



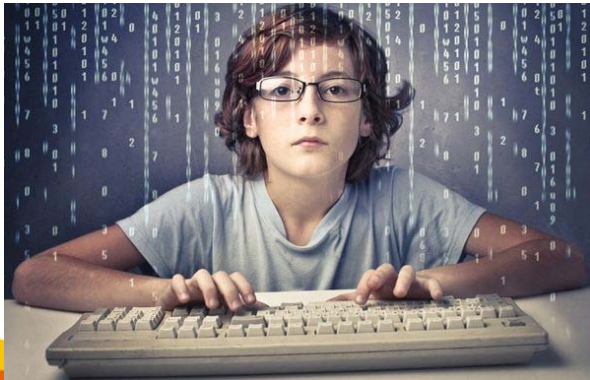
深圳科陆物联信息技术有限公司

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?



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

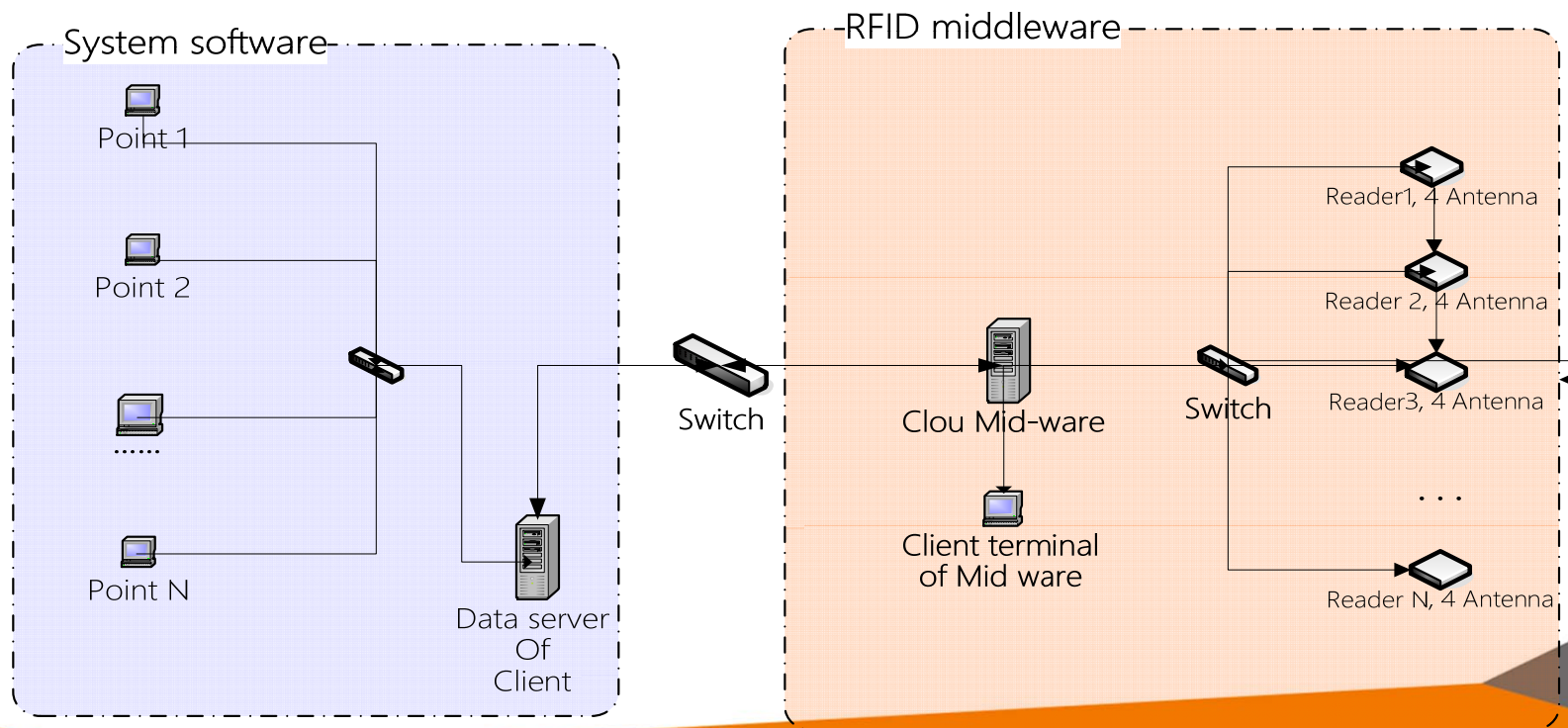
➤ Use RFID middleware

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?

