

# **AIS HOTEL DLL API**

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# Table of Contents

File Index.....	5
File List.....	5
File Documentation.....	5
ais_hotel/include/ais_hotel.h File Reference.....	5
Enumerations.....	5
Functions.....	5
Typedef Documentation.....	6
typedef char* cstr.....	6
Enumeration Type Documentation.....	6
enum e_card_action.....	6
Function Documentation.....	6
DL_API DL_STATUS AIS_Hotel_CommunicationOpen (void ).....	6
Returns:.....	6
See Also:.....	6
DL_API DL_STATUS AIS_Hotel_CommunicationClose (void ).....	6
Returns:.....	6
See Also:.....	7
DL_API DL_STATUS AIS_Hotel_GetStatus (int reader_id, int * is_power_on, int * unreaded_rte, unsigned char status_data[5]).....	7
Parameters:.....	7
Returns:.....	7
See Also:.....	7
DL_API DL_STATUS AIS_Hotel_TimeGet (int reader_id, int * tm_year, int * tm_mon, int * tm_mday, int * tm_hour, int * tm_min, int * tm_sec).....	7
Parameters:.....	7
Returns:.....	7
See Also:.....	7
DL_API DL_STATUS AIS_Hotel_TimeSet (int reader_id, const char password[], int tm_year, int tm_mon, int tm_mday, int tm_hour, int tm_min, int tm_sec).....	7
Parameters:.....	7
Returns:.....	7
See Also:.....	7
DL_API DL_STATUS AIS_Hotel_CardBlock (int reader_id, const char password[], int card_sn).....	8
Parameters:.....	8
Returns:.....	8
See Also:.....	8
DL_API DL_STATUS AIS_Hotel_CardUnblock (int reader_id, const char password[], int card_sn).....	8
Parameters:.....	8
Returns:.....	8
See Also:.....	8
DL_API DL_STATUS AIS_Hotel_CardUnblockAll (int reader_id, const char	

password[].....	8
Parameters:.....	8
Returns:.....	8
See Also:.....	8
DL_API DL_STATUS AIS_Hotel_GetLastRTE (int reader_id, int * new_log, int * action, int * card_id, int * system_id, int * tm_year, int * tm_mon, int * tm_mday, int * tm_hour, int * tm_min, int * tm_sec).....	8
Parameters:.....	8
Returns:.....	9
DL_API const cstr AIS_GetDLLVersion (void ).....	9
Returns:.....	9
DL_API cstr dbg_status2str (DL_STATUS status).....	9
Parameters:.....	9
Returns:.....	9
DL_API cstr dbg_action2str (e_card_action action).....	9
Parameters:.....	9
Returns:.....	9
ais_hotel/include/dl_status.h File Reference.....	9
Enumeration Type Documentation.....	10
enum DL_STATUS.....	10
Index.....	13

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# File Index

## File List

Here is a list of all files with brief descriptions:

`ais_hotel/include/ais_hotel.h` .....Error: Reference source not found  
`ais_hotel/include/dl_status.h` .....Error: Reference source not found

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# File Documentation

## ais\_hotel/include/ais\_hotel.h File Reference

Typedefs

typedef char \* cstr

*type of pointer to string*

## Enumerations

```
enum e_card_action { ACTION_CARD_FOREIGN = 0x00, ACTION_CARD_DISCARDED = 0x20,  
ACTION_CARD_HACKED = 0x40, ACTION_CARD_BAD_DATA = 0x50,  
ACTION_CARD_NO_DATA = 0x60, ACTION_CARD_UNLOCKED = 0x80,  
ACTION_CARD_UNLOCKED_1 = 0x81, ACTION_CARD_UNLOCKED_2 = 0x82,  
ACTION_CARD_UNLOCKED_3 = 0x83, ACTION_CARD_UNLOCKED_4 = 0x84,  
ACTION_CARD_UNLOCKED_5 = 0x85, ACTION_CARD_UNLOCKED_6 = 0x86,  
ACTION_CARD_UNLOCKED_7 = 0x87 }
```

## Functions

DL\_API DL\_STATUS AIS\_Hotel\_CommunicationOpen (void)

DL\_API DL\_STATUS AIS\_Hotel\_CommunicationClose (void)

DL\_API DL\_STATUS AIS\_Hotel\_GetStatus (int reader\_id, int \*is\_power\_on, int \*unreaded\_rte,  
unsigned char status\_data[5])

