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RoamWiFi

ESIM API Documentation

Tianjin Roam WiFi Technology Co.,Ltd

Document description

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1 Basic Information

(1) test using keys:**1234567890qwertyuiopasdfghjklzxc**

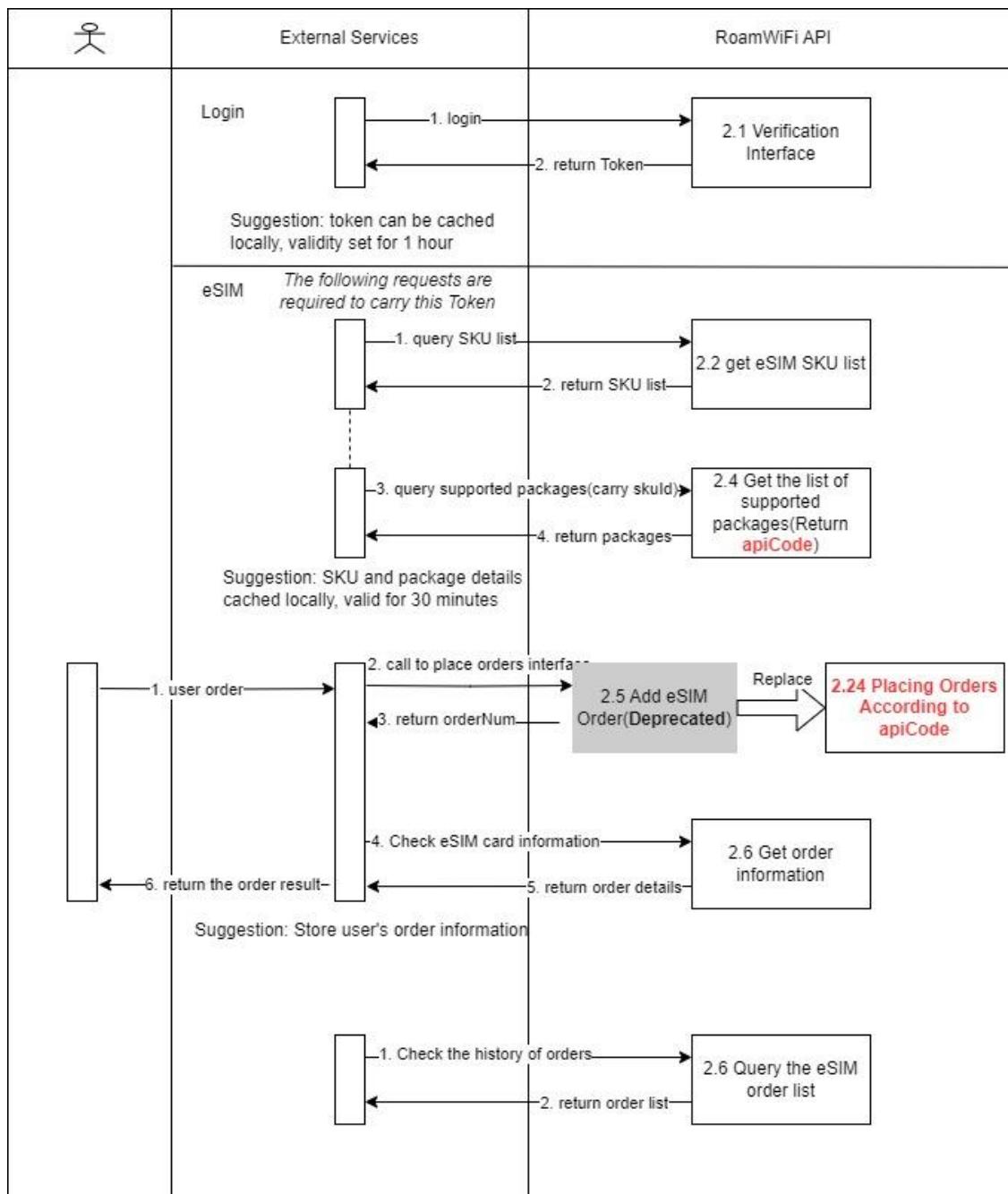
(2) Verification ID token is valid for 2 hours, and each time a token is generated, the last one expires. The cache should be local and expire in less than two hours.

(3) Please see the appendix for JAVA, PHP, and Python login demos

(4) For users in Mainland China, please use: <http://bpm.roamwifi.com>

For overseas regions, please use: <https://bpm.roamwifi.hk>

2 eSIM interface



2.1 Verification Information Interface Description

2.1.1 Interface Description

Authentication information interface: Verifies the information of the BPM system user and successfully returns the call identifier for the call parameters of other interfaces.

2.1.2 Interface constraints

No.	Field name	Types of	Is empty	description
1	Phone number	String	NO	phone number
2	password	String	NO	password
3	sign	String	NO	signature

2.1.3 Interface name

Production Access:https://bpm.roamwifi.hk/api_order/login

2.1.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	int	no	responsestatus
2	message	String	no	responseinformation
3	data	map	no	responsesdataHere storage token

2.1.5 Return form

```
Landed successfully:{ "Code": 1, "message": "! Successful", "data": { "token": "29281-9EFE5E410BEF5300DD15E3830BD65601"}}
```

```
failure:{ "Code": - 1, "message": "Username Password wrong!", "Data": ""}
```

```
failure:{ "Code": - 2, "message": "! Username or password is empty", "data": ""}
```

```
failure:{ "Code": - 3, "message": "No call interface permission", "data": ""}
```

```
Failure: {code: -30, message: sign wrong, data:}
```

2.2 get eSIM SKU list

2.2.1 Interface Description

Query the supported eSIM product list information

2.2.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	sign	String	No	Parameter signature	

2.2.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/getSkus

2.2.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

The content data

Field name	description	Mandatory	Remark	Types of
skuid	Sku coding	Y		Integer
display	Sku display name	Y		String
countryCode	Country code	Y		String

2. 2. 5 Return Form

```
success: {"code": "0","message": "success",
  "data": [
    {
      "skuid": 156,
      "display": "Africa",
      "countryCode": "99918"
    },
    {
      "skuid": 124,
      "display": "Asia 30",
      "countryCode": "99115"
    },
    {
      "skuid": 123,
      "display": "Asia 4",
      "countryCode": "99112"
    }
  ]
}

fail: {"code": -1,"message": "token expire","data": ""}
```

2.3 Get SKUs and grouping them by continent

2.3.1 Interface Description

Get SKUs and grouping them by continent.