Topological Graph





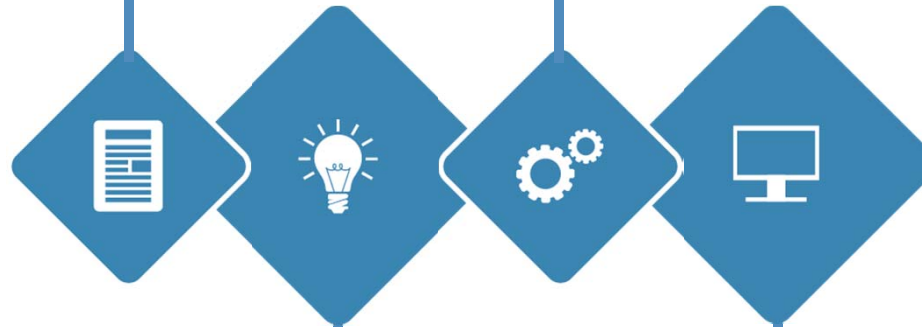
What is advantages?

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 Clou 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

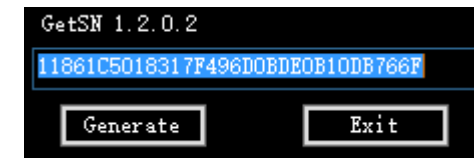
- Operating system: Windows Server 2008 R2 and above
- Database: SQL Server 2008 R2
- Run the framework: .Net Framework 4.0
- MQ: ActiveMQ 5.13.3 and above





What is the our Solution?

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



系统运行天数: 0.0

授权起始: 2017-02-14

授权截止: 2020-12-31

添加授权

移除授权

		别名	授权码
1		localhost	16CB6A01C5C60D66AD079C9CB834248D



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

21

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

14

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

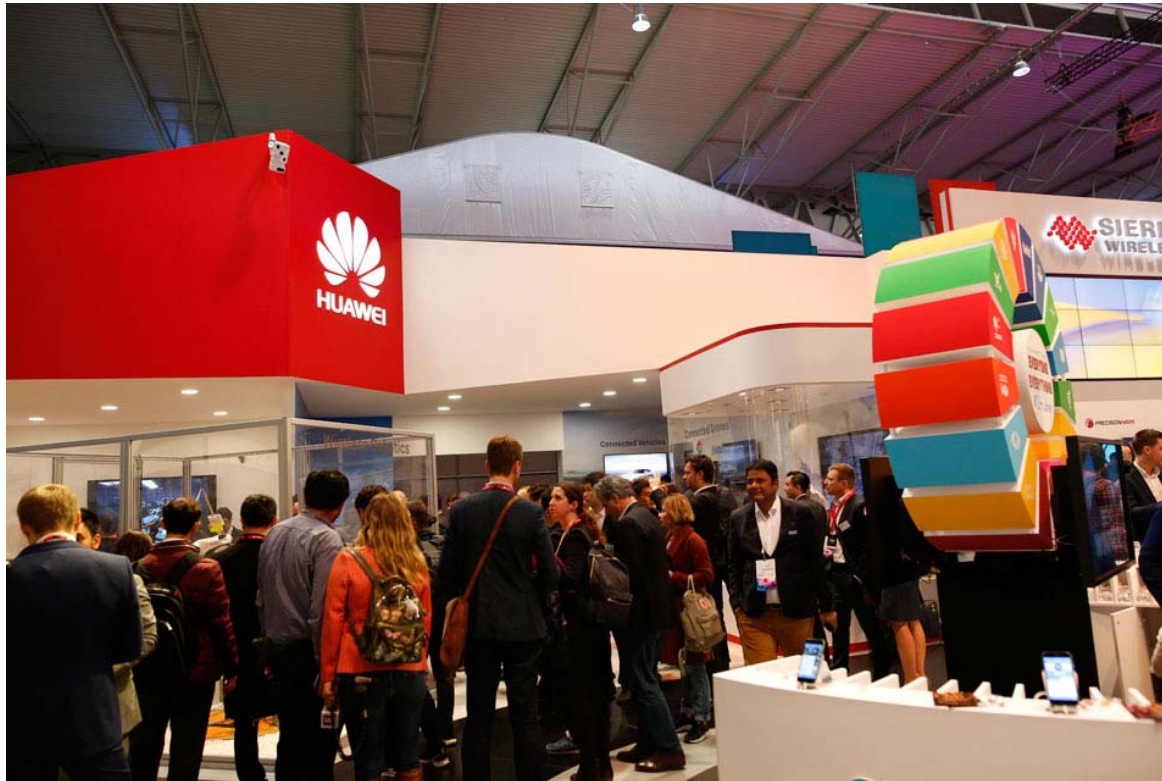
Only us

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
E, more than 50 related patents in this area

Qualified

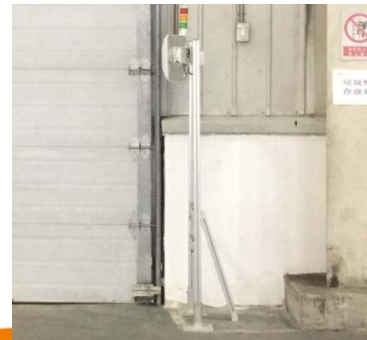
A, BMW /BYD / Huawei certificated RFID supplier
B, At least 10 countries government project certificated
C, CE FCC CCC certificated
D, Qualified by Alibaba group and Germany TUV

