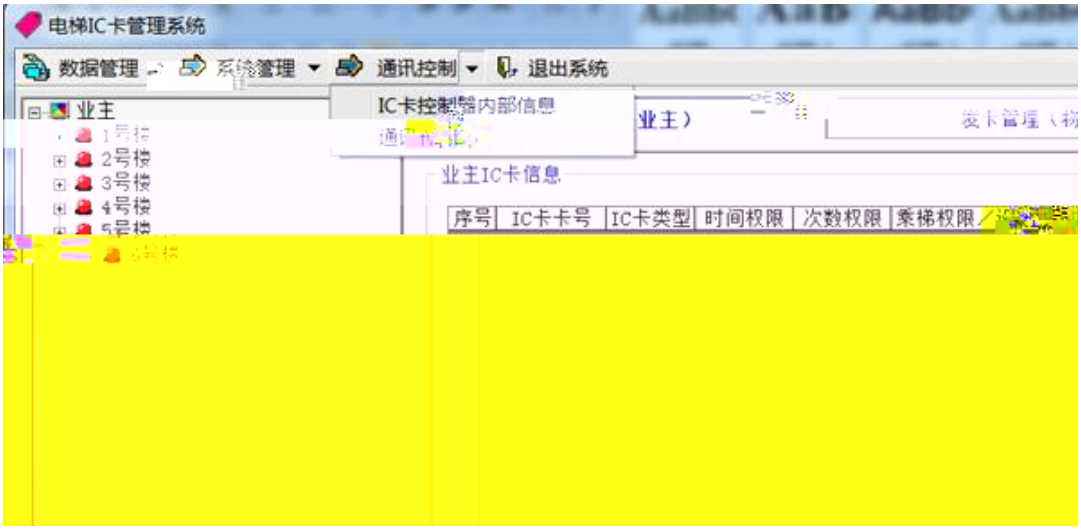
y z + P) * c 01→02→03→01 4 S



Ø ? @ C z A B Y " : A D V A B d SJT-RIC e

Ø A B 6 { E R d F ; G e = d J K T U : e H C O I ! SJT-RIC d " : 4 5 ; 6 { ; 4 5 6 { COM7(j J G $ 4 5 } ; 6 { b 2 A K) L O ! IC " T U % & ^ ? @ A B d w x # $ e = d w x 3 { d 6 3 { A D V M N N u v ; 6 { :) d w e) *







^ ? @) *) * N i , ? @

1.) *) *



? @ $ z 4 5 ; + *) * , u

o p T U - d " q r N m n q r u v

% & T U - ^ J % & + , A I J _ K ; O P A O

w x # $ - N IC " # $ G q r Q 5 ;

| } % & - | } ! IC " T U % &

2.i , ? @

? @ z i , A O R @ S IC " , h T / E @ U

d " T U 8] ^ 9 -] ^ d " ? @

d " T U 8 g] 9 - g] d " ? @

m n T U - m n T U ? @

4.2

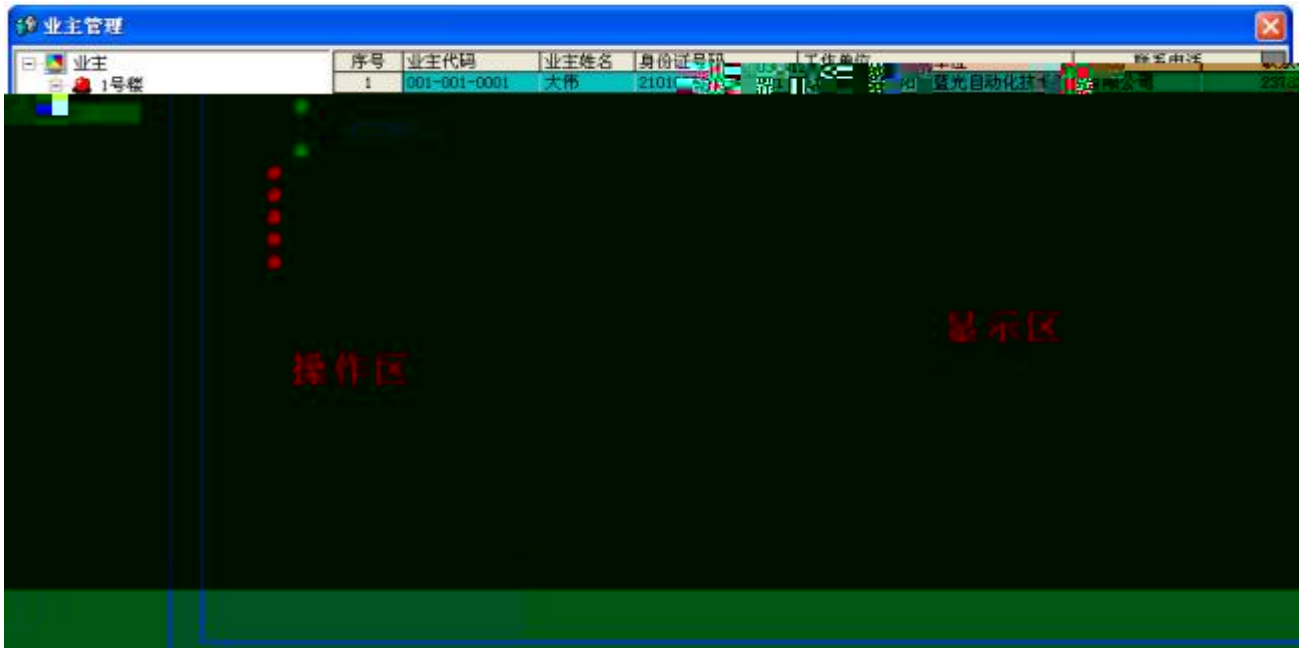
+ , A I J _ K ; O P T U] ^ T U C _ K % & N ` a b c



4.2.1

A B d] ^ T U e] ^ T U) *] ^ T U ? @ u

v C V W C X Y C Z T + P + P [-



1.u v

) \ C] ^ C] ^ ; B + P _ R R] ` 2 ;] K

+ P 4 S ;] ^ q r



2. V W N X Y

_ a \ ! I J V W X Y ;] ^] K] ` _ E R + P b c d]