2.3.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	sign	String	No	Parameter signature	

2.3.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/getSkuByGroup

2.3.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

data field attribute

Field name	description	Mandatory	Remark	Types of
continent	continent name	Y		String

data	sku collection	Y		Map<String, List<BpmESIMSkunewDto>>
------	----------------	---	--	-------------------------------------

Returns the BpmESIMSkunewDto attribute of the format data.data field

Field name	description	Man dat ory	Remark	Types of
skuid	sku encoding	Y		String
countrycode	country code	Y		String
imageUrl	Product icon	Y		String
display	Product Chinese name	Y		String
note	product description	Y		String
search	search condition	Y		String
continentCode	continent number	Y		String

2. 3. 5 Return Form

```

success:
{
    "code": "0",
    "message": "success",
    "data": {
        "continent": [
            "Common",
            "Asia",
            ...
        ]
    }
}

```

```
],
"data": {
    "Common": [
        {
            "skuid": 123,
            "countryCode": 99112,
            "imageUrl": "http://img.roamwifi.com/phoneImage/202309//92529d82-4f15-445d-83ab-0b11bac40faf.jpg",
            "display": "Asia 8 countries",
            "note": "Korea,Cambodia,Malaysia,Thailand,Singapore,Indonesia,Vietnam, Japan",
            "search": "Korea,Cambodia,Malaysia,Japan,Thailand,Singapore,Indonesia,Vietnam",
            "continentCode": 7
        },
        ...
    ],
    "Asia": [
        {
            "skuid": 26,
            "countryCode": 392,
            "imageUrl": "http://img.roamwifi.com/phoneImage/202009//0ac9086d-8ca4-4e60-b8d1-2504ca3ada75.jpg",
            "display": "Japan",
            "note": "Japan",
            "search": "Japan",
            "continentCode": 1
        },
        ...
    ],
    ...
}
```

```
},  
fail:  
{ "code": -1, "message": "token expire", "data": "" }  
{  
    "code": -30,  
    "message": "sign wrong",  
    "data": "sign wrong"  
}
```

2.4 Get the list of supported packages according to sku

2.4.1 Interface Description

Query the package list information supported by the current sku

2.4.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	skuId	String	No		
3	sign	String	No	Parameter signature	

2.4.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/getPackages

2.4.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

The content data

Field name	description	Mandatory	Remark	Types of

skuid	Sku's code	Y		String
detailId	Order details id			Integer
countrycode	Country code	Y		String
imageUrl	Product icon			String
display	Product name in Chinese			String
displayEn	Product name in English			String
esimpackageDtoList	esim package collection			List<EsimPackageDto>
supportCountry	Supported Countries			List<String>
expirydate	Expired time			Date
countryImageUr1DtoList	List of country icon information			List<CountryImageUr1Dto>

Return Format EsimPackageDto Field Properties

Field name	description	Mandatory	Remark	Types of
flows	Number of Package Traffic	Y		Integer
days	Days of validity of package	Y		Integer
unit	Traffic unit	Y	GB/MB	String
price	Package Price	Y		Double
priceid	Unique Identification	Y		Integer
flowType	Renewable or not	Y	0 – renewable, 1 – non-renewable	Integer

countryImageUr1DtoList	List of Country Icons	Y		List<CountryImageUrlDto>
showName	Display Name	Y		String
pid		Y		Integer
premark	descriptive	Y		String
expireDays	Expired Policy	Y	0 – effective immediately, non-zero – expires after n days, or 30 days a month in the case of months.	Integer
networkDtoList	Network Support	Y		List<NetworkDto>
supportDaypass	Whether the day package	Y	0–Regular package, 1–Inclusive package, 2–Enum package	Integer
openCardFee	Card Opening Fee	Y		Integer
minDay	Minimum number of days	Y		Integer
singleDiscountDay	Number of days for word discount	Y		Integer
singleDiscount	Word Discount	Y		Integer
maxDiscount	Maximum Discount	Y		Integer
maxDay	Maximum Days	Y		Integer
mustDate	Date required or not	Y	1–Required	Integer
apiCode	Unique identifier for the package	Y	99911-0-?-500-M-D	String

Return Format CountryImageUrlDto Field Properties

Field name	description	Man dat ory	Remark	Types of
imageUrl	Country Icon Links	Y		String
countrycode	Country Code	Y		Integer
name	Country Name	Y		String
nameEn	Country Name (English)	Y		String

Return Format CountryImageUrlDto Field Properties

Field name	description	Man dat ory	Remark	Types of
type	Network Type	Y	0-3G 1-LTE 2-5G	String
operator	Carrier	Y		String
namecn	Country Name	Y		String
nameen	Country Name (English)	Y		String

2. 4. 5 Return Form

```

success:
{
    "code": "0",
    "message": "成功",
    "data": {
        "skuid": 45,
    }
}

```

"detailId": null,
"countrycode": "40",
"imageUrl":
"http://img.roamwifi.com/phonelImage/202009//af0c08eb-6f95-479d-843c-0638e1fc32fa.jpg",
"display": "奥地利",
"displayEn": "Austria",
"esimPackageDtoList": [
 {
 "flows": 1,
 "days": 3,
 "unit": "GB",
 "price": 2.66,
 "priceid": 441,
 "flowType": 0,
 "countryImageUrlDtoList": null,
 "showName": "",
 "pid": 52,
 "premark": "Plan type: Data only
\nAPN: internet
\nActivation Policy: The validity period starts when you turn on roaming and the eSIM connects to any supported network.
\nCancellation policy: Order can not be cancelled or refunded once the \"install eSIM\" button is clicked.",
 "overlay": 1,
 "expireDays": 0,
 "networkDtoList": [
 {
 "type": "LTE",
 "operator": "A1.net",
 "namecn": "奥地利",
 "nameen": "Austria"
 },
]
]
]

```
{  
    "type": "LTE",  
    "operator": "Hutchison 3G ",  
    "namecn": "奥地利",  
    "nameen": "Austria"  
}  
],  
    "supportDaypass": 0,  
    "openCardFee": 0,  
    "minDay": 3,  
    "singleDiscountDay": 3,  
    "singleDiscount": 1,  
    "maxDiscount": 15,  
    "maxDay": 30,  
    "mustDate": 0,  
    "apiCode": "40-0-3-1-G"  
}  
],  
    "supportCountry": [  
        "Austria"  
    ],  
    "expirydate": null,  
    "countryImageUrlDtoList": [  
        {  
            "imageUrl":  
                "http://img.roamwifi.com/phonelImage/202009//50948d3f-e32a-499e-a38e-c55ce6f9be5  
                2.jpg",  
            "countryCode": 40,  
            "name": "奥地利",  
            "nameEn": "Austria"  
        }  
    ]  
}
```

```
        ]  
    }  
}  
  
fail:  
{ "code": -1, "message": "token expire", "data": ""}  
{ "code": -2, "message": " params is not null ", "data": ""}  
{  
    "code": -30,  
    "message": "sign wrong",  
    "data": "sign wrong"  
}
```

2.5 SIM card ordering (supports: eSIM and physical SIM cards)

2.5.1 Interface Description

Place SIM card order based on the plan information (supports: eSIM and physical SIM cards) and deduct the amount from the account.