DL\_API DL\_STATUS AIS\_Hotel\_TimeGet (int reader\_id, int \*tm\_year, int \*tm\_mon, int \*tm\_mday, int  
\*tm\_hour, int \*tm\_min, int \*tm\_sec)

DL\_API DL\_STATUS AIS\_Hotel\_TimeSet (int reader\_id, const char password[], int tm\_year, int  
tm\_mon, int tm\_mday, int tm\_hour, int tm\_min, int tm\_sec)

DL\_API DL\_STATUS AIS\_Hotel\_CardBlock (int reader\_id, const char password[], int card\_sn)

DL\_API DL\_STATUS AIS\_Hotel\_CardUnblock (int reader\_id, const char password[], int card\_sn)

DL\_API DL\_STATUS AIS\_Hotel\_CardUnblockAll (int reader\_id, const char password[])

DL\_API DL\_STATUS AIS\_Hotel\_GetLastRTE (int reader\_id, int \*new\_log, int \*action, int \*card\_id, int  
\*system\_id, int \*tm\_year, int \*tm\_mon, int \*tm\_mday, int \*tm\_hour, int \*tm\_min, int \*tm\_sec)

DL\_API const cstr AIS\_GetDLLVersion (void)

DL\_API cstr dbg\_status2str (DL\_STATUS status)

DL\_API cstr dbg\_action2str (e\_card\_action action)

---

## Typedef Documentation

`typedef char* cstr`

type of pointer to string

pointer to character array

Definition at line 201 of file `ais_hotel.h`.

---

## Enumeration Type Documentation

`enum e_card_action`

### Enumerator

*ACTION\_CARD\_FOREIGN*  
*ACTION\_CARD\_DISCARDED*  
*ACTION\_CARD\_HACKED*  
*ACTION\_CARD\_BAD\_DATA*  
*ACTION\_CARD\_NO\_DATA*  
*ACTION\_CARD\_UNLOCKED*  
*ACTION\_CARD\_UNLOCKED\_1*  
*ACTION\_CARD\_UNLOCKED\_2*  
*ACTION\_CARD\_UNLOCKED\_3*  
*ACTION\_CARD\_UNLOCKED\_4*  
*ACTION\_CARD\_UNLOCKED\_5*  
*ACTION\_CARD\_UNLOCKED\_6*  
*ACTION\_CARD\_UNLOCKED\_7*

Definition at line 29 of file `ais_hotel.h`.

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## Function Documentation

**DL\_API DL\_STATUS AIS\_Hotel\_CommunicationOpen (void )**

Open FTDI USB RS485 communication port. Be careful - connect only one FTDI RS485 unit to computer.

You must open port if you need to communicate with a device.

### Returns:

DL\_STATUS

### See Also:

DL\_STATUS enum

**DL\_API DL\_STATUS AIS\_Hotel\_CommunicationClose (void )**

Close and release FTDI USB RS485 communication port ( if opened ).

### Returns:

DL\_STATUS

**See Also:**

DL\_STATUS enum

DL\_API DL\_STATUS AIS\_Hotel\_GetStatus (int *reader\_id*, int \* *is\_power\_on*, int \* *unreaded\_rte*, unsigned char *status\_data*[5])

Check relevant statuses of the desired reader.

**Parameters:**

in	<i>reader_id</i>	The reader ID : from 1 to 65534
out	<i>is_power_on</i>	Return TRUE (not null) if the reader detect active electric power
out	<i>unreaded_rte</i>	Return how many RTE (Real Time Events) is unread from the reader
out	<i>status_data</i>	For debug purpose only - send NULL.

**Returns:**

DL\_STATUS

**See Also:**

DL\_STATUS enum

DL\_API DL\_STATUS AIS\_Hotel\_TimeGet (int *reader\_id*, int \* *tm\_year*, int \* *tm\_mon*, int \* *tm\_mday*, int \* *tm\_hour*, int \* *tm\_min*, int \* *tm\_sec*)

Get actual date and time from the reader clock.

