

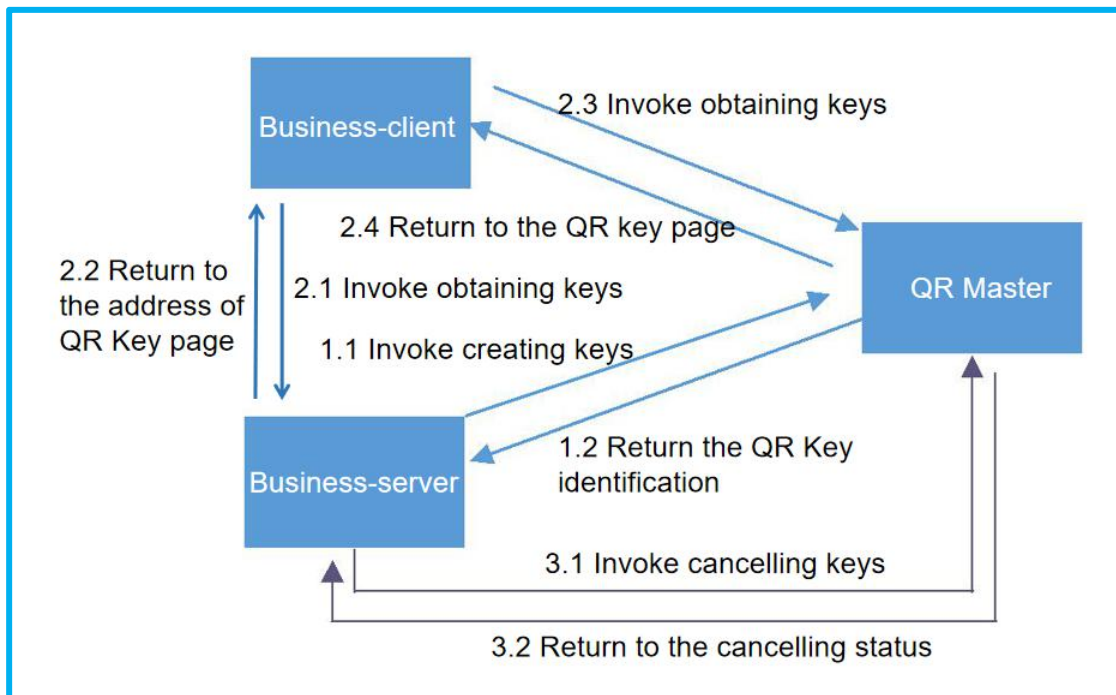
Instruction about API of QR Master

1/ Introduction about API of QR Master

(1) API of QR Master is provided for the third party who wants to obtain QR Keys online in his own systems.

➤ Through the API of QR Master, the third party can:

