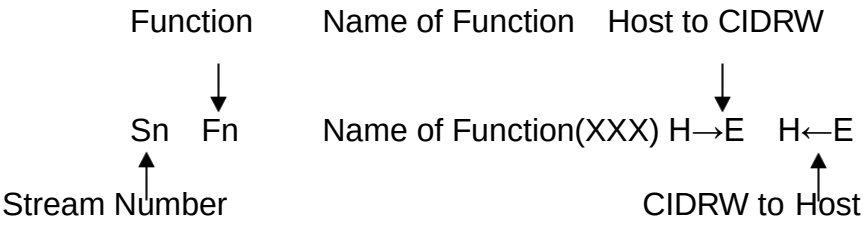
134KHz/125KHz Reader General Message Manual

Version : 1.0.12

I. SECS II Format

I. Function explanation



1.1 S1F1 Are you there request(R) H→E

Data structure：

<Header>

explanation：Are you there ?

S1F2 On Line Data(D) H←E

Data structure：

L,2

<MDLN> =>CIDRW model number

<SOFTREV> =>CIDRW software date

explanation：this message is for asking the CIDRW and get the model number and software version

.

S1F2 example：

S1F2

<L[2]

<A[6] "BR9100"> =>CIDRW model type

<A[4] "V1.0"> =>CIDRW software data

>

1.2 S1F13 Establish Communications Request (CR)H→E

Structure: L,2

1. <MDLN>
2. <SOFTREV>

S1,F14 Establish Communications Request Acknowledge (CRA) H←E

Description: Accept or deny Establish Communications Request (S1,F13). MDLN and SOFTREV are on-line data and are valid only if COMMACK = 0.

Structure: L,2

1. <COMMACK>
2. L,2

1. <MDLN>
2. <SOFTREV>

Exception: The host sends a zero-length list for item 2 to the equipme

1.3 S2F17 Date and Time Request(DTR) H ↔ E

Data structure：

<Header>

Description :

Acknowledge or error IF EAC contains a non-zero error code, the equipment should not change any of the ECIDs specified in S2F15.

S2F18 Date and Time Data(DTD) H ↔ E

Data structure： :

L,1

<TIME> =>YYYYMMDDhhmmss

Description : Actual time data

1.4 S5F1 Alarm Report Send(ERS) H←E

data structure：

L,4

<ALID> =>Alarm ID

<DEVICE ID> =>Device ID

<PORTID> =>Port ID

<ALTX> =>Alarm Text

explanation： This message is sent from RFID Transmitter， during RFID

Alarm trigged, and no reply needed.

S5F1 example

S5F1

<L[4]

<A[2] "01">

<A[1] "0">

<A[1] "1">

<A[14] "RFID READ FAIL">

>.

NOTE :

ALARM ID

Alarm ID	LCD顯示	狀態	備註
01	Outside RFID Fail	左邊RFID Reader Fail	亮燈、鎖機
02	Inside RFID Fail	右RFID Reader Fail	只回傳狀態 不亮燈、 不鎖機
03	Process Timeout	CIM回傳比對正確訊息後，一段時間沒完成轉換動作(Timeout時間可設定)	亮燈、鎖機
04	Tool issue	Tool異常	亮燈、鎖機

PORT ID

PORT ID	Description
0	Inside RFID Fail
1	Outside RFID Fail

1.5 S18F15 Led / LCD control Request(WAR) H→E

data structure：

L3
<TargetID>
<SSCMD> =>’01’
L3
<A MESSAGE> =>Load Port information
<A Led_number> =>1:Green 2:Red 3:Blue 4:buzzer 5:LCD
(0=>off 1=>on 2=>flash)
<A Sconds> =>’1-FE’-(01-254) seconds,
(seconds for LED)

explanation：this message is the Host computer ask to change the led state。

S18F15Write Attribute Acknowledge(WAA) H→E

data structure：

L,3
<TargetID>
<SSACK>
L,s
<STATUS1>
…
<STATUSn>

S18F15 example：

:S18F15 W
<L[3]
<A[2] "01">
<A[2] "01">
<L[3]
<A[32] "xxxxxxxxxxxxxxxxlllllllllllxyz"> =>32字元
<A[5] "11103" =>依序為綠燈、紅燈、藍燈、蜂鳴器、LCD行數，
0:關 1:開 2:閃
LCD為1:字串寫入至第一行 2: 字串寫入至第兩行
3:前16個字寫入至第一行，後16個字寫入至第二行
<A[10]"010305> =>依序為綠燈、紅燈、藍燈
亮燈秒數：’01-FE’-(1-254) seconds
>
>
.>
>.