**Parameters:**

in	<i>reader_id</i>	The reader ID : from 1 to 65534
out	<i>tm_year</i>	2000 - 2100
out	<i>tm_mon</i>	1 - 12
out	<i>tm_mday</i>	1 - 31
out	<i>tm_hour</i>	0 - 23
out	<i>tm_min</i>	0 - 59
out	<i>tm_sec</i>	0 - 59

**Returns:**

DL\_STATUS

**See Also:**

DL\_STATUS enum

DL\_API DL\_STATUS AIS\_Hotel\_TimeSet (int *reader\_id*, const char *password*[], int *tm\_year*, int *tm\_mon*, int *tm\_mday*, int *tm\_hour*, int *tm\_min*, int *tm\_sec*)

Set date and time at the reader clock.

**Parameters:**

in	<i>reader_id</i>	The reader ID : from 1 to 65534
in	<i>password</i>	Actual reader password - send as C-string ( null terminated string )
in	<i>tm_year</i>	2000 - 2100
in	<i>tm_mon</i>	1 - 12
in	<i>tm_mday</i>	1 - 31
in	<i>tm_hour</i>	0 - 23
in	<i>tm_min</i>	0 - 59
in	<i>tm_sec</i>	0 - 59

**Returns:**

DL\_STATUS

**See Also:**

DL\_STATUS enum

**DL\_API DL\_STATUS AIS\_Hotel\_CardBlock (int *reader\_id*, const char *password*[], int *card\_sn*)**

Block mifare card with serial number on the reader with specific ID.

**Parameters:**

in	<i>reader_id</i>	The reader ID : from 1 to 65534
in	<i>password</i>	Actual reader password - send as C-string ( null terminated string )
in	<i>card_sn</i>	Serial number of card which want to block - reader will not pass that card anymore

**Returns:**

DL\_STATUS

**See Also:**

DL\_STATUS enum

**DL\_API DL\_STATUS AIS\_Hotel\_CardUnblock (int *reader\_id*, const char *password*[], int *card\_sn*)**

Unblock mifare card with serial number on the reader with specific ID.

**Parameters:**

in	<i>reader_id</i>	The reader ID : from 1 to 65534
in	<i>password</i>	Actual reader password - send as C-string ( null terminated string )
in	<i>card_sn</i>	Serial number of card which want to unblock

**Returns:**

DL\_STATUS

**See Also:**

DL\_STATUS enum

**DL\_API DL\_STATUS AIS\_Hotel\_CardUnblockAll (int *reader\_id*, const char *password*[])**

Reset whole black list to allow all cards ( all serial numbers )

**Parameters:**

in	<i>reader_id</i>	The reader ID : from 1 to 65534
in	<i>password</i>	Actual reader password - send as C-string ( null terminated string )

**Returns:**

DL\_STATUS

**See Also:**

DL\_STATUS enum

**DL\_API DL\_STATUS AIS\_Hotel\_GetLastRTE (int *reader\_id*, int \* *new\_log*, int \* *action*, int \* *card\_id*, int \* *system\_id*, int \* *tm\_year*, int \* *tm\_mon*, int \* *tm\_mday*, int \* *tm\_hour*, int \* *tm\_min*, int \* *tm\_sec*)**

Get one RTE (real time event) if exist from specific reader

**Parameters:**

in	<i>reader_id</i>	The reader ID : from 1 to 65534
out	<i>new_log</i>	return not zero value if this function really read RTE from the reader - in this case follow parameters are valid
out	<i>action</i>	give what action specific card was created on the reader
out	<i>card_id</i>	give ID of checked Mifare card
out	<i>system_id</i>	give the system ID if the card is from another system ( Job ID )
out	<i>tm_year</i>	2000 - 2100



out	<i>tm_mon</i>	1 - 12
out	<i>tm_mday</i>	1 - 31
out	<i>tm_hour</i>	0 - 23
out	<i>tm_min</i>	0 - 59
out	<i>tm_sec</i>	0 - 59

**Returns:**

#### DL\_API const cstr AIS\_GetDLLVersion (void )

Get information about DLL version

**Returns:**

Pointer to static C-string ( null terminated string ), eg. AIS HOTEL DLL version= 4.0.0

#### DL\_API cstr dbg\_status2str (DL\_STATUS status)

Function for debug purpose. Convert DL\_STATUS value to string.

**Parameters:**

in	<i>status</i>	
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**Returns:**

Pointer to static C-string ( null terminated string ) with DL\_STATUS description

#### DL\_API cstr dbg\_action2str (e\_card\_action action)

Function for debug purpose. Convert card action value to string.