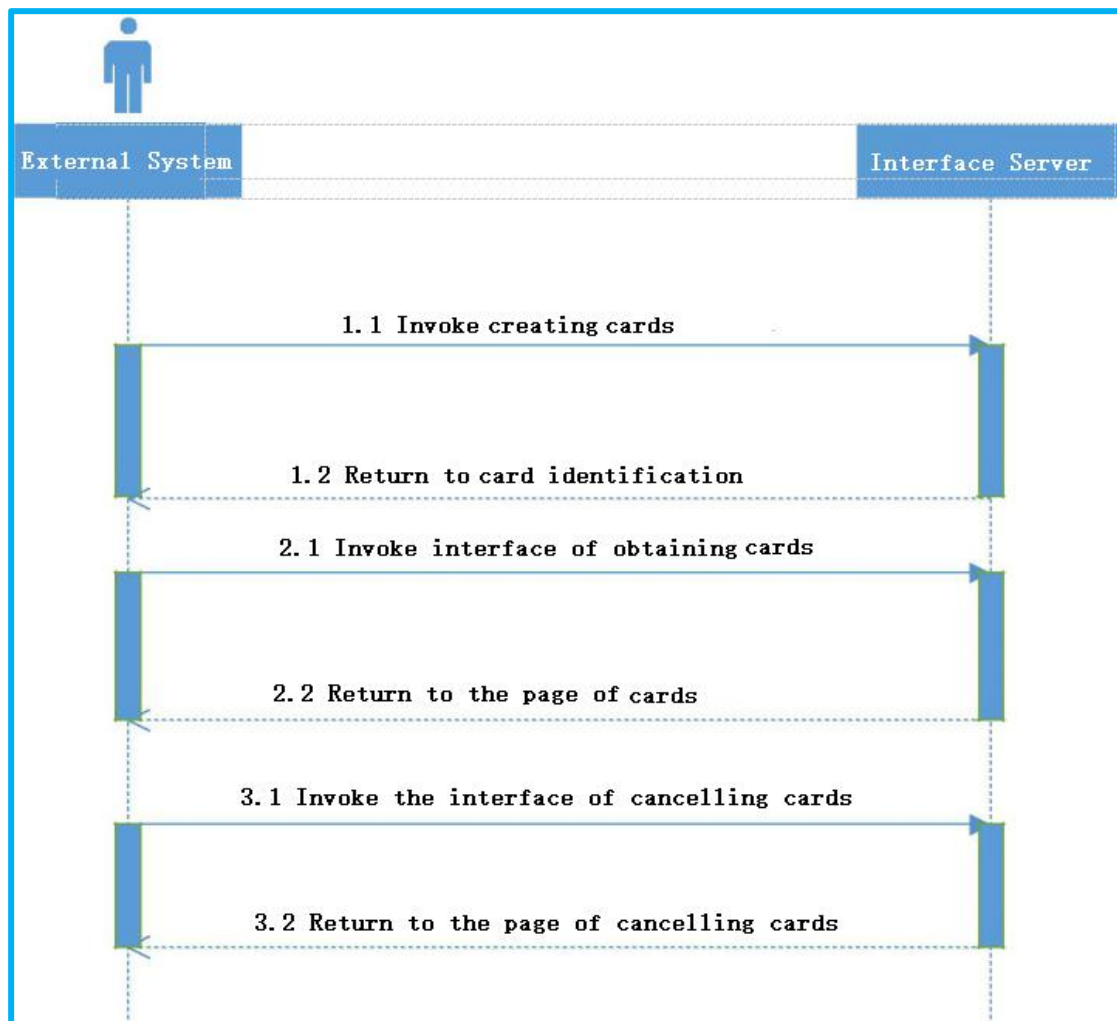
- obtain and cancel QR Keys online through his own system;
- Issue, read, and remove RF card(The API concerning RF card should be connected with external tools like card issuer and website of QR Master.)



(2) API type:

● API for QR Code

QR Code / Bluetooth API type	Introduction	Price
Trial version	Support applying for room cards for the day (only for test), create up to 10 room cards per day (50 trial clusters)	Free
Standard version	Standard version, used for the third-party system. Using it, you can obtain and cancel cards online.	800.00RMB/1years
Professional version	Professional version, used for the third-party system. Using it, you can obtain and cancel cards online and set your own logo.	1100.00RMB/1years
Advanced version	Advanced version, used for the third-party system. Using it, you can: Obtain and cancel cards online; Set your own logo; Provide advertising space; Add your company's name.	5800.00RMB/1years
Share version	Share version, used for the third-party system. Using it, you can: Obtain and cancel cards online; Set your own logo; Support the return to QR Code card image and interface of user-defined unlock by Bluetooth. Number of rooms: 300 or less.	6800.00RMB/2years
Custom version	Custom version, for third-party system. Using it, you can: Obtain and cancel cards online; Set your own logo; Support the return to QR Code card image and interface of user-defined unlock by Bluetooth; Support obtaining building cards and floor cards	9800.00RMB/1years