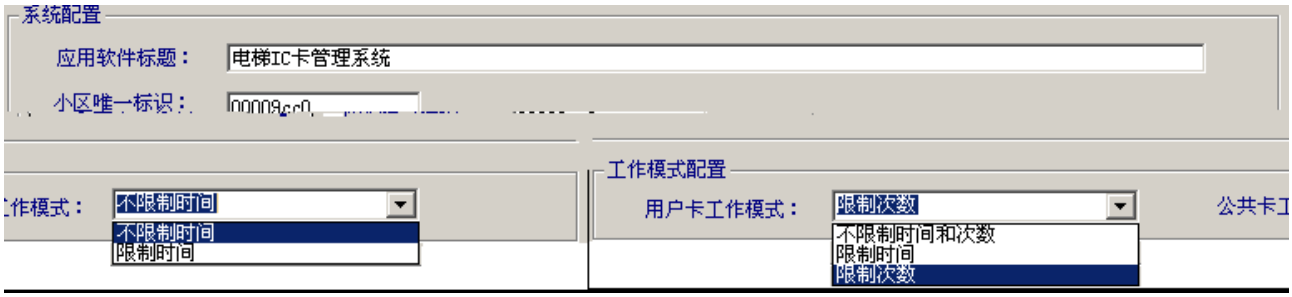


A B d X Y] ^ e O

% & _ K % & _ K C ~ r k _ K C] K _ K N : _ K

a) % & _ K N ~ r k _ K

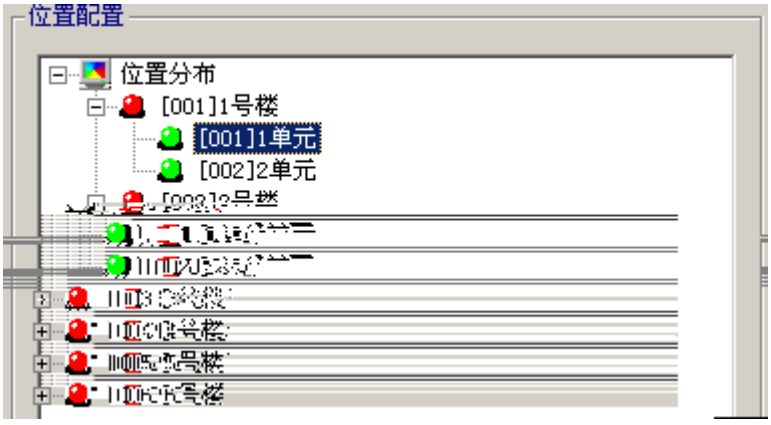
? @



- S , X . l – X . l D + P ; y s
- i A – ; i A c c Z IC " y z N ! IC " # $ G V t u IC " ; i A v 2 2 U ; IC " # $ % & S A B 2 ; : d " O 2 J ` a
- , h " ~ r k – , h " O] ^ + , ; IC " " i > A B $ C $ o 2 $ N o B w ~ r k x A
- & ' " ~ r k – & ' " g] y p + , ; IC " % & y ! ; B " C D ; " i > A B $ 2 $ ~ r k x A

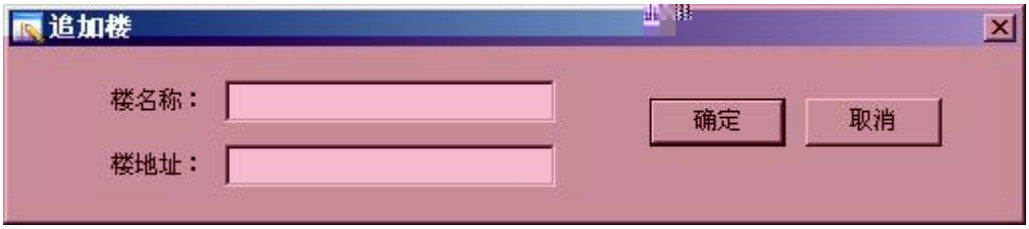
b)] K _ K

] K _ K , ! _ K % & y ; \ q r N \ y] ^ q r :) \ C] ^ ; B + P ? @



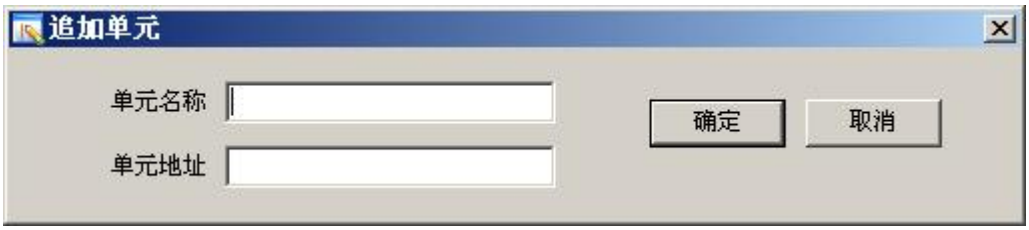
_ a \ ! \ ] ^] K] ` _ E R + P b c d] w b c d] A

B V W C X Y C Z T $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ 3 1 0



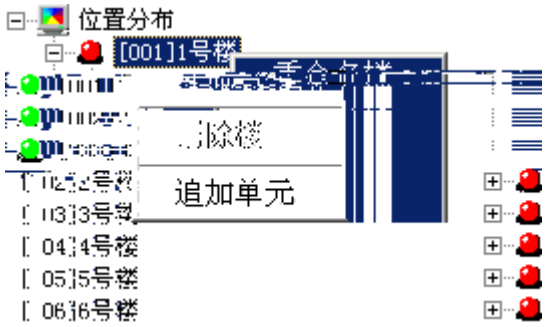
? @ V \ g { N \ N ? q r \ N B] o | ? @ i A \ N \ ; H 3 \ o N A 003 e q r O) d w e) * e # Z T) d e) * Z T) *

- Z T] ^ – _ a \ ! \ ] K] ` _ E R + P b c d] A B O d Z T] ^ e O Z T] ^ ? @



? @ V] ^ g { N] ^ N ? q r] ^ N B] o | A \ y] ^ N ? @ i A] ^ N] ^ ; H 3] ^ o N A 003 e q r O) d w e) * e # Z T) d e) * Z T) *

- } ~ g \ N X Y \ – _ a \ ! \ ] K] ` _ E R + P b c d]



A B d } ~ g \ e O) * ? @ o a e \ g { O) d w e) * e # o a) d e) *) *

A B d X Y \ e O X Y \

- } ~ g] ^ N X Y] ^ – _ a \ !] ^] K] ` _ E R + P b c d]



2. ! IC " # $: _ K

! IC " # $: _ K , ! _ K % & ! N 4 S ; IC " # $: q r

? @



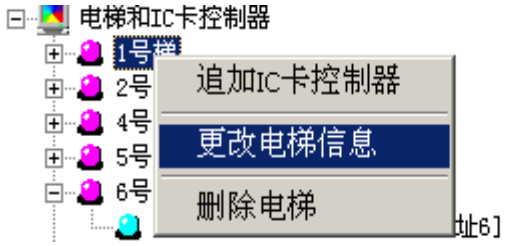
a) Z T !

_ a \ ! ! N IC " # $:] K] ` _ E R + P Z T ! b c d]

A B O Z T ! ? @



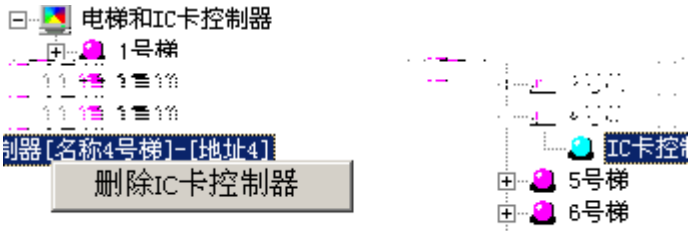
j B + P ; | C ! g { A B • B o N w ! L O)
d w e) * e # Z T) d e) * Z T) *
b) ` a ! q r X Y !
_ a \ ! !] K] ` _ E R + P b c d]



A B d ` a ! q r e O) * ? @ o a e O) d w e) * e #
o a) d e) *) *
A B d X Y ! e O X Y !
c) Z T IC " # $:
IC " # $: < = ! 1 2 y j J ! " # i < = J IC " # $
: I J $ IC " # $: _ K ! 4 S ; ! V % & _ a \ ! S ; !] K
] ` _ E R + P b c d] A B d Z T IC " # $: e O Z T ? @



? @ V IC " # $: N ? @ i A W X 1-99 N IC " # $:
J K ; N 4 e q r O) d w e) * e # Z T) d e)
* Z T) *
d) X Y IC " # $:
_ a \ ! J X Y ; IC " # $:] K] ` _ E R + P d X Y IC " # $
: e b c d] A B O X Y



3. { U o p q
% & + , A i * J d " % & % & k + , A S { Y
' 8 9 ; o p q r (_] ` d { U o p q e) * + P @ 3 P q r