**Parameters:**

<i>action</i>	
---------------	--

**Returns:**

## ais\_hotel/include/dl\_status.h File Reference

Enumerations

```
enum DL_STATUS { DL_OK = 0x00, TIMEOUT_ERROR, CRC_ERROR, NULL_POINTER,
PARAMETERS_ERROR, MEMORY_ALLOCATION_ERROR, NOT_INITIALIZED,
ALREADY_INITIALIZED, BUFFER_OVERFLOW, TIMESTAMP_INVALID, EVENT_BUSY,
RESOURCE_NOT_ACQUIRED, RESOURCE_ALREADY_ACQUIRED, RESOURCE_BUSY,
FILE_OVERSIZE, FILE_EMPTY, FILE_LOCKED, DEVICE_OPENING_ERROR,
DEVICE_CAN_NOT_OPEN, DEVICE_ALREADY_OPENED, DEVICE_NOT_OPENED,
DEVICE_INDEX_OUT_OF_BOUND, DEVICE_CLOSE_ERROR,
LOG_BUFFER_OVERFLOW, LOG_EMPTY, LOG_NOT_CORRECT,
CMD_RESPONSE_UNKNOWN_COMMAND, CMD_RESPONSE_WRONG_CMD,
CMD_RESPONSE_COMMAND_FAILED, CMD_RESPONSE_NO_AUTHORIZATION,
CMD_RESPONSE_UNSUCCESS, CMD_RESPONSE_SIZE_OVERFLOW,
CMD_BRAKE_RTE, ITEM_IS_ALREADY_IN_LIST, ITEM_NOT_IN_LIST,
THREAD_FAILURE, ERR_OBJ_NOT_CREATED, DL_HAMMING_NOT_ACK,
DL_HAMMING_WRONG_ACK, DL_HAMMING_WRONG_REPLAY,
DL_HAMMING_TERR_TIMEOUT, DL_HAMMING_TERR_BAD_FRAME,
DL_HAMMING_TERR_BAD_SUM, DL_HAMMING_TERR_BAD_CODE,
DL_HAMMING_TERR_TOO_OLD, DL_HAMMING_TERR_NOISE,
```

```

DL_HAMMING_TERR_ERROR_MASK, ERROR_SOME_REPLAY_FALULT,
NO_DEVICES, NO_FTDI_COMM_DEVICES = 0x10000,
NO_FTDI_COMM_DEVICES_OPENED, ERR_FTDI_READ,
ERR_FTDI_READ_LESS_DATA, ERR_FTDI_WRITE, ERR_FTDI_WRITE_LESS_DATA,
DL_FT_ERROR_SET_TIMEOUT, DL_FT_ = 0x10010, DL_FT_INVALID_HANDLE,
DL_FT_DEVICE_NOT_FOUND, DL_FT_DEVICE_NOT_OPENED, DL_FT_IO_ERROR,
DL_FT_INSUFFICIENT_RESOURCES, DL_FT_INVALID_PARAMETER,
DL_FT_INVALID_BAUD_RATE, DL_FT_DEVICE_NOT_OPENED_FOR_ERASE,
DL_FT_DEVICE_NOT_OPENED_FOR_WRITE, DL_FT_FAILED_TO_WRITE_DEVICE,
DL_FT_EEPROM_READ_FAILED, DL_FT_EEPROM_WRITE_FAILED,
DL_FT_EEPROM_ERASE_FAILED, DL_FT_EEPROM_NOT_PRESENT,
DL_FT_EEPROM_NOT_PROGRAMMED, DL_FT_INVALID_ARGS,
DL_FT_NOT_SUPPORTED, DL_FT_OTHER_ERROR,
DL_FT_DEVICE_LIST_NOT_READY, READER_ERRORS_ = 0x1100,
READER_UID_ERROR, READER_LOG_ERROR, UNKNOWN_ERROR = 0xFFFFFFFF,
NOT_IMPLEMENTED = 0xFFFFFFFFE, MAX_DL_STATUS = 0xFFFFFFFF, LAST_ERROR =
0xFFFFFFFF }