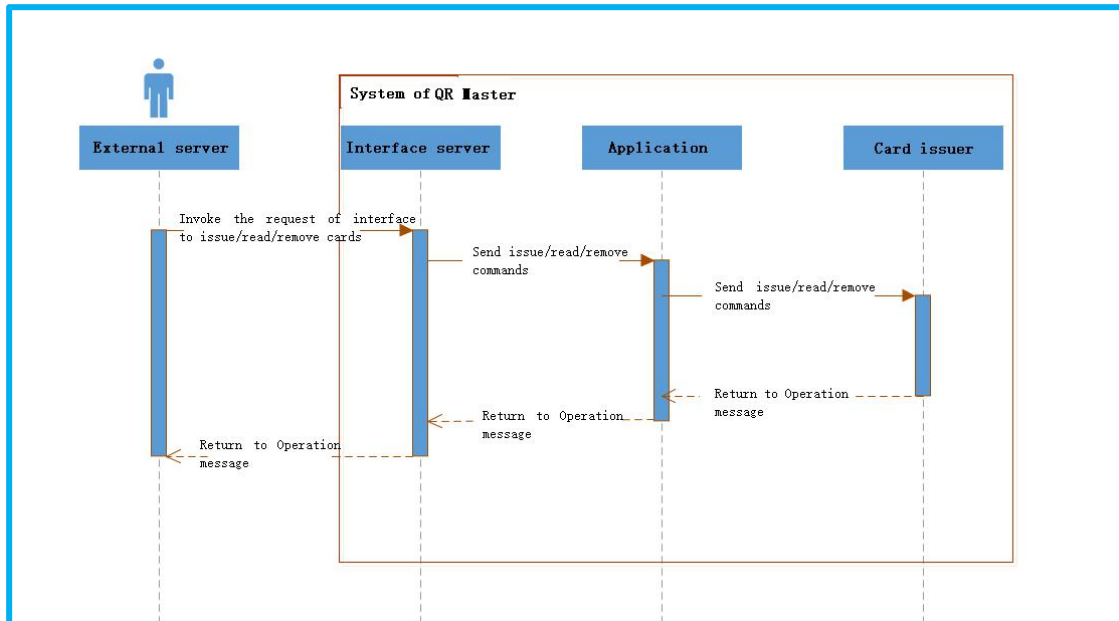
The process of invoking API of QR Keys

- Create cards: The third party can create room cards(QR Keys) via Server in QR Master.
- Obtaining cards(for Standard, Professional, and Advanced version): The third party can obtain cards(QR Keys) created. The API will reverse back a HTML page with QR Code.
- Obtaining cards(for Share and Custom version): The third party can obtain room cards(QR Keys) created. The API will reverse back a picture of QR Code with base64.
- Cancel cards: The third party can cancel the cards created so as to make it invalid.

● API for RF card

RFAPI type	Introduction	Price
Trial version	Support applying for room cards for the day.(only for test), create up to 10 room cards per day (50 trial clusters)	Free
Basic version	Applicable toRF、QR、QRA、QRB、QRN、QRM LOCK; for third-party application development to web, can obtain room information for card issuance.	500.00RMB/2years

- Obtain MAC of card issuer: Used for issuing RF cards in the third system. The MAC reversed back can be used to issue, read and cancel RF cards.



2/Process of accessing the API

If you have not activate the API service, you can directly use the trial account in QR master(In the front page of QR Master <http://qrm.uclbrt.com/> to click “Try at once” → Choose 锁掌柜体验群 QR Sample Test to connect with the API of QR Master. The data of this trial account has been set beforehand so you just needs to login and check to get it. For further accessing progress, please refer to the accessing progress of the clients who have activated it and used it as follows.

If you have activated the API(Please contact at 400-8618286 to activating it), you can use your own account to access by the following steps:

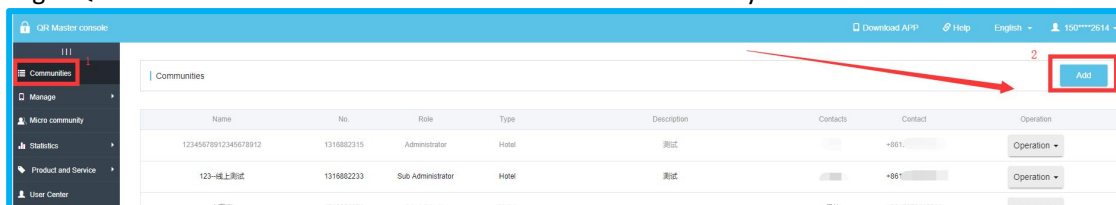
- Authorize community and API;
- Set parameters required;
- Invoke the API.

(1) Before invoking:

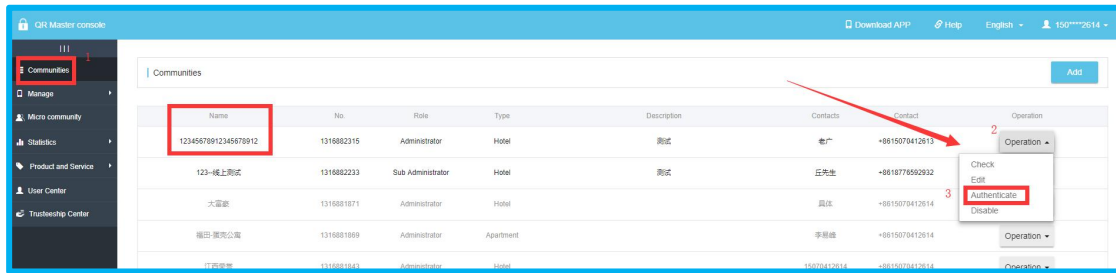
Before you connect the API, you need to fill in some parameters such as community No., room NO., building NO., etc. So you need to make sure that you have registered in QR Master, authorized the community and API, and configured basic parameters.