A B d e o p q { U A B d e u

4.2.3

A B d ` a b c e O + P ? @



m b c O) d w e) * e # ` a) d e) * u

4.3

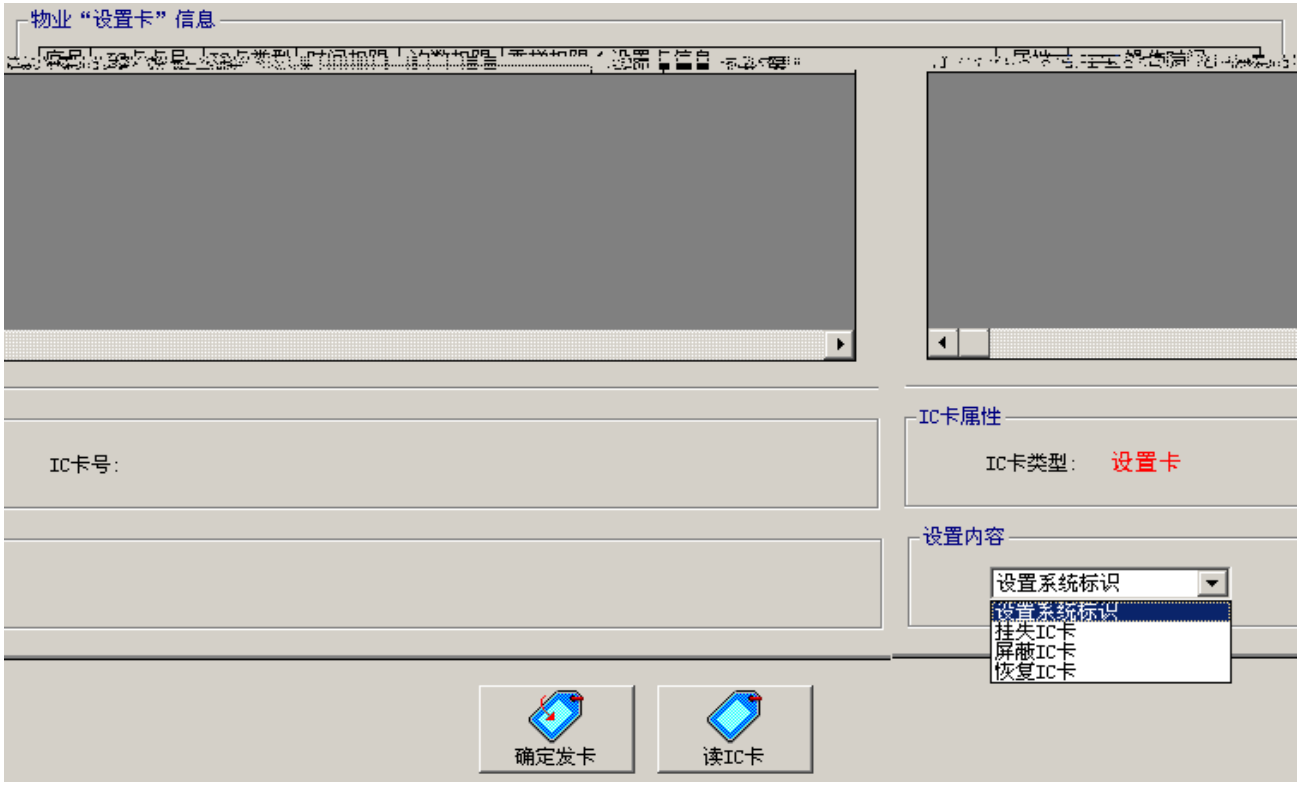
4.3.1 IC

IC " e J K " C & ' " N , h "

J K " 3 ( ) g] T U z ! + , , ! _ K % & C E F

IC "

& ' " 3 ( ) g] T U z ! + , i > ! *

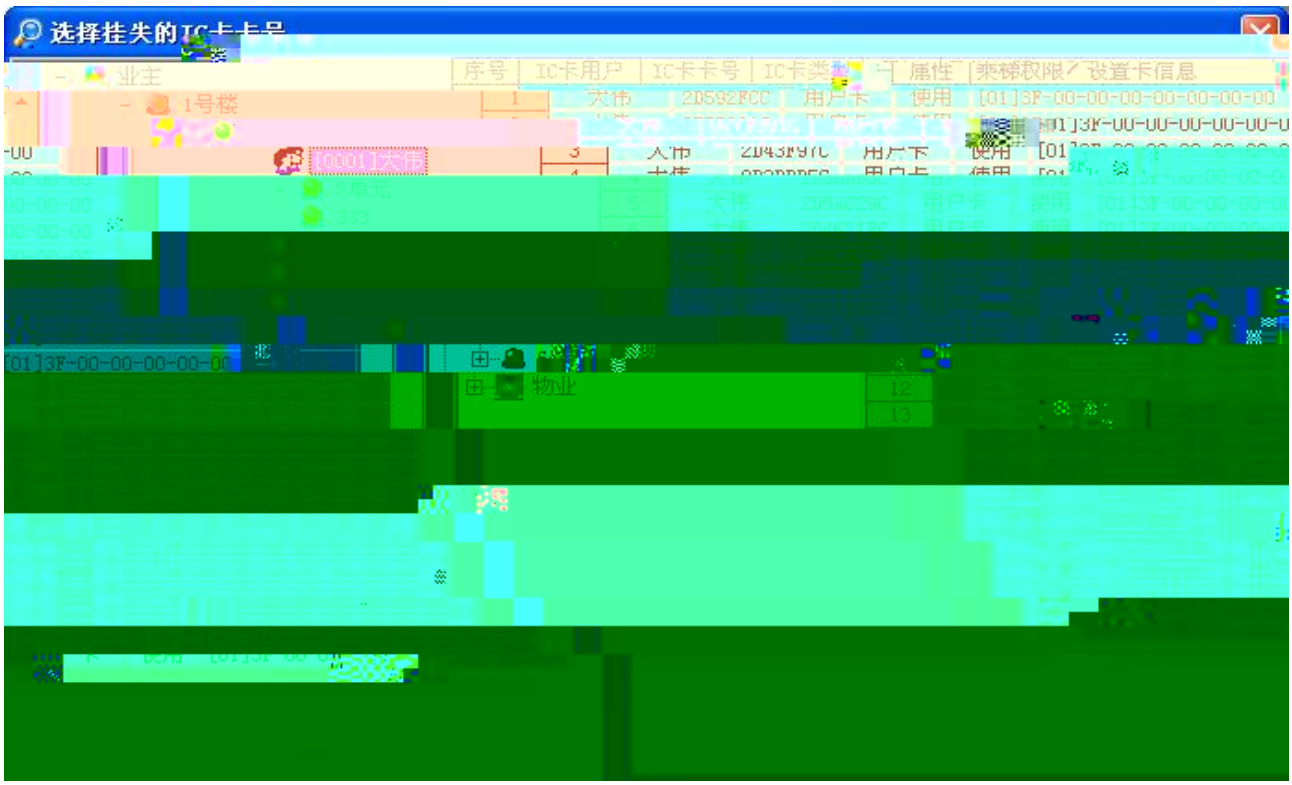


a) J K % &

T / 0 V A B J K % & $ | d IC " D ! Y " : 1 S) d w d " e) * C r d " d " [2 O i > w d Y IC " e) * [\ Y E u d " w

b) C E F C IC "

T / 0 V A B E F IC " + P A B 4 5 " " ;) * _] ` A B ") * 4 S ; " A B ? @



_] ` ? @ R . ; S T / A B , h L O 3 E . + P I ! I J

; IC " " _ R R] ` I J ; IC " " 1 i

c) w d "