```

---

## Enumeration Type Documentation

enum DL\_STATUS

### Enumerator

```

DL_OK
TIMEOUT_ERROR
CRC_ERROR
NULL_POINTER
PARAMETERS_ERROR
MEMORY_ALLOCATION_ERROR
NOT_INITIALIZED
ALREADY_INITIALIZED
BUFFER_OVERFLOW
TIMESTAMP_INVALID
EVENT_BUSY
RESOURCE_NOT_ACQUIRED
RESOURCE_ALREADY_ACQUIRED
RESOURCE_BUSY
FILE_OVERSIZE
FILE_EMPTY
FILE_LOCKED
DEVICE_OPENING_ERROR
DEVICE_CAN_NOT_OPEN
DEVICE_ALREADY_OPENED
DEVICE_NOT_OPENED
DEVICE_INDEX_OUT_OF_BOUND
DEVICE_CLOSE_ERROR
LOG_BUFFER_OVERFLOW
LOG_EMPTY
LOG_NOT_CORRECT
CMD_RESPONSE_UNKNOWN_COMMAND
CMD_RESPONSE_WRONG_CMD
CMD_RESPONSE_COMMAND_FAILED
CMD_RESPONSE_NO_AUTHORIZATION

```

**CMD\_RESPONSE\_UNSUCCESS**  
**CMD\_RESPONSE\_SIZE\_OVERFLOW**  
**CMD\_BRAKE\_RTE**  
**ITEM\_IS\_ALREADY\_IN\_LIST**  
**ITEM\_NOT\_IN\_LIST**  
**THREAD\_FAILURE**  
**ERR\_OBJ\_NOT\_CREATED**  
**DL\_HAMMING\_NOT\_ACK**  
**DL\_HAMMING\_WRONG\_ACK**  
**DL\_HAMMING\_WRONG\_REPLAY**  
**DL\_HAMMING\_TERR\_TIMEOUT**  
**DL\_HAMMING\_TERR\_BAD\_FRAME**  
**DL\_HAMMING\_TERR\_BAD\_SUM**  
**DL\_HAMMING\_TERR\_BAD\_CODE**  
**DL\_HAMMING\_TERR\_TOO\_OLD**  
**DL\_HAMMING\_TERR\_NOISE**  
**DL\_HAMMING\_TERR\_ERROR\_MASK**  
**ERROR\_SOME\_REPLAY\_FATAL**  
**NO\_DEVICES**  
**NO\_FTDI\_COMM\_DEVICES**  
**NO\_FTDI\_COMM\_DEVICES\_OPENED**  
**ERR\_FTDI\_READ**  
**ERR\_FTDI\_READ\_LESS\_DATA**  
**ERR\_FTDI\_WRITE**  
**ERR\_FTDI\_WRITE\_LESS\_DATA**  
**DL\_FT\_ERROR\_SET\_TIMEOUT**  
**DL\_FT**  
**DL\_FT\_INVALID\_HANDLE**  
**DL\_FT\_DEVICE\_NOT\_FOUND**  
**DL\_FT\_DEVICE\_NOT\_OPENED**  
**DL\_FT\_IO\_ERROR**  
**DL\_FT\_INSUFFICIENT\_RESOURCES**  
**DL\_FT\_INVALID\_PARAMETER**  
**DL\_FT\_INVALID\_BAUD\_RATE**  
**DL\_FT\_DEVICE\_NOT\_OPENED\_FOR\_ERASE**  
**DL\_FT\_DEVICE\_NOT\_OPENED\_FOR\_WRITE**  
**DL\_FT\_FAILED\_TO\_WRITE\_DEVICE**  
**DL\_FT\_EEPROM\_READ\_FAILED**  
**DL\_FT\_EEPROM\_WRITE\_FAILED**  
**DL\_FT\_EEPROM\_ERASE\_FAILED**  
**DL\_FT\_EEPROM\_NOT\_PRESENT**  
**DL\_FT\_EEPROM\_NOT\_PROGRAMMED**  
**DL\_FT\_INVALID\_ARGS**  
**DL\_FT\_NOT\_SUPPORTED**  
**DL\_FT\_OTHER\_ERROR**  
**DL\_FT\_DEVICE\_LIST\_NOT\_READY**  
**READER\_ERRORS**  
**READER\_UID\_ERROR**  
**READER\_LOG\_ERROR**  
**UNKNOWN\_ERROR**  
**NOT\_IMPLEMENTED**  
**MAX\_DL\_STATUS**  
**LAST\_ERROR**

Definition at line 14 of file dl\_status.h.

# Index

INDEX