➤ Authorize the community:

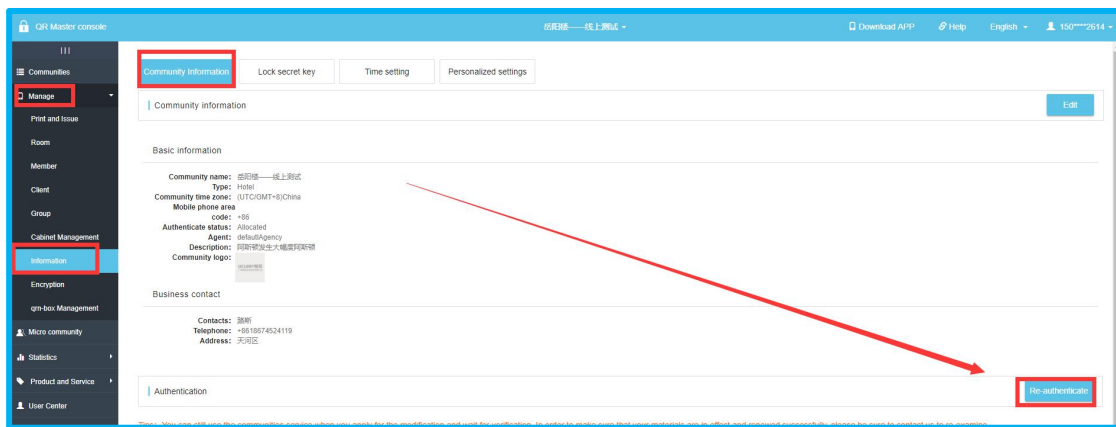
Login QR Master→Click “Add”→Fill in basic info of the community and submit.



After adding the community, you can find your community in the list and click “Operation” and choose “Authenticate” to authorize.

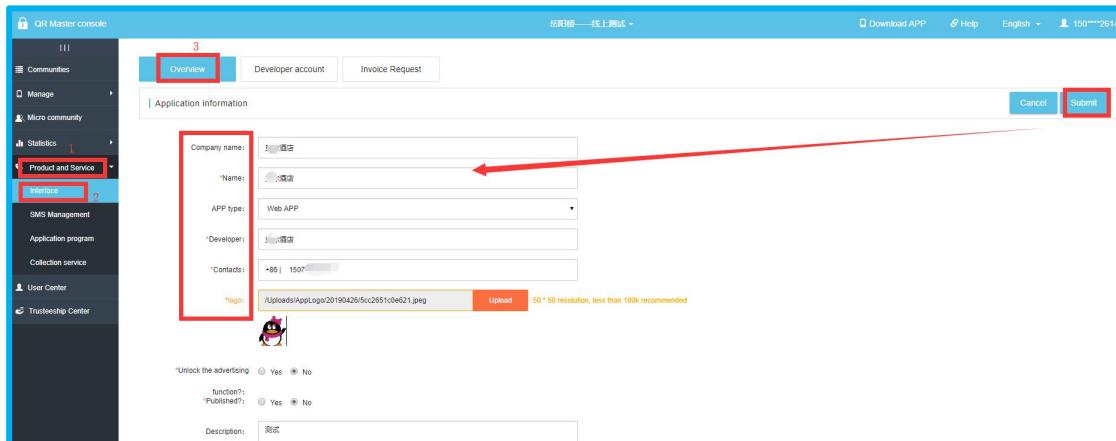


Click "Manage" → "Information" → "Community Information" → "Re-authenticate" → Fill in your valid personal or company certificates to submit. After submitting, please contact the sales of QR Master or the manager to review and authorize.