2.5.2 Interface constraints

No.	Field name	Types of	Is empty	description
1	token	String	No	
2	skuId	String	No	Product ID
3	priceId	String	No	Package price ID
4	count	String	No	Order quantity
5	daypassDays	String	Yes	The number of days to place an order for a day-pack package; The field is not empty when supportDaypass=1 in the result of getting the list of packages, and the number of days to place an order should satisfy the minDay and maxDay condition restrictions;
6	beginDate	String	Yes	Package if the date is required, the start time is required in the format: MM/dd/yyyy

7	remark	String	Yes	Remark information
8	otherOrderId	String	Yes	External platform order ID
9	otherItemId	String	Yes	External platform line item ID
10	otherPrice	String	Yes	External platform unit price
11	backInfo	String	Yes	0/NULL returns the order number 1.Return to order details 2.Returns the PDF-URL information of the order
12	sign	String	No	Parameter signature
13	dpId	String	Yes	2.13 Get the DP ID of the physical card
14	iccid s	String	Yes	Multiple iccid are separated by commas, and the number is count value.
15	customerEmail	String	No	Customer email address (If it does not conform to the email address format, the email will not be sent;)
16	isSendEmail	String	No	Whether to send email (0/null: not send, 1: send)
17	pdfLanguage	String	No	pdf language (refer to the language code in Appendix 3.2. If it is not in the appendix, English will be used by default)

2.5.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/addEsimOrder

2.5.4 Return constraints

No.	Field name	Types of	Is empt y	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

The content data

Field name	description	Man dat ory	Remark	Types of
orderNum	Order No	Y		String
display	Display name	Y		String
purchaseDate	Order time	Y		String
count	Order quantity	Y		String
price	total price	Y		
status	Order status	Y	0: Normal, paid, - 1: Unpaid, 2: Cancel; 3: Obsolete; 4: Partial unsubscribe;	Integer
renewal	Renewal Order	Y		Boolean
mainOrderNum	Main Order Order Number	Y	If the order is renewed, the order number of the main order will be returned	String
startDate	start date	Y		String
endDate	end date	Y		String

outerOrderid	External order number	Y		String
outerItemId	External line item number	Y		String
renew	Renewal order	Y	0: Main order 1: Renewal order	Integer
priceId	Package price ID	Y		Integer
renewOrderNum	Renewal Order Number Set	Y	If the main order has a renewal order, the number set of the renewal order will be returned	List<String>
cardApiDtoList	Esim Information Set	Y		List<EsimOrderCardApiDto>

Return Format EsimOrderCardApiDto Field Properties

Field name	description	Man dat ory	Remark	Types of
data	Flow data	Y	2GB	String
validity	Valid days of package	Y		Integer
sm_dp_address	sm-dp+ address	Y		String
activationCode		Y		String
mobileNumber	Esim number	Y		String
iccid	ICCID	Y		String
activateBefore	Latest activation time	Y	2022-11-25	String
code	Usage code	Y	Android phones use this code to register esim	String
usedMB	Usage MB	Y	Package day date orders are not supported	String

startDate	Start Date	Y		String
endDate	End date	Y		String
pdfUrl	pdf link	Y		String
dpId		Y		Integer
dpStatus		Y		String
eid		Y		String
apn	APN	Y		String

2. 5. 5 Return Form

```

success:
{
    "code": "0",
    "message": "success",
    "data": "EP20221104000005"
}

{
    "code": "0",
    "message": "success",
    "data": {
        "orderNum": "EP20240124000013",
        "display": "Australia",
        "purchaseDate": "2024-01-24(GMT+8)",
        "count": 1,
        "price": "9.89",
        "status": 0,
        "renewal": true,
        "mainOrderNum": null,
        "startDate": null,
        "endDate": null,
        "outerOrderid": ""
    }
}

```

```
"outerItemId": "",  
"renew": 0,  
"priceId": 9726,  
"renewOrderNum": [],  
"cardApiDtoList": [  
    {  
        "data": "6GB",  
        "validity": 8,  
        "sm_dp_address": "ais.prod.ondemandconnectivity.com",  
        "activationCode": "SEW7JEBMFGPRVSPD",  
        "mobileNumber": "0841823354",  
        "iccid": "934801019851134300",  
        "activateBefore": "2024-02-24(GMT+8)",  
        "code":  
            "LPA:1$ais.prod.ondemandconnectivity.com$SEW7JEBMFGPRVSPD",  
            "usedMB": "0.0",  
            "startDate": null,  
            "endDate": null,  
            "pdfUrl": null,  
            "dpId": 9,  
            "dpStatus": null,  
            "eid": null,  
            "apn": "plus"  
    }  
]  
}  
}  
  
{  
    "code": "0",  
    "message": "success",
```

```
"data": {  
    "orderNum": "EP20240124000014",  
    "display": "Australia",  
    "purchaseDate": "2024-01-24(GMT+8)",  
    "count": 1,  
    "price": "9.89",  
    "status": 0,  
    "renewal": false,  
    "mainOrderNum": null,  
    "startDate": null,  
    "endDate": null,  
    "outerOrderId": "",  
    "outerItemId": "",  
    "renew": 1,  
    "priceId": 9727,  
    "renewOrderNum": [],  
    "cardApiDtoList": [  
        {  
            "data": "6GB",  
            "validity": 8,  
            "sm_dp_address": "ais.prod.ondemandconnectivity.com",  
            "activationCode": "SEW7JEBMFGPRVSPD",  
            "mobileNumber": "0848735511",  
            "iccid": "162984356292255940",  
            "activateBefore": "2024-02-24(GMT+8)",  
            "code":  
                "LPA:1$ais.prod.ondemandconnectivity.com$SEW7JEBMFGPRVSPD",  
            "usedMB": "0.00",  
            "startDate": null,  
            "endDate": null,  
            "pdfUrl":  
    ]}
```

```
"http://img.roamwifi.com/phonelImage/202401//8bd384ba-729d-4d12-bc2e-b1f6908f07  
4b.pdf",  
        "dpId":9,  
        "dpStatus": null,  
        "eid": null,  
        "apn":"plus"  
    }  
]  
}  
}  
  
fail:  
{ "code": -2, "message": " params is not null ","data": ""}  
{ "code": -3, "message": " data not exist ","data": ""}  
{  
    "code": -30,  
    "message": "sign wrong",  
    "data": "sign wrong"  
}
```

