



RFID Middleware

API Manual

V2.0

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Revision history

Version	Revised contents	Reviser/Revision date
V1.0	Origianl version	Yang Zhiqiang /2017.10.09

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1 Instruction

1.1 Summary

This manual is used for middleware related interfaces in the Middleware Client development process .

1.2 Term

1.2.1 Middleware client

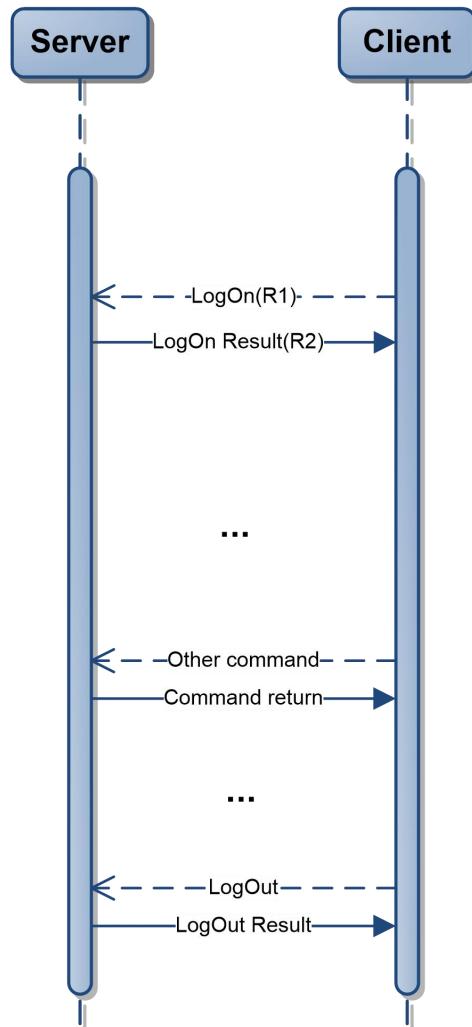
A software that uses middleware

1.2.2 UID

A unique ID generated by the middleware service, 16 bytes long (32 characters).
UID is used for client to login main station system.

1.3 Interface interaction flow chart

1.3.1 Flow chart



2 Interface definition

2.1 JMSInterface Class

2.1.1 Summary

JMSInterface is in Interface Module of com.hopeland.middleware.message Package, encapsulated the JMS interface provided by middleware. It is used to provide JMS interface call between client and Middleware.If interface call failed , it will throw exception .

2.1.2 Field description

None

2.1.3 Interface specification

2.1.3.1 Structure

Function	public JMSInterface(String queue)
Parameter	queue: JMS Main queue
Return value	None
Remark	None

Function	public WebInterface(String url, String queue)
Parameter	url: Middleware Web Service URL, E.g "http://192.168.1.1/MiddleWare/" queue: JMS Main queue
Return value	None
Remark	None

2.1.3.2 JMS Configuration

Function	public boolean resetMainQueue(String queue)
Parameter	queue: JMS Main queue
Return value	true/false setup succeeded or failed
Remark	None

Function	public boolean resetURL(String url)
Parameter	url: Middleware Web Service URL, E.g "http://192.168.1.1/MiddleWare/"
Return value	true/false setup succeeded or failed
Remark	None

2.1.3.3 Login

Function	public void logon(String uid)
Parameter	uid: Client UID
Return value	None
Remark	The UID used for login must be generated by middleware.

2.1.3.4 Logout

Function	public void logout()
Parameter	None
Return value	None
Remark	Exit login status, that is disconnect the middleware service connection .

2.1.3.5 Heartbeat

Function	public void heart()
Parameter	None
Return value	None
Remark	Connection for maintaining client and middleware service

2.1.3.6 Access device information

Function	public List<DeviceInfo> getDevice(int id)
Parameter	id: Device ID, Get all device information when passing -1
Return value	Return device information list
Remark	The device information is defined by the interface specification

2.1.3.7 Get task information

Function	public List<TaskInfo> getTask(int id)
Parameter	id: Task ID, Get all device information when passing -1
Return value	Return device information list
Remark	The device information is defined by the interface specification

2.1.3.8 Enforcement process

Function	public void forceProcedure(String task, String procedure)
Parameter	task: Task name procedure: procedure name
Return value	None
Remark	None

3 ReportManager class

3.1.1 Summary

ReportManager is in Interface module of com.hopeland.middleware.message Package, encapsulated the report callback management method. If the interface call provided by ReportManager failed, it will throw an exception .

3.1.2 Field specification

None

3.1.3 Interface specification

3.1.3.1 Configure URI

Function	public boolean setURI(String uri)
Parameter	uri: JMS Middleware URI, E.g "tcp://10.8.175.44:61616"
Return value	None
Remark	Configure message middleware URI

3.1.3.2 Register report callback

Function	public boolean registerCallBack(String queue, ReportCallBack callBack)
Parameter	queue: JMS queue name callBack: Report processing callback
Return value	true/false Login succeeded or failed
Remark	After the callback of the registration report, if there is a report message in the specified queue, and the callback is called and send report message to the application

3.1.3.3 Remove all report callbacks

Function	public void removeAllCallBack()
Parameter	None
Return value	None
Remark	None

4 ReportCallBack interface

4.1.1 Summary

ReportCallBack is in Interface Module of com.hopeland.middleware.message Package, is the specified callback interface for the registration report callback.

4.1.2 Field description

None

4.1.3 Interface specification

4.1.3.1 State report processing

Function	void reportStatus(List<StatusReport> report)
Parameter	report: Status report list
Return value	None
Remark	Call the interface when the state report is in the message queue

4.1.3.2 Message processing

Function	void reportTag(List<TagReport> report);
Parameter	report: Tag report list
Return value	None
Remark	Call the interface when the message report is in the message queue