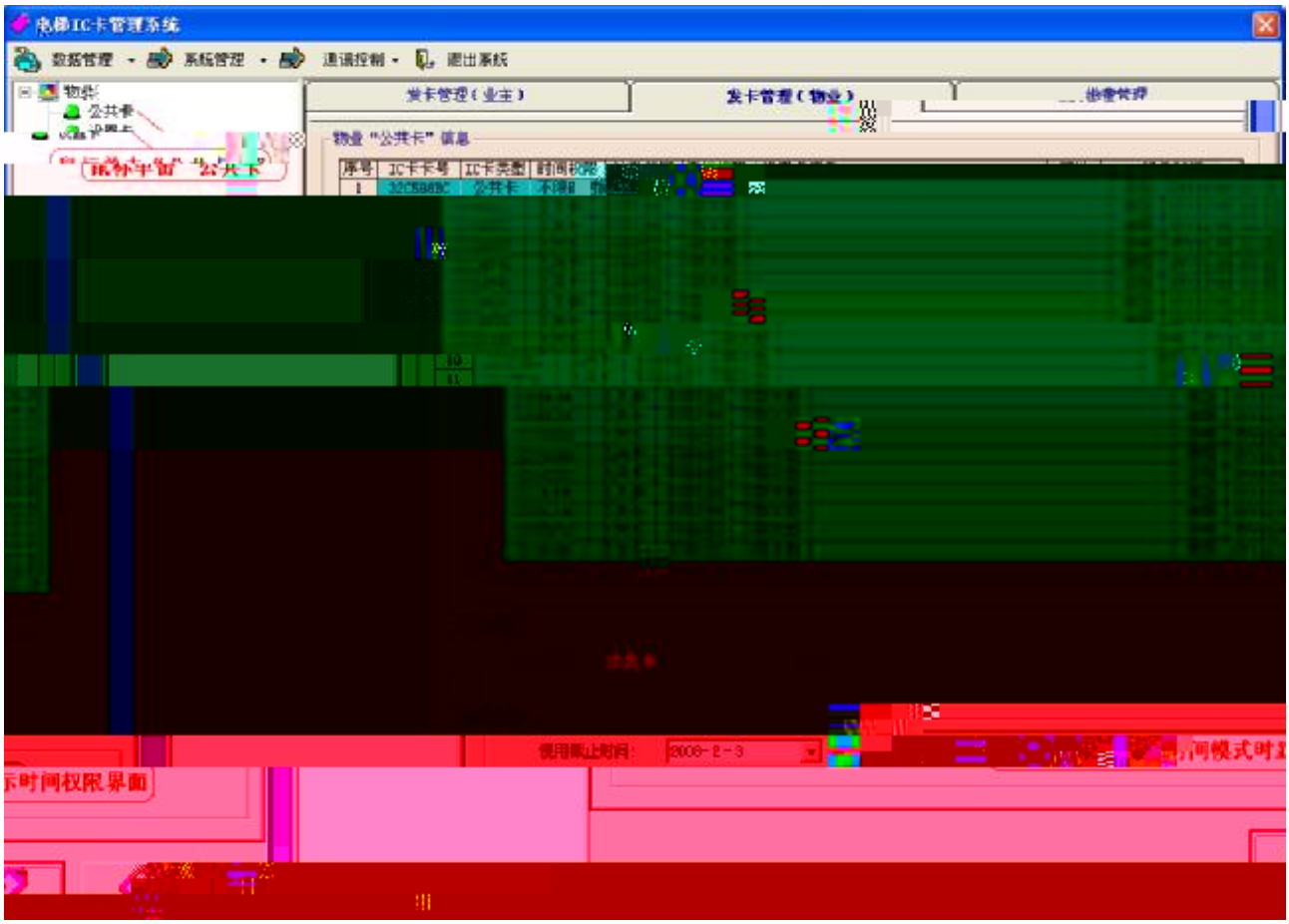
J K % & C E F C IC " O $ | d IC " D ! Y " : 1 S

) d w d " e) * C r d " d " [2 O i > w d Y IC " e) * [

\ Y E u d " w

2. d & ' "

_] ` ? @ R . ; & ' " + P & ' " ? @



/ 0

a) - & ' " ~ $ r k I J A B + , 4 5

b) $ | d IC " D ! Y " : 1 S) d w d " e) * C r d "

c) d " [2 O i > w d Y IC " e) * [\ Y E u d " w

4.3.3

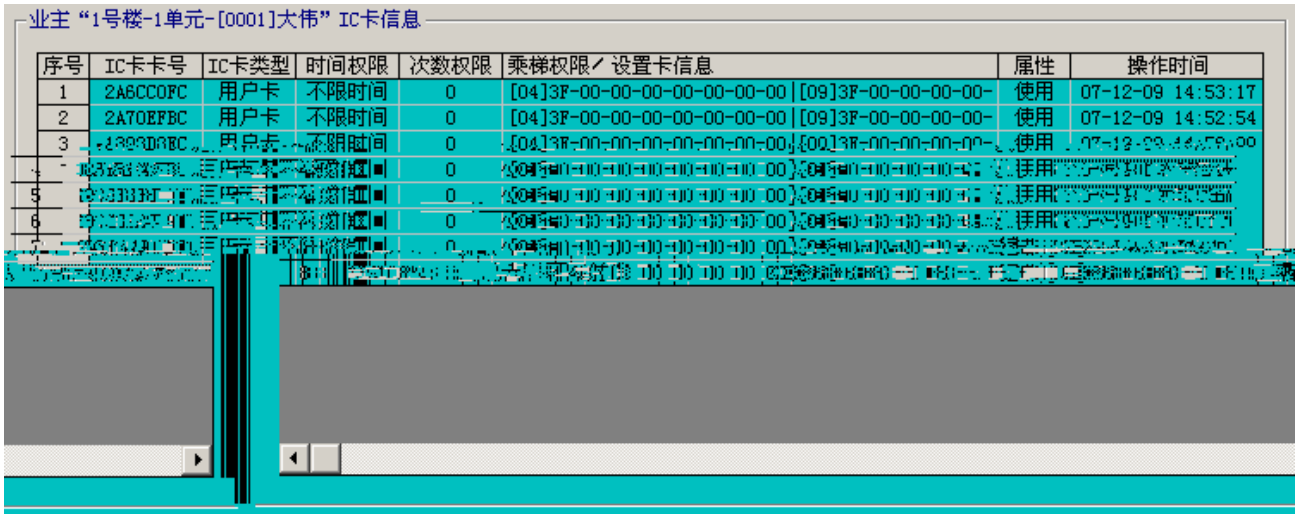
A B d " T U 8] ^ 9 O d , h " ? @ / 0

16 A B IC " , h



? @ R .] ^ T / V I ! I J d " ; , h _ R R] ` d "] ^ ?

@ E . + P] ^ d ; IC "