2.6 Get order information according to order number

2.6.1 Interface Description

Obtain the details of the order according to the order number returned from the order (renewal), including the relevant information of the esim card. After obtaining the information, you cannot unsubscribe

2.6.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	orderNum	String	No	Order No	
3	sign	String	No	Parameter signature	

2.6.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/getOrderInfo

2.6.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

The content data

Field name	description	Man	Remark	Types of

		dat ory		
orderNum	Order No	Y		String
display	Display name	Y		String
purchaseDate	Order time	Y		String
count	Order quantity	Y		String
price	price	Y		Integer
status	Order status	Y	0: Normal, paid, -1: Unpaid, 2: Cancel; 3: Obsolete; 4: Partial unsubscribe;	Integer
renewal	Renewal Order	Y		Boolean
mainOrderNum	Main Order Order Number	Y	If the order is renewed, the order number of the main order will be returned	String
startDate	start date	Y		String
endDate	end date	Y		String
outerOrderid	External order number	Y		String
outerItemId	External line item number	Y		String
renew	Renewal order	Y	0: Main order 1: Renewal order	Integer
priceId	Package Price Id	Y		Integer
renewOrderNum	Renewal Order Number Set	Y	If the main order has a renewal order, the number set of the renewal order will be returned	List<String>
cardApiDtoList	Esim Information Set	Y		List<CardApiDto>

Return FormatCardApiDtoField Properties

Field name	description	Man dat ory	Remark	Types of
data	Flow data	Y	2GB	String
validity	Valid days of package	Y		Integer
sm_dp_address	sm-dp+ address	Y		String
activationCode		Y		String
mobileNumber	Esim number	Y		String
iccid	ICCID	Y		String
activateBefore	Latest activation time	Y	2022-11-25	String
code	Usage code	Y	Android phones use this code to register esim	String
usedMB	Usage MB	Y	Package day date orders are not supported	String
startDate	Start Date	Y		String
endDate	End date	Y		String
pdfUrl	pdf link	Y		String
dpId		Y		Integer

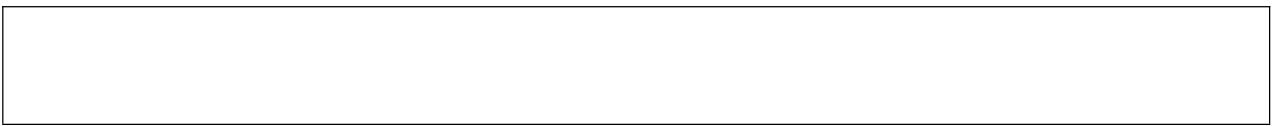
2. 6. 5 Return Form

```

success:
{
    "code": "0",
    "message": "success",
    "data": {
        "orderNum": "EP20221104000005",
        "display": "Japan",
    }
}

```

```
"purchaseDate": "2022-11-04(GMT+8)",  
"count": 1,  
"price": "4.49",  
"status": 0,  
"renewal": false,  
"mainOrderNum": null,  
"renew":0,  
"priceld":9726,  
"renewOrderNum": [],  
"cardApiDtoList": [  
    {  
        "data": "2GB",  
        "validity": 5,  
        "sm_dp_address": "ais.prod.ondemandconnectivity.com",  
        "activationCode": "SEW7JEBMFGPRVSPD",  
        "mobileNumber": "0846108923",  
        "iccid": "453438306768957400",  
        "activateBefore": "2022-11-25",  
        "code":  
            "LPA:1$ais.prod.ondemandconnectivity.com$SEW7JEBMFGPRVSPD",  
            "dpId":9,  
            "dpStatus": null,  
            "eid": null  
    }  
]  
}  
fail:  
{ "code": -2, "message": " params is not null ","data": ""}  
{ "code": -3, "message": " get fail ","data": ""}
```



2.7 Query the eSIM order list

2.7.1 Interface Description

Get the list information of eSIM orders according to the query page and query quantity

2.7.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	startDate	String	No	The start time is based on the order creation time	2022-10-01
3	endDate	String	No	The end time is based on the order creation time	2022-11-20
4	outerOrderId	String	Yes	External order number	
5	outerItemId	String	Yes	External line item number	
6	sign	String	No	Parameter signature	
7	pageSize	Integer	No	Quantity returned per page, 10 by default	

2.7.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/queryOrder

2.7.4 Return constraints

No.	Field name	Types of	Is empt y	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

The content data

Field name	description	Mandatory	Remark	Types of
total	Total Orders	Y		Integer
page	Current Pages	Y		Integer
rows	Order Data Set	Y		List<eSimOrderDto>

Return FormateSimOrderDto Field Properties

Field name	description	Mandatory	Remark	Types of
id	Order Id	Y		Integer
orderid	Order No	Y		String
orderType	Order Type	Y	0:BPM Order、1:interface Order; 2: sale Order	Integer
num	Order quantity	Y		Integer
price	Unit Price	Y		String
totle	Total price	Y		String
subTime	Order creation time	Y	"2022-11-07 16:43:19"	String

status	Status	Y	0: Normal, paid, -1: Unpaid, 2: Cancel; 3: Obsolete; 4: Partial unsubscribe;	Integer
dNum	amount of downloads		Null means not downloaded	
flowType	Renewable	Y	0=yes, 1=no	Integer
otype				String
ostatus				String
count				String
pflag	If Main order	Y		Boolean
packageName	Package name	Y	Japan	String
expireDate	Package expiration time	Y	"2023-02-07"	String
daypassDay	Number of days to place an order for a package day	Y		Integer
renew	Renewal order	Y	0: Main order 1: Renewal order	Integer
outerOrderid	External order number	Y		String
outerItemId	External line item number	Y		String

2.7.5 Return Form

```

success:
{
    "code": "0",
    "message": "success",
    "data": {
        "total": 154,
    }
}

```

```
"page": 2,  
"rows": [  
    {  
        "id": 258,  
        "orderid": "EP20220906000002",  
        "orderType": 0,  
        "num": 1,  
        "price": "15.00",  
        "totle": "15.00",  
        "subTime": "2022-09-06 10:21:29",  
        "status": 0,  
        "dNum": "1",  
        "flowType": "1",  
        "downpass": "625365",  
        "pflag": false,  
        "renew": 0,  
        "outerOrderId": "xxxxxxxxxx",  
        "outerItemId": "xxxxxxxxxx"  
    },  
    {  
        "id": 257,  
        "orderid": "EP20220906000001",  
        "orderType": 0,  
        "num": 3,  
        "sTime": "",  
        "eTime": "",  
        "price": "15.00",  
        "totle": "45.00",  
        "subTime": "2022-09-06 10:16:08",  
        "status": 2,  
        "dNum": ""},
```

```
"flowType": "1",
"downpass": "",
"otype": null,
"ostatus": null,
"count": null,
"pflag": false,
"packetName": null,
"expireDate": null,
"renew":1,
"outerOrderId":"xxxxxxxxxx",
"outerItemId":"xxxxxxxxxx"
}
]
}
}
fail:
{
  "code": -2, "message": " params is not null ","data": ""}
{
  "code": -3, "message": " order not support renew ","data": ""}
}
```

2.8 Verify resources

2.8.1 Interface Description

Check whether card resources are sufficient based on skuid and priceid.