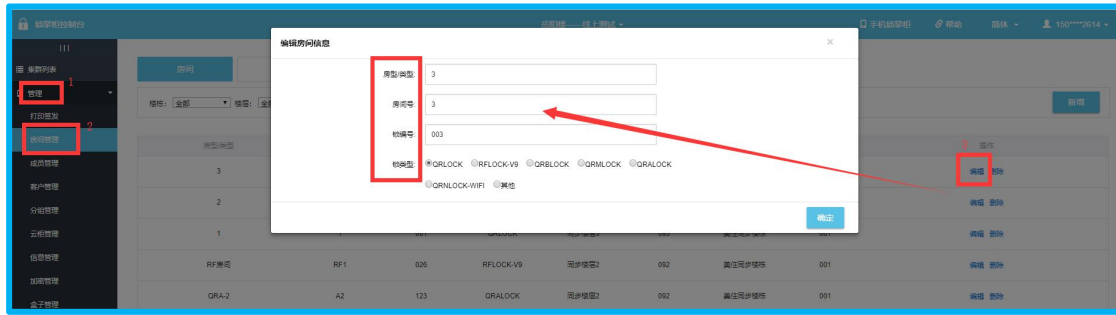
➤ API Authentication

Login QR Master → "Product and Service" → "Interface" → "Overview" → Click "Edit" → Fill in the information required and click "Submit".

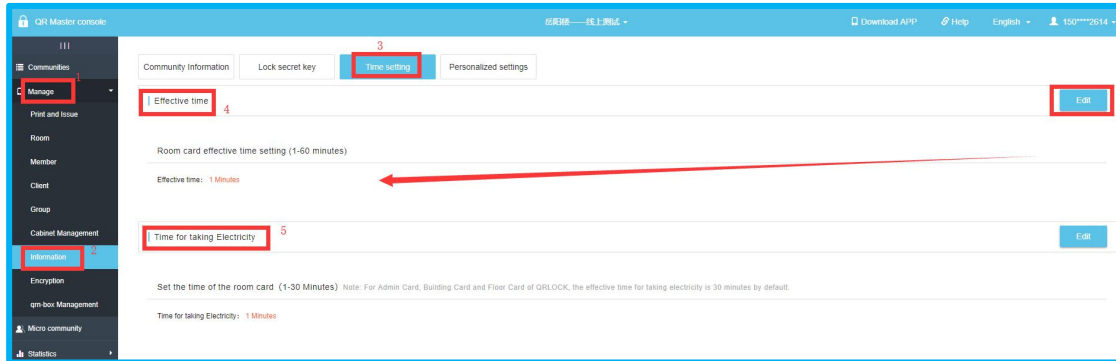


➤ Create the room, floor, and building

You can set the information of buildings, floors and rooms of the community via this page.



➤ Set the effective time of QR Code in “Time setting”.

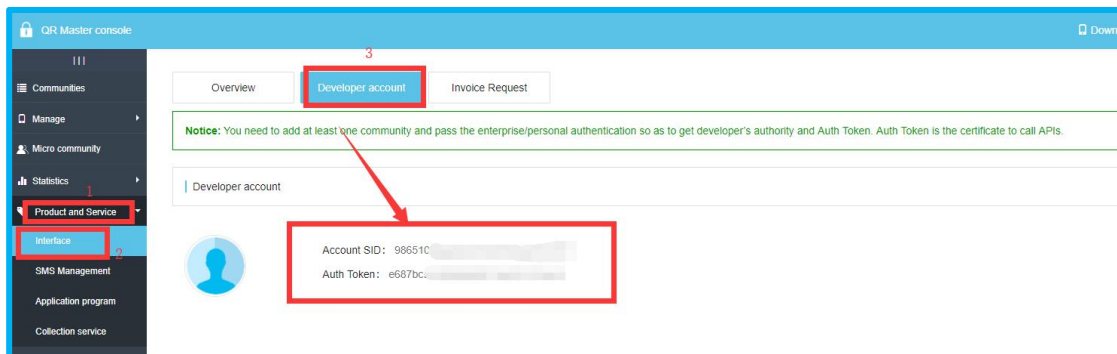


(2) Parameters Setting

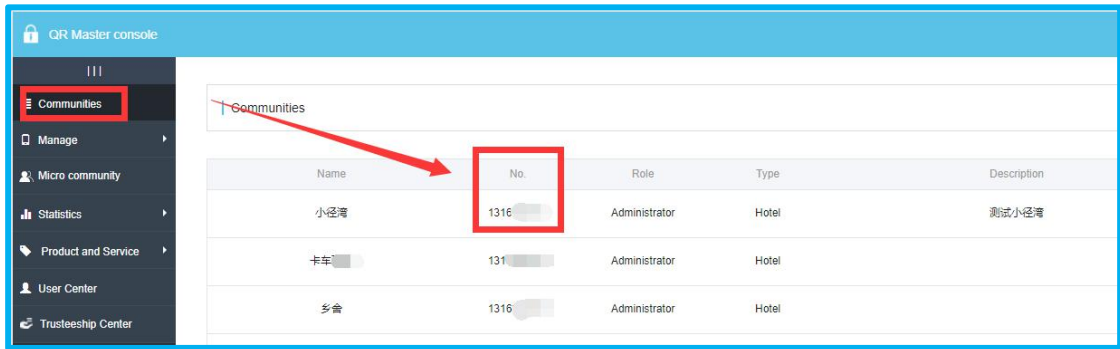
You need to acquire the following parameters when invoking the API of QR Master.