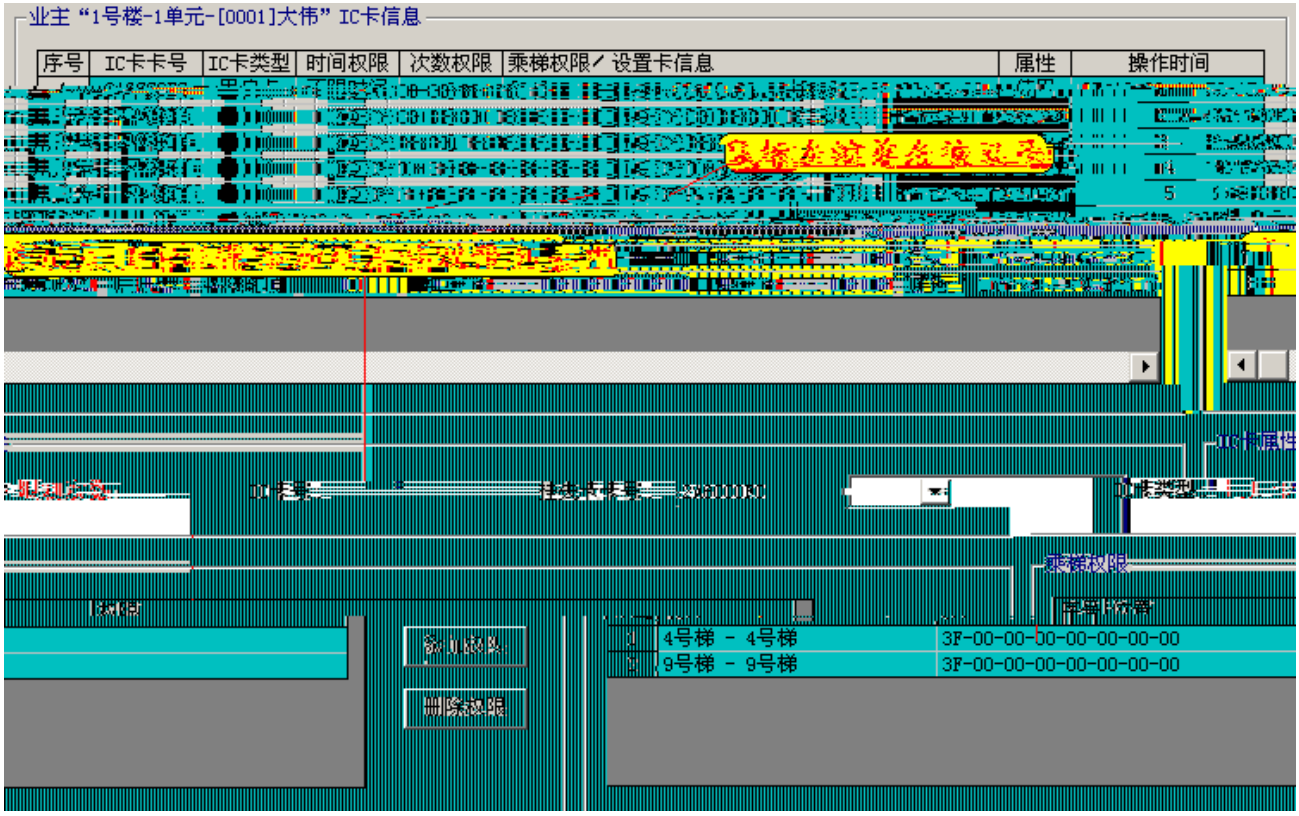


2. _ K !

w % & _ K ! 1 w] ^ IC " T / A B l 7 IC " } m

_ K

a) w] ^ IC " T / A B l 7 IC "

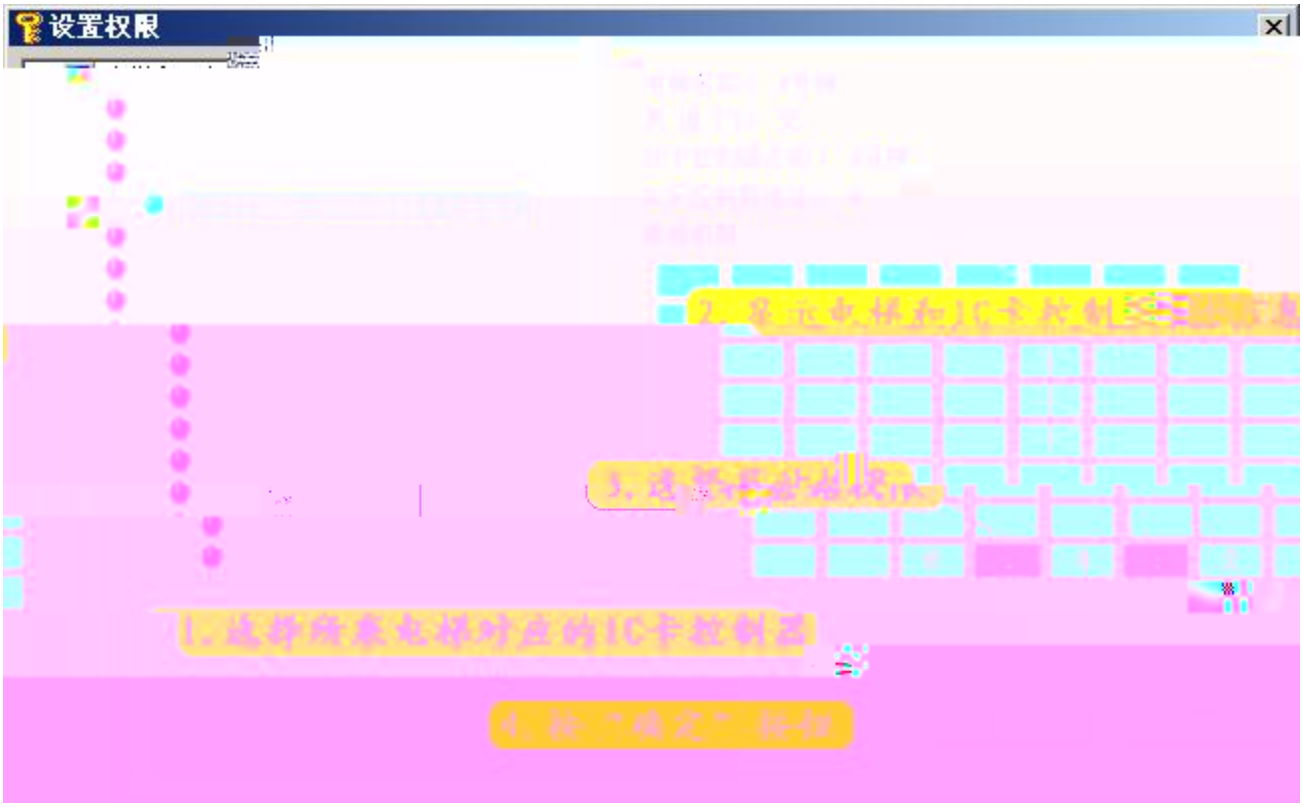


_ R R] ` @ A - s t o s t IC " 8 T ! ! T / V (

> n $ i > 9 : 8 T X Y

b) w d 8 T e) * 8 T

_ R R] ` d 8 T e) * + P 8 T ? @



/ 0 ! T / V A V] ^ ! A B S ; IC " # $: ?

@ E . + P ! N IC " # $: q r _ R R] ` B B ; < =

> N ? > 4 5 + P ? > B + P = > B _ R R] `

d w e) * e # 8 T _ R R] ` d e) * 8 T

c) X Y

_ R R] ` d X Y e) * + P X Y 3 P



A B d e X Y $ z A B d e X Y

- @ X Y t d R G R R e X Y Y R # R + P R R & z # P R e) c

IC " # $: $ "

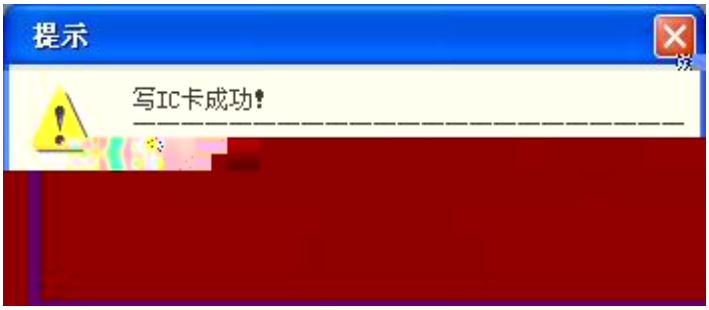
2.d J K " O ;

J K " d O I J ! 4 S ; IC " # $: $ " C * + J K " ; J K

y s D u E v F J K " d " [2 O ; 3 P q r

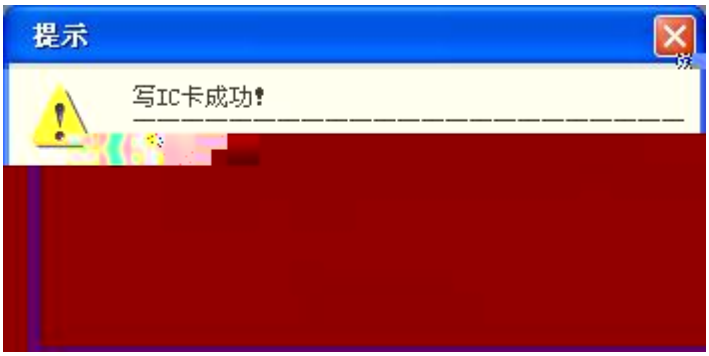
J K % & ;