2.8.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	skuid	String	No	sku encoding	
3	priceid	String	No	price encoding	
4	count	String	No	Order quantity	
5	sign	String	No	Parameter signature	

2.8.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/verifyResource

2.8.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

2. 8. 5 Return Form

```
success:  
Adequate resources  
{  
    "code": "0",  
    "message": "success",  
    "data": 1  
}  
Lack of resources  
{  
    "code": "0",  
    "message": "success",  
    "data": 0  
}  
fail:  
{ "code": -1, "message": "token expire", "data": "" }  
{ "code": -2, "message": " params is not null ", "data": "" }  
{ "code": 3, "message": " data not exist ", "data": "" }  
{  
    "code": -30,  
    "message": "sign wrong",  
    "data": "sign wrong"  
}
```

2.9 Get the eSIM card information of the order

2.9.1 Interface Description

Obtain the card information of the order based on the order number, and return different data formats based on different parameters..

2.9.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	orderNum	String	No		
3	backInfo	String	Yes	0/NULL returns the order number 1.Return to order details 2.Return the PDF-URL information of the order	
4	sign	String	No	Parameter signature	

2.9.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/reDownOrderPDF

2.9.4 Return constraints

No.	Field name	Types of	Is	description
-----	------------	----------	----	-------------

			empty	
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

The content data

Field name	description	Mandatory	Remark	Types of
orderNum	Order No	Y		String
display	Display name	Y		String
purchaseDate	Order time	Y		String
count	Order quantity	Y		String
price	total price	Y		
status	Order status	Y	0: Normal, paid, -1: Unpaid, 2: Cancel; 3: Obsolete; 4: Partial unsubscribe;	Integer
renewal	Renewal Order	Y		Boolean
mainOrderNum	Main Order Order Number	Y	If the order is renewed, the order number of the main order will be returned	String
startDate	start date	Y		String
endDate	end date	Y		String
outerOrderid	External order number	Y		String
outerItemId	External line item number	Y		String
renewOrderNum	Renewal Order Number Set	Y	If the main order has a renewal order, the number set of the renewal order	List<String>

			will be returned	
cardApiDtoList	Esim Information Set	Y		List< EsimOrderCardApiDto>

Return Format EsimOrderCardApiDto Field Properties

Field name	description	Man dat ory	Remark	Types of
data	Flow data	Y	2GB	String
validity	Valid days of package	Y		Integer
sm_dp_address	sm-dp+ address	Y		String
activationCode		Y		String
mobileNumber	Esim number	Y		String
iccid	ICCID	Y		String
activateBefore	Latest activation time	Y	2022-11-25	String
code	Usage code	Y	Android phones use this code to register esim	String
usedMB	Usage MB	Y	Package day date orders are not supported	String
startDate	Start Date	Y		String
endDate	End date	Y		String
pdfUrl	pdf link	Y		String
dpId		Y		Integer
dpStatus		Y		String
eid		Y		String
apn	APN	Y		String

2. 9. 5 Return Form

```
success:  
{  
    "code": "0",  
    "message": "success",  
    "data": "EP20221104000005"  
}  
{  
    "code": "0",  
    "message": "success",  
    "data": {  
        "orderNum": "EP20240111000002",  
        "display": "Global 125 countries",  
        "purchaseDate": "2024-01-11(GMT+8)",  
        "count": 1,  
        "price": "22.49",  
        "status": 0,  
        "renewal": true,  
        "mainOrderNum": null,  
        "startDate": null,  
        "endDate": null,  
        "outerOrderid": null,  
        "outerItemId": null,  
        "renewOrderNum": [],  
        "cardApiDtoList": [  
            {  
                "data": "6GB",  
                "validity": 15,  
                "sm_dp_address": "rsp-eu.redteamobile.com",  
                "activationCode": "5CB2378D93664F30B21A48008F80B64E",  
                "mobileNumber": "0659011389",  
            }  
        ]  
    }  
}
```

```
        "iccid": "2330020025190",
        "activateBefore": "2024-06-22(GMT+8)",
        "code": null,
        "LPA:1$rsp-eu.redteamobile.com$5CB2378D93664F30B21A48008F80B64E",
        "usedMB": "0.0",
        "startDate": null,
        "endDate": null,
        "pdfUrl": null,
        "dpId": 9,
        "dpStatus": null,
        "eid": null,
        "apn": "plus"
    }
]
}
}

{
    "code": "0",
    "message": "success",
    "data": {
        "orderNum": "EP20240119000007",
        "display": "Qatar",
        "purchaseDate": "2024-01-19(GMT+8)",
        "count": 1,
        "price": "9.89",
        "status": 0,
        "renewal": false,
        "mainOrderNum": null,
        "startDate": null,
        "endDate": null
    }
}
```

```
"outerOrderid": null,  
"outerItemId": null,  
"renewOrderNum": [],  
"cardApiDtoList": [  
    {  
        "data": "6GB",  
        "validity": 8,  
        "sm_dp_address": "ais.prod.ondemandconnectivity.com",  
        "activationCode": "SEW7JEBMFGPRVSPD",  
        "mobileNumber": "0849802807",  
        "iccid": "694386261666443800",  
        "activateBefore": "2024-02-19(GMT+8)",  
        "code":  
            "LPA:1$ais.prod.ondemandconnectivity.com$SEW7JEBMFGPRVSPD",  
            "usedMB": "0.00",  
            "startDate": null,  
            "endDate": null,  
            "pdfUrl":  
                "http://img.roamwifi.com/phonelImage/202401//8b2755d1-34ac-42ea-8816-30417e2452  
02.pdf",  
            "dpId": 9,  
            "dpStatus": null,  
            "eid": null,  
            "apn": "plus"  
    }  
]  
}  
}  
  
fail:
```

```
{ "code": -1, "message": "token expire ","data": ""}  
 { "code": -2, "message": " params is not null ","data": ""}  
 { "code": -3, "message": "reDownOrderPDF fail ","data": ""}  
 {"code": 3, "message": " data not exist ","data": ""}  
 { "code": 4, "message": "Order Status Abnormal","data": ""}  
  
 {  
     "code": -30,  
     "message": "sign wrong",  
     "data": "sign wrong"  
 }
```

2.10 Send PDF email

2.10.1 Interface Description

Specify the order number and associated card to send a PDF email to the specified email address.