Real cases – MWC2017 Huawei Booth



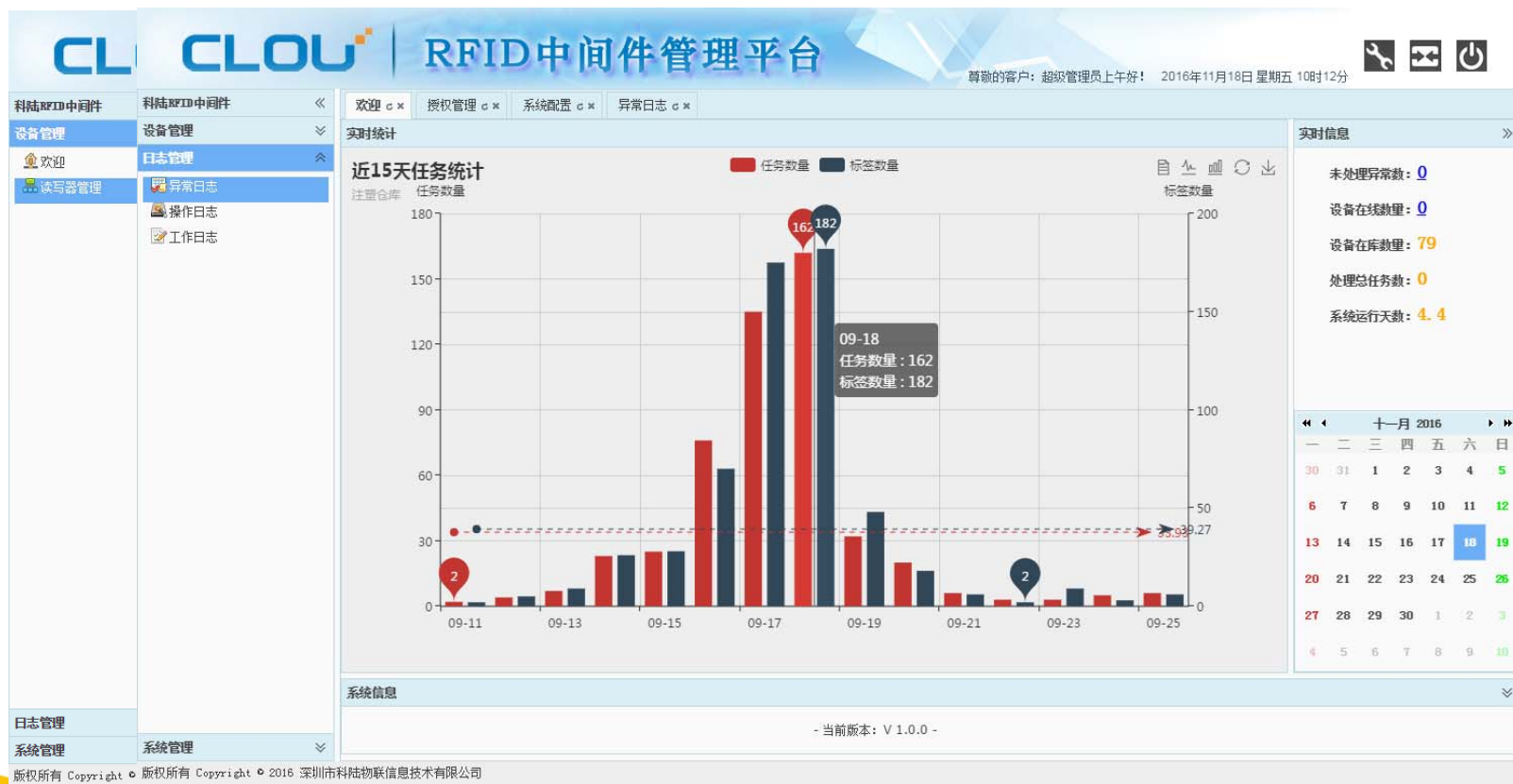
Visitors Big Data Collection
200sets RFID devices
1set Middleware

Real cases – BMW manufacturing management



C4/C8+B7 reader
+5A+5C antenna
500sets RFID devices
2set Middleware

Interfaces examples





Q&A

- Q: What kind of application need a RFID middleware?

A: When you need many RFID readers in same project. And cloud server application system .

- Q: How many RFID readers it could manage?

A: 10-200 readers supportable in one system

- Q: How much it cost?

A: Regular we will think cost based on 2 year license. And after 2 year only need 70% each license.

- Q: Any discount ?

A: Yes, of course, depends on device quantity, pls ask your sales for it.

- Q: It is possible free provisional license to test?

A: Yes, long term partner will test free license and max half year free and special discount

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Thank you!