3 P q r



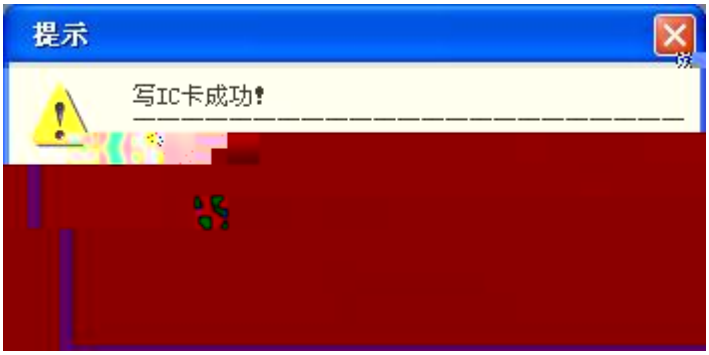
C E F IC "

; 3 P q r



IC "

; 3 P q r



3.d " G V i j 3 P 8 9

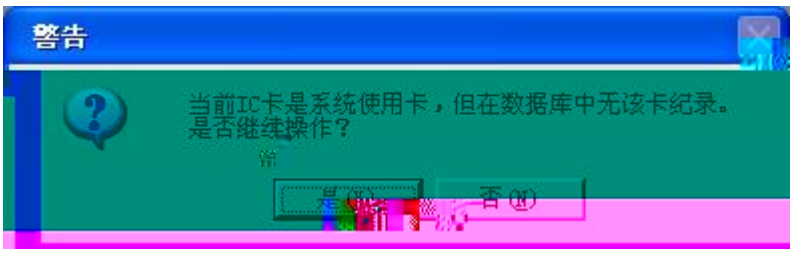
% & + , A J , A G IC

" d " ' % & k + ,

I J { U o p q (, H

G IC " d " I b } p 3

P A B d e 9 : 1 i



d " T U @ J !

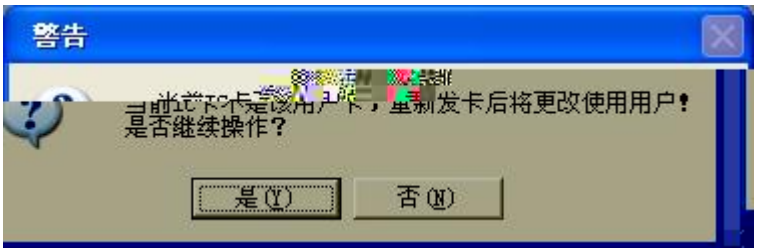
- 2 ` a

! @ a K + ,



I J ! m n T U ? @ U

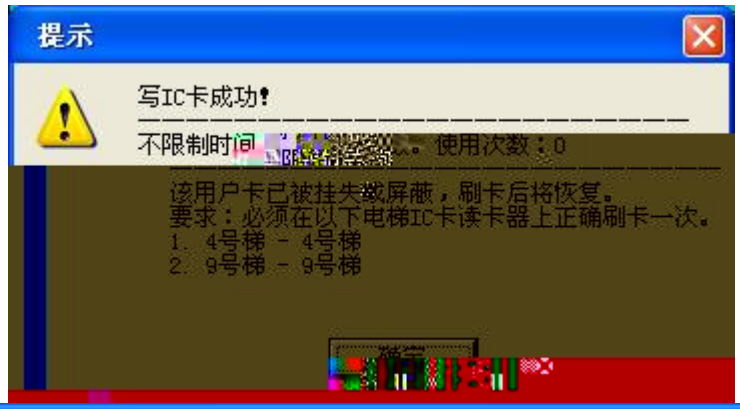
@ A] ^ + , ; IC " } m d) l L] ^ + P q r - ` a IC " , h A B d e o A B d e



" i > w } m d " M Y (+ P q r 9 : O d "



" } m d " d " #) O + P q r ? @) J N ! 4 S ; IC " # $: $ w " A C * "



@ A] ^ + , ; IC " } m d) g] z ! + , + P q r - ` a , h A B d e o A B d e



4.4 缴费

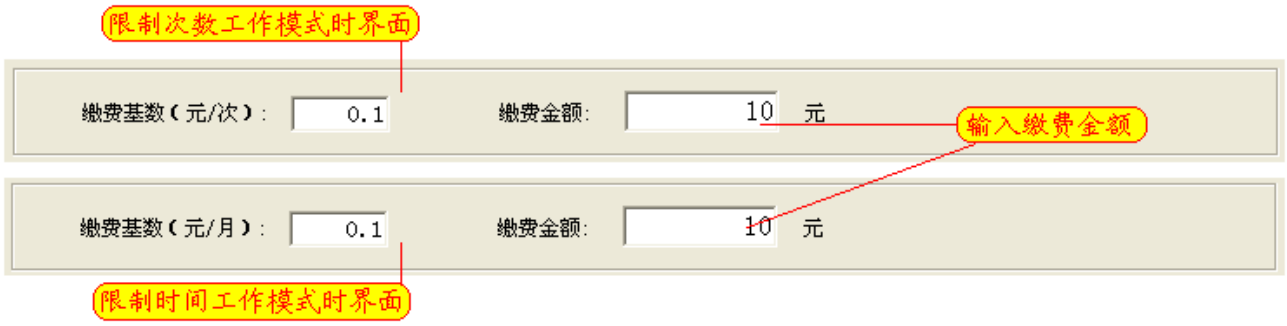
d " T U @ J ! d " O ; + , /

IC "	m d "	O " } m d "
+ ,	00-00-00	O " + , 4 5
+ , o	0	O " P Q + , o @ J P Q



m n / 0

1. m n R S



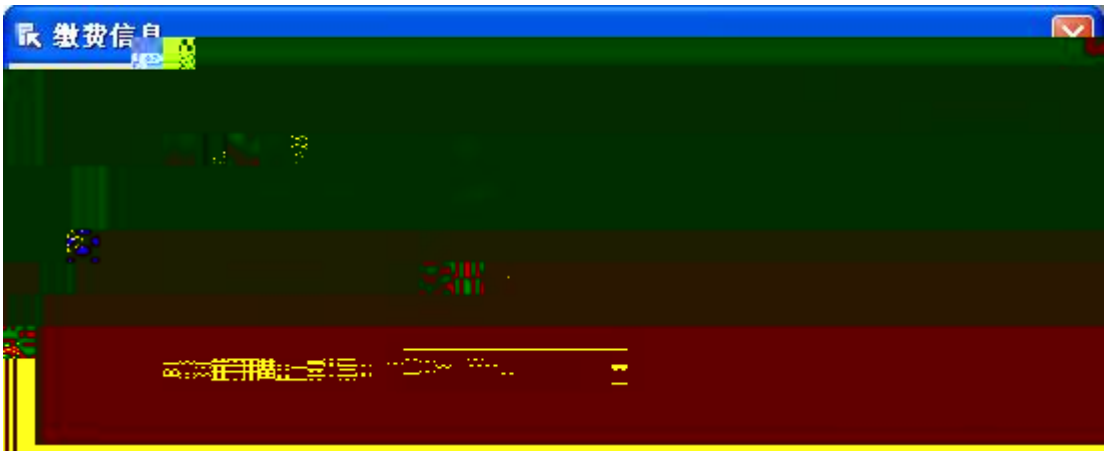
2. $ | m n IC " D ! Y " : 1 S) d w m n e)