2.10.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	type	String	No	email: send email link: Return to download link	
3	orderId	String	No	order number	
4	iccid	String	Yes	Empty: Returns all cards associated with the order; specify iccid, multiple iccids are available, splicing	
5	email	String	Yes	Mail	
6	saveType	Integer	Yes	0/NULL: Do not save the email address 1: Save the email (the existing email)	

				will be replaced)	
7	sign	String	No	Parameter signature	

2. 10. 3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/handlerEsimPdf

2. 10. 4 Return constraints

No.	Field name	Types of	Is empt y	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

2. 10. 5 Return Form

```

success:
{
    "code": "0",
    "message": "Successful return of pdf link",
    "data": {
        "9000024041590216":
        "http://img.roamwifi.com/phonelImage/202404//5072a173-a360-49e5-9be1-ff93e0bd48
        0b.pdf",
        "9000024041549678":
        "http://img.roamwifi.com/phonelImage/202404//1852e23a-8f1a-4aed-9195-b654b44b11
        59.pdf"
    }
}

```

```
{  
    "code": "0",  
    "message": "PDF has been sent to the email",  
    "data": null  
}  
  
fail:  
{ "code": -1, "message": "token expire","data": ""}  
{ "code": -2, "message": " params is not null ","data": ""}  
{ "code": -3, "message": " Format mismatch","data": ""}  
{ "code": 3, "message": " data not exist ","data": ""}  
{ "code": 4, "message": "Order Status Abnormal","data": ""}  
{ "code": -30,"message": "sign wrong","data": "sign wrong"}  
{ "code": 99, "message": "PdfUrl generation failure for esim","data": ""}  
{ "code": 99, "message": "order 4574 not exist","data": ""}  
{ "code": 99, "message": " order 4574 no self","data": ""}  
{ "code": 99, "message": " Cannot download in abnormal state ","data": ""}  
{ "code": 99, "message": "order detail 4574 not exist","data": ""}  
{ "code": 99, "message": "esim 9000024041549678 not exist","data": ""}  
{ "code": 99, "message": "DPUrl parsing failure for esim","data": ""}  
{ "code": 99, "message": "pdfUrl upload failed","data": ""}  
{ "code": 99, "message": "Temporary file exception","data": ""}
```

2.11 Unsubscribe from SIM card order (supports: eSIM and physical SIM cards)

2.11.1 Interface Description

Unsubscribe from SIM card order based on the order number and ICCID
(supports: eSIM and physical SIM cards).

2.11.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	orderNum	String	No	order number	
3	iccid	String	No	iccid, used for multiple iccid, separated	
4	remark	String	Yes	remark	
5	sign	String	No	Parameter signature	

2.11.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/refundOrder

2.11.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message

3	data	String	No	response data
---	------	--------	----	---------------

2. 11. 5 Return Form

```
success:  
{  
    "code": "0",  
    "message": "success",  
    "data": null  
}  
  
fail:  
{ "code": -1, "message": "token expire", "data": "" }  
{ "code": -2, "message": " params is not null ", "data": "" }  
{ "code": 3, "message": " data not exist ", "data": "" }  
{ "code": 22, "message": "Non-personal orders", "data": "" }  
{  
    "code": -30,  
    "message": "sign wrong",  
    "data": "sign wrong"  
}
```

2.12 SIM renewal (supports: eSIM and physical SIM card renewal)

2.12.1 Interface Description

Renew the plan based on the order number and ICCID (supports: eSIM and physical SIM cards).

2.12.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	orderNum	String	Yes	orderNum, and iccid cannot be empty at the same time.	
3	iccid	String	Yes	orderNum, and iccid cannot be empty at the same time.	
4	daypassDays	String	Yes	The number of days to place an order for a package; this field is not empty when the package list interface gets supportDaypass=1;	
5	skuId	String	No	Product ID	
6	priceId	String	No	Package price ID	
7	remark	String	Yes	Remark information	
8	otherOrderId	String	Yes	External platform order ID	
9	otherItemId	String	Yes	External platform line item ID	
10	otherPrice	String	Yes	External platform unit price	

11	backInfo	String	Yes	0/NULL returns the order number 1.Return to order details 2.Returns the PDF-URL information of the order	
12	pdfLanguage	String	No	pdf language (refer to the language code in Appendix 3.2. If it is not in the appendix, English will be used by default)	
13	sign	String	No	Parameter signature	

2.12.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/renewCard

2.12.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	Order No

The content data

Field name	description	Man dat ory	Remark	Types of
orderNum	Order No	Y		String
display	Display name	Y		String
purchaseDate	Order time	Y		String

count	Order quantity	Y		String
price	total price	Y		
status	Order status	Y	0: Normal, paid, -1: Unpaid, 2: Cancel; 3: Obsolete; 4: Partial unsubscribe;	Integer
renewal	Renewal Order	Y		Boolean
mainOrderNum	Main Order Order Number	Y	If the order is renewed, the order number of the main order will be returned	String
startDate	start date	Y		String
endDate	end date	Y		String
outerOrderid	External order number	Y		String
outerItemId	External line item number	Y		String
renew	Renewal order	Y	0: Main order 1: Renewal order	Integer
priceId	Package price ID	Y		Integer
renewOrderNum	Renewal Order Number Set	Y	If the main order has a renewal order, the number set of the renewal order will be returned	List<String>
cardApiDtoList	Esim Information Set	Y		List<EsimOrderCardApiDto>

Return Format EsimOrderCardApiDto Field Properties

Field name	description	Mandatory	Remark	Types of
data	Flow data	Y	2GB	String

validity	Valid days of package	Y		Integer
sm_dp_address	sm-dp+ address	Y		String
activationCode		Y		String
mobileNumber	Esim number	Y		String
iccid	ICCID	Y		String
activateBefore	Latest activation time	Y	2022-11-25	String
code	Usage code	Y	Android phones use this code to register esim	String
usedMB	Usage MB	Y	Package day date orders are not supported	String
startDate	Start Date	Y		String
endDate	End date	Y		String
pdfUrl	pdf link	Y		String
dpId		Y		Integer
dpStatus		Y		String
eid		Y		String
apn	APN	Y		String