藍燈、蜂鳴器為預留功能，目前無使用

S18F16 example：

Data Structure :

L,1

<ACK>

NOTE：ACK

ACK	Description
00	Success

1.6 S18F71 Lot In Event Report Send(ERS) H←E

data structure：

L,4
<TargetID>
<SSACK>
<CEID> =>message ID
L,n
<DVNAME1> =>message name
<DVVAL1> =>message value
…
<DVNAMEn>
<DVVALn>

explanation：This message send from CIDRW，during RemoteI/Obutton21 trigged (signal to ground)， is active signal and no reply needed.

S18F71 example

S18F71
<L[4]
<A[2] "03">
<A[2] "NO">
<A[1] "1">
<L[4]
<A[12] "CassetteIDData">
<A[16] "X2R19H412B1"> => read ok then reply the data
<A[12] "BarCodeData">
<A[16] "GAW0681"> => read ok then reply the data
>
>
.

NOTE :

Target ID

Target ID	Description
0	Inside RFID Reader、Barcode
1	Outside RFID Reader、Barcode

CEID

CEID	Description
0	Load
1	Unload

S18F72

Data Structure :

<B,ACK>

S18F72 example

S18F72

<B[1]”00”>

NOTE：ACK

ACK	Description	Remark
00	Success	比對成功
01	Fail	比對錯誤

1.7 S18F81 Check In Event Report Send(ERS) H←E

data structure：

```
L,4
    <TargetID>
    <SSACK>
    <CEID>                  =>message ID
    L,n
        <DVNAME1>           =>message name
        <DVVAL1>            =>message value
        …
        <DVNAMEn>
        <DVVALn>
```

explanation：This message send from CIDRW，during RemoteI/Obutton21 trigged (signal to ground)， is active signal and no reply needed.

S18F81 example

```
S18F81
<L[4]
    <A[2] "03">
    <A[2] "NO">
    <A[1] "1">
    <L[6]
        <A[12] "TrackInData">
        <A[16] "X2R19H412B1">          => read ok then reply the data
        <A[12] "TrackOutData">
        <A[16] "X2R12F123A2">          => read ok then reply the data
        <A[12] "BarCodeData">
        <A[16] "GAW0681">              => read ok then reply the data
    >
>
.
```

S18F82

Data Structure :

```
<B,ACK>
```

S18F72 example

```
S18F82
<B[1]”00”>
```

NOTE：ACK

ACK	Description
00	Success

II. Optional HSMS SECSII

Message

This Section describes SECS II messages that are dedicated for special request. **NOT ALL SYSTEM CAN SEND OR RECEIVE THESE MESSAGES!** Please contact your vendor.

I. Optional SECS II Stream Function

List

1.1 S2F21 Remote Command Send(RCS) H→E

Data Structure :
<A,RCMD>

S2F21 example

S2F21
<A[1]"A">

Description : Similar to pressing buttons on the front panel or causes some equipment activity to commence or to cease.

NOTE：RCMD

RCMD	Description	Remark
A	Auto Track	紅燈、閃紅燈，開始鍵鎖定
M	Manual Track	開始鍵不鎖定

S2F22 Remote Command Acknowledge(RCA) H←E

Data Structure :
<B,CMDA>

S2F22 example

S2F22
<B[1]”00”>

Description : Acknowledge or error

NOTE：CMDA

CMDA	Description
00	Action

1.2 S18F9 Read Material ID Request(RMID) H→E

data structure：

<TargetID>

explanation： Host computer request for MID from CIDRW, The MID data is read from pag1 and page2 of Tag，The total length of MID is 16bytes.