Parameter	Explanation
Account SID	Account SID
Auth Token	Account Authentication Token
communityNo	Community ID
buildNo	Building No.
floorNo	Floor No.
roomNo	Room No.

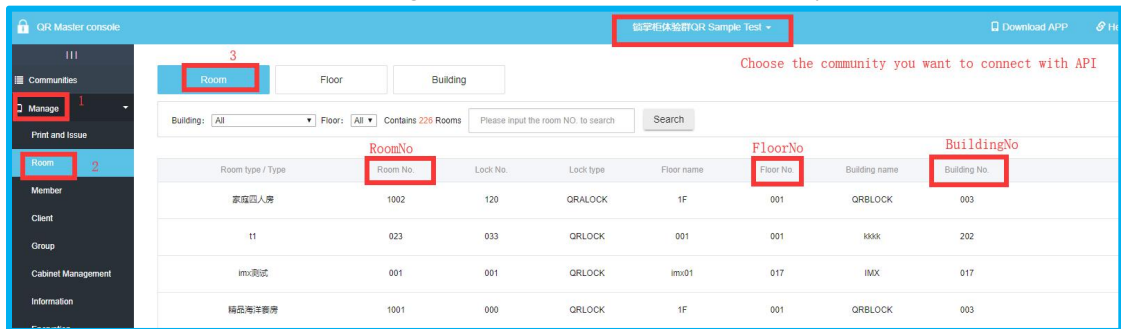
➤ Account SID, Auth Token: “Product and Service”→”Interface”→”Developer Account”



➤ CommunityNo: “Communities”→ Choose the community that needs to connect with API, its No. is the CommunityNo..



- BuildNo, FloorNo, RoomNo: "Manage" → "Room" → Choose the correct parameters.



(3) Invoking Process

- Errors that may occur in the process (Related code explanation)

<http://qrm.uclbrt.com/errorCode.html#openCenterMenuAnchor>

- Demo and SDK collection (By PHP)

<https://gitee.com/uclbrt/api-sdk>

- Create QR Key

URL: <https://api.uclbrt.com/?c=Qrcode&a=getLink>

Return: the record No. of QR Key (The record No. can be used to cancel the QR Key)

You can download the demo in the following URL to view more details:

<http://qrm.uclbrt.com/openQrcodeLinkv2.0.html#openCenterMenuAnchor>

- Obtain QR Key

URL: <http://cz.uclbrt.com/apiLogin?data={data}>

Return: A page with QR Code (It can be visited through browser or embed in your App.)

You can download the demo in the following URL to view more details:

<http://qrm.uclbrt.com/openGetCardv2.0.html#openCenterMenuAnchor>

- Cancel QR Key

URL: <https://api.uclbrt.com:8058/?c=Qrcode&a=cancelCard&sig={sig}>

Return: Cancel status

You can download the demo in the following URL to view more details:

<http://qrm.uclbrt.com/openQrcodeCancelv2.0.html#openCenterMenuAnchor>

➤ **Issue QR Key**

URL: <https://api.uclbrt.com/Home/Qrm/makeRoomCard>

Return: Issue status

You can download the demo in the following URL to view more details:

<http://qrm.uclbrt.com/qrmMakeRoomCard.html#navBar>

➤ **Read RF Card**

URL: <https://api.uclbrt.com/Home/Qrm/readCard>

Return: Message read through the RF Card

You can download the demo in the following URL to view more details:

<http://qrm.uclbrt.com/qrmReadRoomCard.html#navBar>

➤ **Cancel RF Card**

URL: <https://api.uclbrt.com/Home/Qrm/cancelCard>

Return: Cancel status

You can download the demo in the following URL to view more details:

<http://qrm.uclbrt.com/qrmCancelRoomCard.html#navBar>

URL: <https://api.uclbrt.com/Home/Qrm/getMacList>

Return: MAC list of the card issuer in the community

You can download the demo in the following URL to view more details:

<http://qrm.uclbrt.com/qrmGetissueMac.html#navBar>

More questions, please view in this link:

<http://qrm.uclbrt.com/openDocument.html#navBar>