$ ~ r k u + , IC " y 4 5 T $ u + ,

? @ - + , 4 5 2 w i > ? @ ` a _ R R ] ` d w

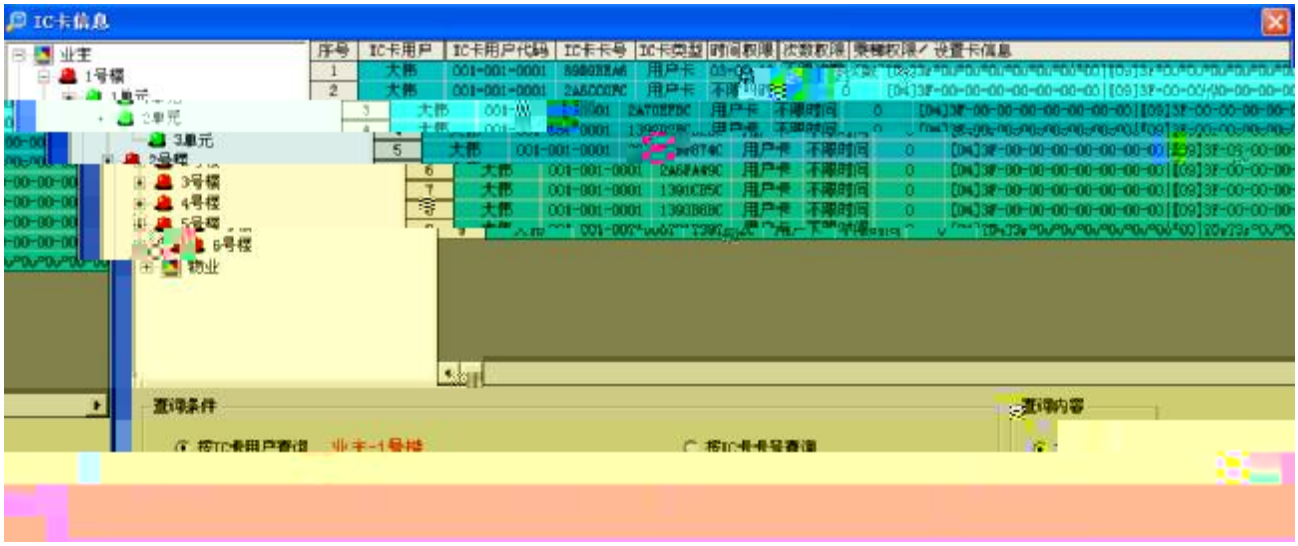
e) * e # m n _ R R] ` d e) * m n



4.5 数据

4.5.1 信息 记 查询

A B d o p T U →IC " q r e O d " q r N d " s t u v ? @



u v / 0

1. A B u v % k

A B) IC " , h u v 按IC卡用户查询 A B) IC " " u v 按IC卡卡号查询

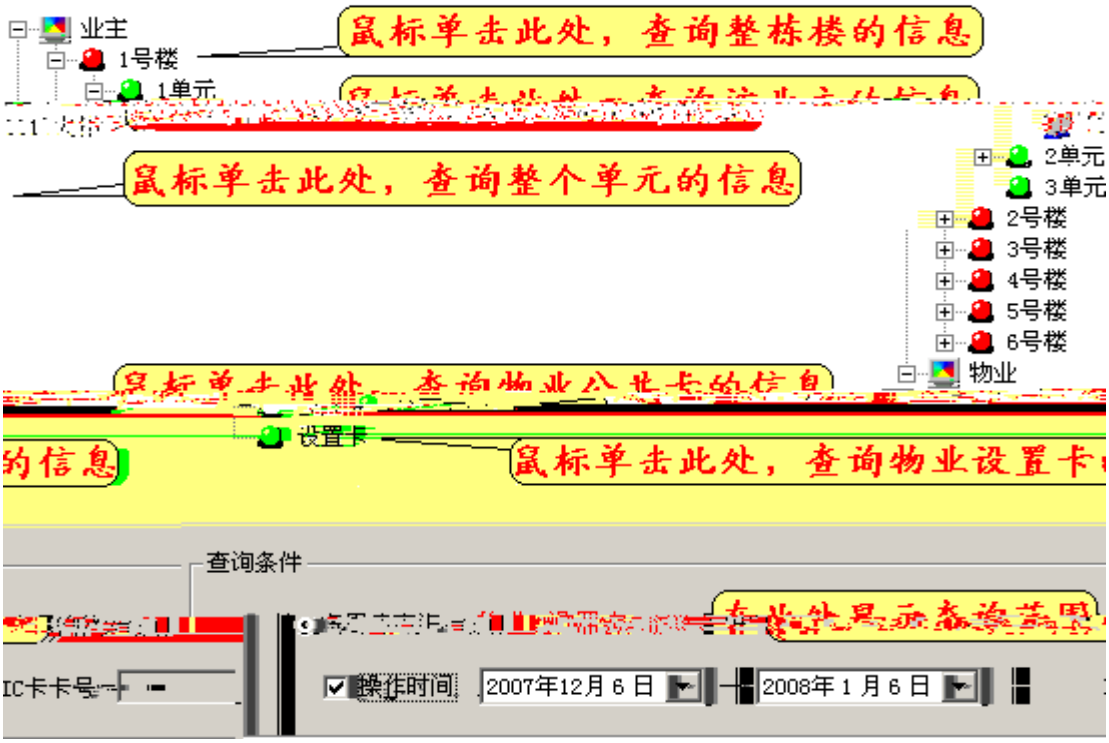
- A B) IC " " u v I J IC " " IC " " - A B)

IC " , h u v I J A B IC " , h N

2. A B IC " , h ( ) IC " , h u v % k)

i > A B A T \ C A] ^ C A h] ^ u v U i > A B J K " &

' " u v % & P



3. A B ( ) IC " , h u v % k)

- A B S A V A 0 操作时间 : A B W X

- 2 A B o 2 A V A 0 操作时间

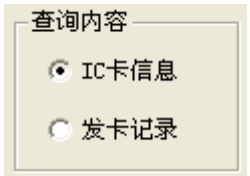
4. u v ; IC " " ( ) IC " " u v % k)

IC " " IC " "



