

UHF Communication Protocol the logic of DLL call

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● The logic of reader connect call

1、 create connecting handle struct

```
struct hComSocket
{
    HANDLE hCom;
    SOCKET sockClient;
};

hComSocket CS;

HANDLE HCom;

SOCKET HSockClient;
```

2、 sample of COMM or TCP/IP connecting

a. Cerate connect

```
Socket_ConnectSocket(&HSockClient, "192.168.1.120", 100);

CS.sockClient = NULL;

HSockClient = HSockClient;
```

```
Serial_OpenSeries(&HCom, "COM3", 115200);
```

```
CS. hCom = HCom;
```

```
HSocketClient = 0;
```

b. close connect

```
Socket_CloseSocket(CS. sockClient);
```

or

```
Serial_CloseSeries(CS. hCom);
```

● **The logic of reader config call (see details in sample code)**

1. Get hardware version

a. Config_GetLocatorVersion

2. Set baud rate

a. Config_SetReaderBaud

3. Set/query antenna power

a. Config_SetRfPower

b. Config_GetRfPower

4. Set/query frequency point parameter

a. Config_SetFreqPoint

b. Config_GetFreqPoint

5. Set/query antenna working statue (this function for UHF device only)

a. Config_SetAntenna

- b. Config_GetAntenna

6. Set/ query reader carrier offset tactics

- a. Config_SetSingleFastTagMode
- b. Config_GetSingleFastTagMode

7. Set/query reader IO status

- a. Config_SetOutPort
- b. Config_GetInPort

8. Set/query reader TCP/IP parameter

- a. Config_SetIntrnetAccess
- b. Config_GetIntrnetAccess

9. Set/query reader time

- a. Config_SetReaderTime
- b. Config_GetReaderTime

10. Set/query reader tset mode

- a. Config_SetTestMode

11. Reaset reader

- a. Config_ResetReader

● **The logic of reader/tag operat call (see details in sample code)**

1、 The logic of tagdiscern call

- a. Activity_TagDiscern
- b. Activity_GetTagData

2、 The logic of tag reader call

- a. Activity_TagRead

3、 The logic of tag write call

- a. Activity_TagWrite

4、 The logic of tg control call

- a. Activity_TagControl

5、 The logic of reader RF close call

- a. Activity_CloseRF

6、The logic of reader sensitivity query/ set call

- a. Activty_SetSensitivity
- b. Activty_GetSensitivity

7、The logic of reader status call

- a. Activty_GetReaderStatus

●The logic of reader auxiliary operation call（see details in sample code）

1、Set reader flash via address

- a. Parameter_SetReader

2、Query reader flash via address

- a. Parameter_GetReader

//

//remark: flash address parameter configuration comparison table

//Addr（HEX）	Len（byte）	Parameter meaning
//10	10	device serial no
//1B	1	LED and buzzer
//A3	1	reader address coding
//A0	4	reader IP
//A4	4	subnet mask
//A8	4	gate way
//AC	2	port
//70	1	reader sensitivity
//90	1	work mode（the first byte is open timer mode, the second byte is open trigger mode）

//92	1	trigger valid time (1~180 s)
//93	1	tag filter (0 unavailable 1 available)
////////////////////////////////////		