2. 12. 5 Return Form

```

success:
{
    "code": "0",
    "message": "success",
    "data": "EP20221104000005"
}
{
    "code": "0",
    "message": "success",

```

```
"data": {  
    "orderNum": "EP20240124000013",  
    "display": "Australia",  
    "purchaseDate": "2024-01-24(GMT+8)",  
    "count": 1,  
    "price": "9.89",  
    "status": 0,  
    "renewal": true,  
    "mainOrderNum": null,  
    "startDate": null,  
    "endDate": null,  
    "outerOrderId": "",  
    "outerItemId": "",  
    "renew": 0,  
    "priceId": 9726,  
    "renewOrderNum": [],  
    "cardApiDtoList": [  
        {  
            "data": "6GB",  
            "validity": 8,  
            "sm_dp_address": "ais.prod.ondemandconnectivity.com",  
            "activationCode": "SEW7JEBMFGPRVSPD",  
            "mobileNumber": "0841823354",  
            "iccid": "934801019851134300",  
            "activateBefore": "2024-02-24(GMT+8)",  
            "code":  
                "LPA:1$ais.prod.ondemandconnectivity.com$SEW7JEBMFGPRVSPD",  
                "usedMB": "0.0",  
                "startDate": null,  
                "endDate": null,  
                "pdfUrl": null,  
        }  
    ]  
}
```

```
        "dpId":9,
        "dpStatus": null,
        "eid": null,
        "apn":"plus"
    }
]
}
}

{
  "code": "0",
  "message": "success",
  "data": {
    "orderNum": "EP20240124000014",
    "display": "Australia",
    "purchaseDate": "2024-01-24(GMT+8)",
    "count": 1,
    "price": "9.89",
    "status": 0,
    "renewal": false,
    "mainOrderNum": null,
    "startDate": null,
    "endDate": null,
    "outerOrderid": "",
    "outerItemId": "",
    "renew":1,
    "priceld":9727,
    "renewOrderNum": [],
    "cardApiDtoList": [
      {
        "data": "6GB",

```

```
"validity": 8,  
    "sm_dp_address": "ais.prod.ondemandconnectivity.com",  
    "activationCode": "SEW7JEBMFGPRVSPD",  
    "mobileNumber": "0848735511",  
    "iccid": "162984356292255940",  
    "activateBefore": "2024-02-24(GMT+8)",  
    "code":  
"LPA:1$ais.prod.ondemandconnectivity.com$SEW7JEBMFGPRVSPD",  
        "usedMB": "0.00",  
        "startDate": null,  
        "endDate": null,  
        "pdfUrl":  
"http://img.roamwifi.com/phoneImage/202401//8bd384ba-729d-4d12-bc2e-b1f6908f07  
4b.pdf",  
        "dpId":9,  
        "dpStatus": null,  
        "eid": null,  
        "apn": "plus"  
    }  
]  
}  
}  
fail:  
{ "code": -2, "message": " params is not null ", "data": ""}  
{"code": -3, "message": " data not exist ", "data": ""}
```

2.13 Physical SIM- Get supported physical SIM DP information

2.13.1 Interface Description

Get supported physical SIM DP information.

2.13.2 Interface constraints

No.	Field name	Types of	Is empty	description
1	token	String	No	
2	sign	String	No	Parameter signature

2.13.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/getPhysicalSIMDpInfo

2.13.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	DP info List: List<EsimRealOperatorDt o>

Return Format EsimRealoperatorDto Field Attributes

Field name	description	remark	Types of
id	DP ID		Integer
realName	name		String
iconUrl	Show picture		String

	address		
--	---------	--	--

2. 13. 5 Return Form

```
success:  
{  
    "code": "0",  
    "message": "success",  
    "data": [  
        {  
            "id": 9,  
            "realName": "FIROAM GLOBAL",  
            "iconUrl":  
                "http://img.roamwifi.com/phoneImage/202405//a9675e73-bd22-4b1a-a1da-0d964f422ba2.jpg"  
        }  
    ]  
}
```

2.14 Physical SIM- Get information about SKUs

supported by DP

2.14.1 Interface Description

Get information about SKUs supported by DP.

2.14.2 Interface constraints

No.	Field name	Types of	Is empty	description	Example
1	token	String	N		
2	dpId	Integer	N	2.12 get the dp id.	
3	sign	String	N	Parameter signature	

2.14.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/getDpSupportSkulInfo

2.14.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	Sku List

data field attributes

Field name	description	Types of
skuid	Unique identifier for sku	Integer
display	sku display name	String

countryCode	Country code	String
-------------	--------------	--------

2. 14. 5 Return Form

```
success:  
{  
    "code": "0",  
    "message": "success",  
    "data": [  
        {  
            "skuid": 124,  
            "display": "Asia 30",  
            "countryCode": "99115"  
        },  
        {  
            "skuid": 123,  
            "display": "Asia 4",  
            "countryCode": "99112"  
        },  
        .....  
    ]  
}
```

2.15 Physical SIM- Get information about SKUs

supported by DP - grouped by continent

2.15.1 Interface Description

Get information about SKUs supported by DP - grouped by continent.

2.15.2 Interface constraints

No.	Field name	Types of	Is empty	description
1	token	String	No	
2	dpId	Integer	No	2.12 get the dp id
3	sign	String	No	Parameter signature

2.15.3 Interface nam

Production: https://bpm.roamwifi.hk/api_esim/getDpSupportSkulInfoByGroup

2.15.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	SKU map: Map<String, List<BpmESIMSKUNewDt o>>

Key value for grouping information details:

Key	description

Common	Generic region or country SKUs, where SKUs will contain multiple countries
Asia	SKUs for countries or regions in Asia
Europe	SKUs for countries or regions in Europe
Africa	SKUs for countries or regions in Africa
Latin America	SKUs for countries or regions in Latin America
North America	SKUs for countries or regions in North America
Oceania	SKUs for countries or regions in Oceania

Returns the BpmESIMSKUNewDto property of the FormatValue field.