S18F10 Material ID Data(MID) H←E

data structure：

L,4

<TargetID>
<SSACK>
<MID> =>reply the value of read MID data，
when read fail reply empty alphabetic string。
L,4
<STATUS1>
…
<STATUS4>

explanation：CIDRW reply the Host computeS18F9 command and reply the data of MID。

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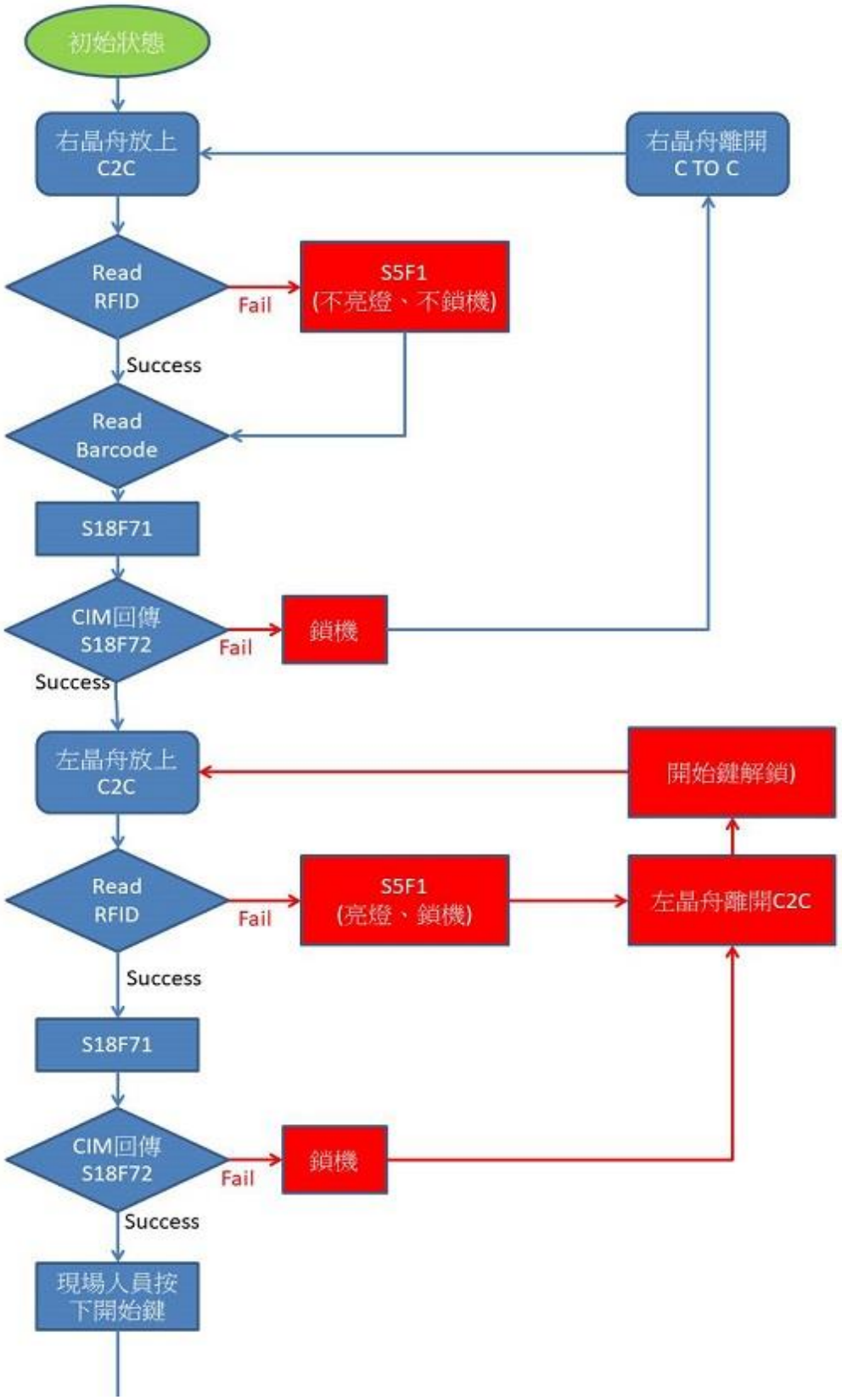
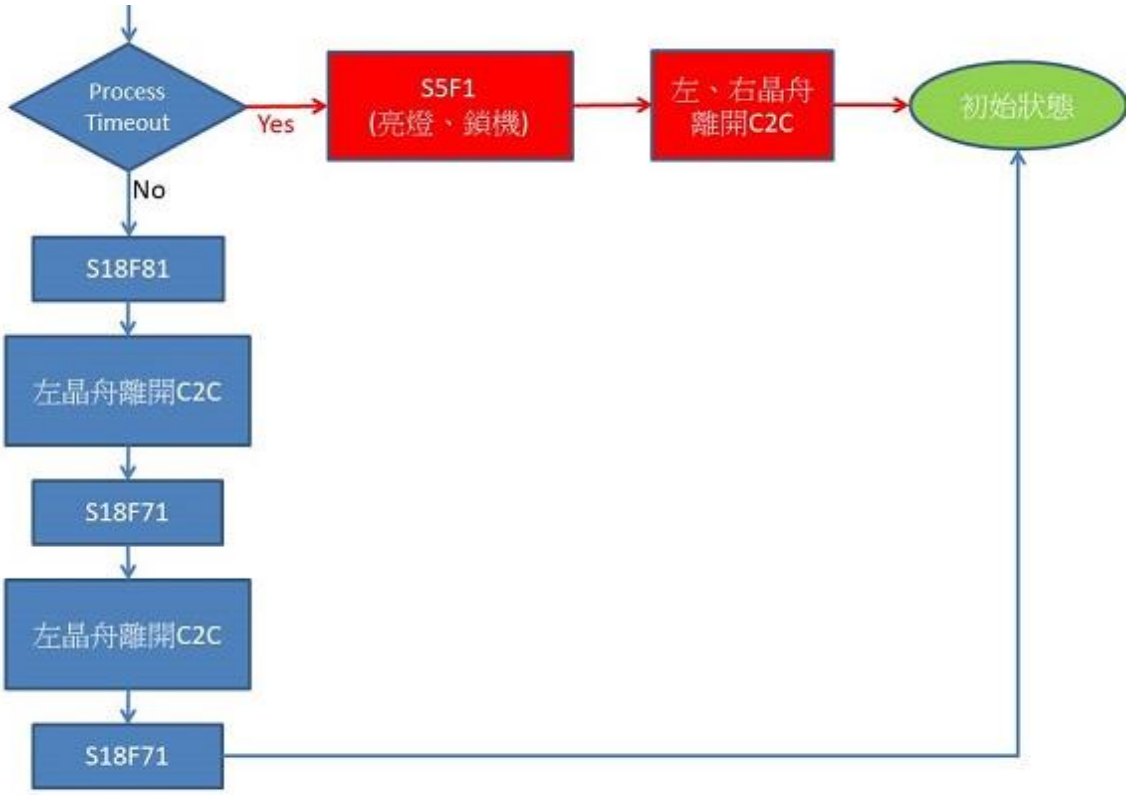
S18F10 example：

```
S18F10
<L[4]
    <A[2] "03">
    <A[2] "NO">
    <A[16] "1234567890ABCDEF"> =>reply the value of 16byte data.
    <L[4]
        <A[2] "NE">
        <A[1] "0">
        <A[4] "IDLE">
        <A[4] "IDLE">
    >
>
.
```

附件一、


初始狀態
右晶舟放上
C2C
右晶舟離開
C TO C
Read
RFID
Fail
S5F1
(不亮燈、不鎖機)
Success
Read
Barcode
S18F71
CIM回傳
S18F72
Fail
鎖機
Success
左晶舟放上
C2C
開始鍵解鎖)
Read
RFID
Fail
S5F1
(亮燈、鎖機)
左晶舟離開C2C
Success
S18F71
CIM回傳
S18F72
Fail
鎖機
Success
現場人員按
下開始鍵


Process Timeout
Yes
S5F1 (亮燈、鎖機)
左、右晶舟離開C2C
初始狀態
No
S18F81
左晶舟離開C2C
S18F71
左晶舟離開C2C
S18F71