深圳科陆物联信息技术有限公司
Shenzhen Clou IoT Technologies Co., Ltd
RFID | IoT | System Integration| Customization
RFID Application Pain Points

1. Software team are not familiar with RFID technology, development need long time.
2. Software team not familiar with RFID device maintenance
3. Need multiple devices in same projects, programming working much more than based on device SDK
4. Multi-antenna working mode with collision will influence performance
5. Can not get real time condition of all device working state
6. Multi-language application development demands, but only English demo software
What is our solution?

You care your system, we care you
Mid-ware helps to manage hundreds of reader in same system
What is RFID Middleware

* It is an intermediate program to achieve data transmission, filtering, data format conversion between RFID hardware and application system.

* It provides data inflow / outflow services between enterprise applications and RFID information collection system.
Compare with traditional RFID application

- **Custom Development**
  - RFID device <-> API -> custom software <-> business system (end user)
  - Low development efficiency, high maintenance costs, and difficult to cope with future changes

- **Use RFID middleware**
  - RFID device <-> middleware <-> business system (end user)
  - Significantly reduce the workload of research and development, improve development efficiency, but also will significantly reduce the overall system maintenance difficulties
How it works?
What is advantages?

**Intelligent:**
connect RFID device and application system

**Real-time:**
control all devices state by manufacturer / end users

**Smart:**
Not need device SDK program

**Smart:**
only offer the data what you need
Features

- Support all RFID reader
- Support multi-readers management
- Supports clock synchronization
- Supports tag filtering
- Support WebService interface remote control
- Supports message middleware to transfer tag data
- Configure the client-side independently to support batch configuration
- Independent authentication mode, anti-attack
Operating environment

- Operating system: Windows Server 2008 R2 and above
- Database: SQL Server 2008 R2
- Run the framework: .Net Framework 4.0
- MQ: ActiveMQ 5.13.3 and above
What is the our Solution?

- Server authorization is based on network card binding
- Dedicated SN acquisition tool
- Client authorization
Product documentation instructions

- Middleware installation deployment refers to "RFID Middleware Deployment Manual"
- Middleware management refers to "RFID Middleware Operation Manual"
- C# environment business development, you can access and parse messages through the RFID Middleware API handbook
- Other environmental business development needs through the "RFID middleware Web interface specification", based on WebService interface development
- RFID Readers subscribe to the "RFID middleware JMS interface specification", write xml configuration file
Why Clou IOT

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A. 21 year National-lever High-tech group with 1.2 billion capital
B. all suppliers request not less than 3 million/good credit in government
C. public list company, 3100 employees, 800 R&D

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A. 14 year RFID technologies R&D
B. Biggest RFID team in China
C. ISO9001/14001 certificated
D. Full serials of UHF RFID reader/handheld

Only us
A. Not only Hardware But mid-ware platform
B. Full solution offering
C. Intelligent RFID device Will be coming soon
D. Bring us to new times of IOT

Qualified
A. BMW / BYD / Huawei certificated RFID supplier
B. At least 10 countries government project certificated
C. CE FCC CCC certificated
D. Qualified by Alibaba group and Germany TUV
Real cases – WMC2017 Huawei Booth

Visitors Big Data Collection
200 sets RFID devices
1 set Middleware
Real cases – BMW manufacturing management

C4/C8+B7 reader
+5A+5C antenna
500sets RFID devices
2set Middleware
Interfaces examples
For more information,
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Thank you!