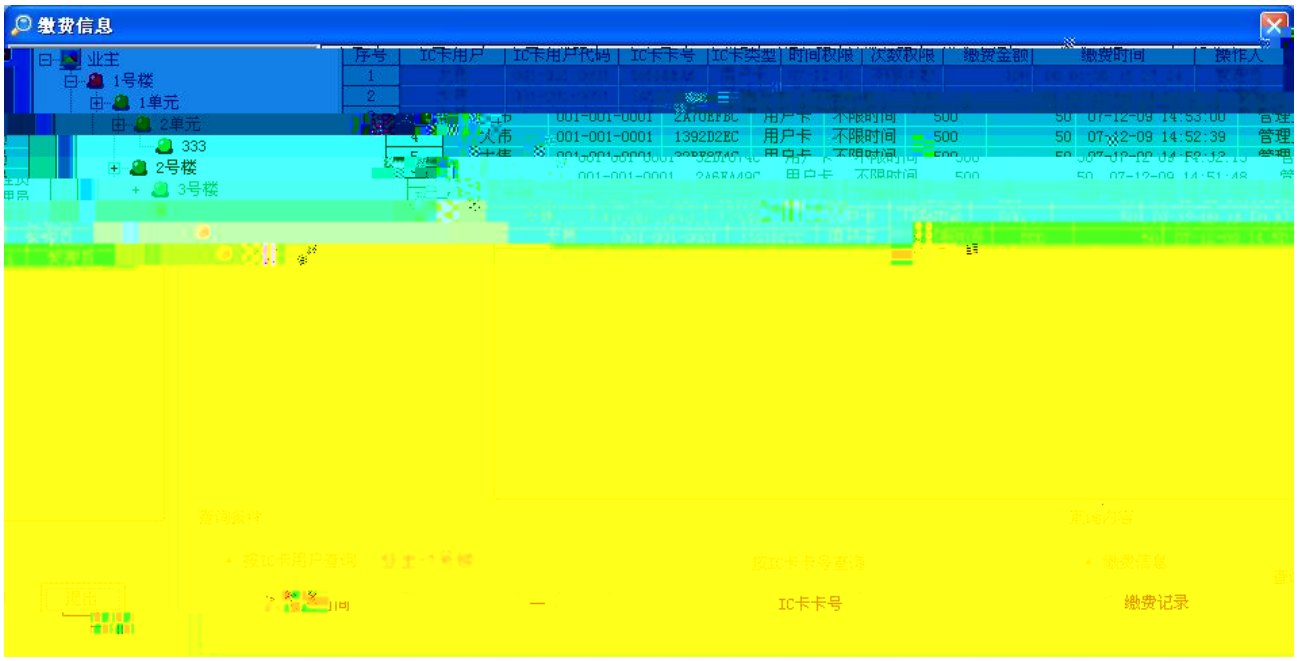
5. A B u v y s

i > A B IC " q r d " s t



6. _ R R] ` d u v e) *

4.5.2 缴费信息 缴费记 查询



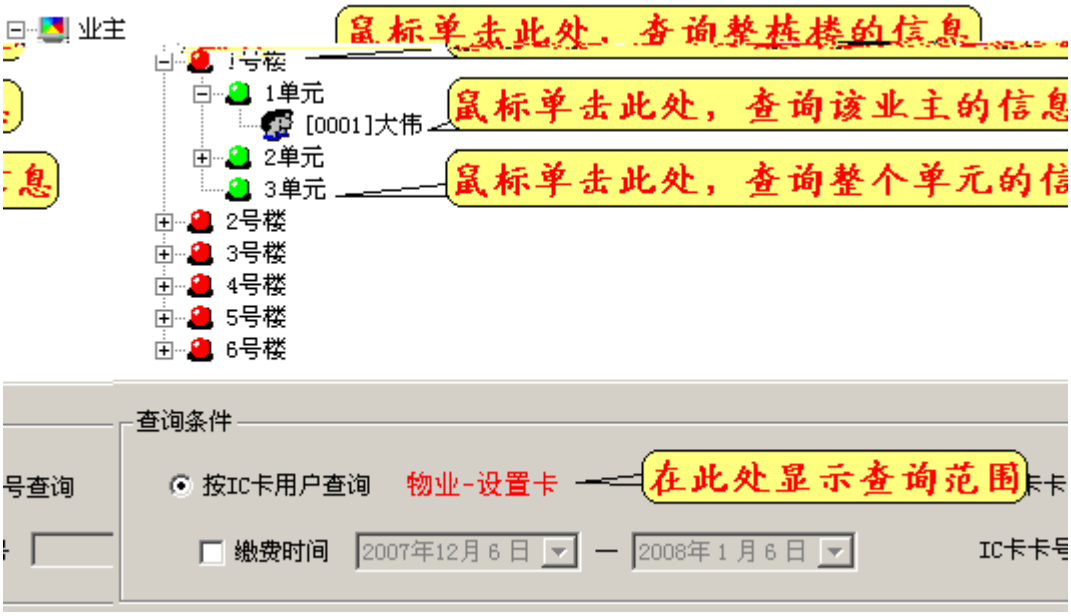
u v / 0

1. A B u v % k

A B) IC " , h u v 按IC卡用户查询 A B) IC " " u v 按IC卡卡号查询 - A B) IC " " u v I J IC " " IC " " - A B) IC " , h u v I J A B IC " , h N m n

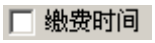
2. A B IC " , h ( ) IC " , h u v % k)

i > A B A T \ C A] ^ C A h] ^ u v U i > A B J K " & ' " u v % & P



3. A B m n ( ) IC " , h u v % k)

- A B m n S A V m n A 0 缴费时间 : A B W X

- 2 A B m n　　o 2 A V m n　　A 0 

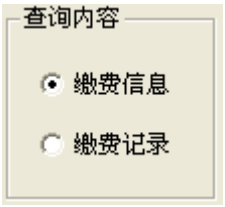
4.　u v ; IC " "　( ) IC " "　u v % k)

IC " "　　IC " "



5. A B u v y s

i > A B m n q r　m n s t



6. _　R R] ` d u v e) *

4.6 通讯

4.6.1IC　　内部信息

A B d w x # $ = IC " # $: y z q r e O　　) * ? @　　,　? @

N @ A J IC " # $: w x i > V !　J IC " # $: y z q r　　% &

(l V d USB/CAN H I J K e v j SJT-CIC-V0 E ' W G .doc 1 X V Y　1)

1. Y + , q r

_ R R] ` 读使用信息) * Y + P IC " # $: ;

" q r

序号	IC卡用户	IC卡用户代码	IC卡卡号	使用时间
1	大伟	001-001-0001	3D5F4534	08-01-08 16:08
2	大伟	001-001-0001	3D5F4534	08-01-08 16:08
3	大伟	001-001-0001	3D603874	08-01-08 16:08
4	大伟	001-001-0001	3D603874	08-01-08 16:02
5	大伟	001-001-0001	3D603874	08-01-08 16:01
6	大伟	001-001-0001	3D5F4534	08-01-08 16:01
7	大伟	001-001-0001	3D5F4534	08-01-08 16:00
8	大伟	001-001-0001	3D603874	08-01-08 16:00
9	大伟	001-001-0001	3D603874	08-01-08 15:56
10	大伟	001-001-0001	3D603874	08-01-08 15:56
11	大伟	001-001-0001	3D603874	08-01-08 15:55
12	大伟	001-001-0001	3D603874	08-01-08 15:55
13	大伟	001-001-0001	3D5F4534	08-01-08 15:55
14	大伟	001-001-0001	3D5F4534	08-01-08 15:55
15	大伟	001-001-0001	3D5F4534	08-01-08 15:41
16	大伟	001-001-0001	3D5F4534	08-01-08 15:41
17	大伟	001-001-0001	3D603874	08-01-08 15:40
18	大伟	001-001-0001	3D603874	08-01-08 15:40
19	大伟	001-001-0001	3D5F4534	08-01-08 15:39
20	大伟	001-001-0001	3D5F4534	08-01-08 15:38
21	大伟	001-001-0001	3D603874	08-01-08 15:38
22	大伟	001-001-0001	3D603874	08-01-08 15:38
23	大伟	001-001-0001	3D603874	08-01-08 15:38

2. Y # $ q r

_ R R] ` 读控制信息) * Y Z [Y IC " # $: ;

% & : + P Y [-



L O Y IC " # $: y ; N E F " q r

序号	IC卡用户	IC卡用户代码	IC卡卡号	属性
1	大伟	001-001-0001	26714D0A	
2	大伟	001-001-0001	26714D0B	
3	大伟	001-001-0001	26714D0C	
4	大伟	001-001-0001	26714D0D	
5	大伟	001-001-0001	26714D0E	
6	大伟	001-001-0001	26714D0F	
7	大伟	001-001-0001	26714D10	
8	大伟	001-001-0001	26714D11	
9	大伟	001-001-0001	26714D12	
10	大伟	001-001-0001	26714D13	
11	大伟	001-001-0001	26714D14	
12	大伟	001-001-0001	26714D15	
13	大伟	001-001-0001	26714D16	
14	大伟	001-001-0001	26714D17	
15	大伟	001-001-0001	26714D1E	

3. Y IC " # $: y z

_ R R] ` 读IC卡控制器内部时间) * Y : + P Y [-



4. IC " # $: y z

_ R R] ` 校正IC卡控制器内部时间) * #) O $ IC "

$: y z J K \ ] / Q A

5. { # $ q r O J

_ R R] ` 清控制信息指针) * 4 S #) O $ # $ q

r O J ^ _

6. { + , q r O J

_ R R] ` 清使用信息指针) * 4 S #) O $ + , q

r O J ^ _

4.6.2 通讯 口

A B d w x # $ = w x 3 { e O J K \ ] / 6 3 {) * ? @



3 J K T U : V u ` ! IC d " : a , ; 4 5 6 { S ; 6 3 {

O _ R R] ` d w e) * e # J K

4.7 退出