ORBITA C Locking System Interface Specification

V1.0

1、**Introduction**

This interface supports Ultralight、Mifare one(S50) card provided by Orbita.

2、**System Compatibility**

Windows xp   (.net framework3.5 sp1 is required)
Windows Server2003   (.net framework3.5 sp1 is required)
Windows Server 2008   (.net framework3.5 sp1 is required)
Windows Vista   (.net framework3.5 sp1 is required)
Windows 7

Support 32/64 bit operating system.

3、**Integrated mode**
Based on the TCP/IP Socket communication, PMS runs as the server.

4、**Protocol Definitions**

4.1   [STX]: message start ;   [ETX]: message end;   Messages are separated by "|".

4.2 **Message Format**

Transmitted Message = [STX]Message-body[ETX]

Each transmitted message starts with [STX] and ends with [ETX]

Message body = CommandData

The message body itself starts with a message type(message command) (see below) followed by the needed data items, each separated by "|".

Data = |data-item|data-item|…

The data-items consist of a two-character data type (Token) and the data itself (Value).
Data-item = TokenValue.
Token = 2 Characters.
Value = Information represented by this token.

The value can have any length unless started differently.

5、Key Services

5.1 Key Request

Token	Description	Format
KR	Key request	
WS	Workstation	
KC	Key coder	
RN	Room number	Max 4 characters, e.g. 102 or 0102, means floor 1 or 01 ; room 02.
KT	Key count	The default value is 1.
GN	Guest name	
AD	Arrival date	yyMMdd e.g. 130729 means 20130729
DD	Departure date	yyMMdd e.g. 130729 means 20130729
CT	Check-out time	HHmmss e.g. 120101 means 12:01:01 Type of Check-out is "From PMS", It is valid.

5.2 Key Answer

Token	Description	
KA	Key answer	
KC	Key coder	
ASOK/ASRY	Answer status	Success ASOK , otherwise ASRY.

Example Check-in/check-out

Key request(**KR**) from workstation(**WS**)1 for key coder(**KC**)K1, for (**KT**) 1 new key for Room(**RN**)101,Guest name(**GN**) Mr Zhang, arrival date(**AD**) 19 July 2013, departure date(**DD**) 30 July 2013.

PMS ->   [STX]KR|WS1|KCK1|RN101|KT1|GNMr Zhang|AD130719|DD130730[ETX]

Response (**KA**) from key coder(**KC**)K1, answer status(**AS**)OK.

<-   [STX]KA|KCK1|ASOK[ETX]