Field name	description	Types of
skuid	Unique identifier for sku	String
countrycode	Country Code	String
imageUrl	Image address	String
display	SKU name	String
note	SKU discription	String
search	SKU search criteria	String
continentCode	continent number	String

2.15.5 Return Form

```

success:
{
    "code": "0",
    "message": "success",
    "data": {
        "Common": [
            {
                "skuid": 156,
                "countryCode": 99918,

```

```
        "imageUrl":  
        "http://img.roamwifi.com/phonelImage/202009//ec149df0-e4af-478e-8808-1b5c77e6f9b  
4.jpg",  
        "display": "Africa",  
        "note": null,  
        "search": "Algeria,Republic of the  
Congo,DRC,Ghana,Gabon,Kenya,Reunion,Madagascar,Malawi,Morocco,Nigeria,Tanzania,T  
unisia,Uganda,Chad",  
        "continentCode": 7  
    },  
    .....  
],  
"Asia": [  
    {  
        "skuid": 40,  
        "countryCode": 158,  
        "imageUrl":  
        "http://img.roamwifi.com/phonelImage/202009//5d1441b1-ff81-4104-812a-31124ccb45  
5c.jpg",  
        "display": "China.Taiwan",  
        "note": null,  
        "search": "China.Taiwan",  
        "continentCode": 1  
    },  
    .....  
],  
.....  
}
```

2.16 Physical SIM- Get the list of supported packages based on dpId and skuid

2.16.1 Interface Description

Get the list of supported packages based on dpId and skuid.

2.16.2 Interface constraints

No.	Field name	Types of	Is empty	description
1	token	String	No	
2	dpId	Integer	No	2.12 get the dp id
3	skuId	String	No	Unique identifier for sku
4	sign	String	No	Parameter signature

2.16.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/getDpSkuSupportPackageInfo

2.16.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

data field attributes

Field name	description	Types of
skuid	Unique identifier for sku	String
detailId		Integer

countrycode	Country Code	String
imageUrl	Image address	String
display	SKU Chinese Name	String
displayEn	SKU English Name	String
esimPackageVoList	Detailed Package Collection	List<EsimPackageVo>
expirydate	expiry date	Date
countryImageUrlDtoList	List of country icon information	List<CountryImageUrlDto>

Return Format EsimPackageVo Field Attributes

Field name	description	Types of
flows	Number of package traffic	Integer
days	Number of days the package is valid	Integer
unit	unit of flow: GB/MB	String
price	Package Price	Double
priceid	Package Unique Identification	Integer
flowType	Renewable or not: 0 – Yes, 1 – No	Integer
showName	Package name	String
pid		Integer
premark	Package Description Info	String
networkVos	network support	List<NetworkVo>
supportDaypass	Package Type: 0–Normal Package, 1–Daypass Package, 2–Enumeration packages	Integer
openCardFee	opening fee	Integer
minDay	Minimum number of days, Package Type = 2, required field	Integer
singleDiscountDay	Number of days for single discount	Integer
singleDiscount	Single Discount	Integer
maxDiscount	Maximum Discount	Integer

maxDay	Maximum number of days	Integer
mustDate	Date required: 1-Required	Integer
apiCpde	Unique identifier for the package	Y

Return Format CountryImageUrlDto Field Properties

Field name	description	Types of
imageUrl	Country icon address	String
countrycode	Country Code	Integer
name	name	String
nameEn	English Name	String

Return Format NetworkVo Field Properties

Field name	description	Types of
type	Network type: 0-3G 1-LTE 2-5G	String
operator	operator	String
namecn	name	String
countryCode	Country Code	Integer

2. 16. 5 Return Form

```

success:
{
    "code": "0",
    "message": "success",
    "data": {
        "skuid": 34,
        "detailld": null,
        "countrycode": "586",
        "imageUrl":
"http://img.roamwifi.com/phonelimage/202009//0cb39400-da92-4048-a14d-d1e3c540cb"
}

```

d5.jpg",
 "display": "巴基斯坦",
 "displayEn": "Pakistan",
 "esimPackageVoList": [
 {
 "flows": 1,
 "days": 3,
 "unit": "GB",
 "price": 1.43,
 "priceid": 6042,
 "flowType": 0,
 "countryImageUrlDtoList": null,
 "showName": "1GB/3days",
 "pid": 918,
 "premark": "Plan type: Data only
\nAPN: internet
\nActivation Policy: The validity period starts when you turn on roaming and the eSIM connects to any supported network.
\nCancellation policy: Order can not be cancelled or refunded once the \"install eSIM\" button is clicked.",
 "overlay": null,
 "expireDays": null,
 "networkVos": [
 {
 "countryCode": 586,
 "type": "LTE",
 "operator": "Mobilink",
 "name": "Pakistan"
 }
],
 "supportDaypass": 0,
 "openCardFee": 0,
 "minDay": 3,

```
        "singleDiscountDay": 3,  
        "singleDiscount": 1,  
        "maxDiscount": 15,  
        "maxDay": 30,  
        "mustDate": 0,  
        "apiCode":"586-0-3-1-G"  
    },  
    .....  
],  
"supportCountry": null,  
"expirydate": null,  
"countryImageUrlDtoList": [  
    {  
        "imageUrl":  
            "http://img.roamwifi.com/phoneImage/202404//9d8145c1-49d6-43e7-a035-82bc6ff1724  
5.jpg",  
        "countryCode": 586,  
        "name": "巴基斯坦",  
        "nameEn": "Pakistan"  
    }  
]  
}  
}
```

2.17 Get SKUs supported by ICCID

2.17.1 Interface Description

Get SKUs supported by ICCID.

2.17.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	iccid	String	No		
3	sign	String	No	Parameter signature	

2.17.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/getICCIDSupportSkulInfo

2.17.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

The content data

Field name	description	Mandatory	Remark	Types of
skuid	Sku coding	Y		Integer
display	Sku display name	Y		String

countryCode	Country code	Y	String
-------------	--------------	---	--------

2. 17. 5 Return Form

```
success: {"code": "0","message": "success",
  "data": [
    {
      "skuid": 124,
      "display": "Asia 30",
      "countryCode": "99115"
    },
    {
      "skuid": 123,
      "display": "Asia 4",
      "countryCode": "99112"
    },
    .....
  ]
}

fail: {"code": -1,"message": "token expire","data": ""}
```

2.18 Get SKU groups supported by ICCID

2.18.1 Interface Description

Get SKU groups supported by ICCID.

2.18.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	iccid	String	No		
3	sign	String	No	Parameter signature	

2.18.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/getICCIDSKUInfoByGroup

2.18.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

data field attribute

Field name	description	Mandatory	Remark	Types of

continent	continent name	Y		String
data	sku collection	Y		Map<String, List<BpmESIMSkunewDto>>

Returns the BpmESIMSkunewDto attribute of the format data.data field

Field name	description	Mandatory	Remark	Types of
skuid	sku encoding	Y		String
countrycode	country code	Y		String
imageUrl	Product icon	Y		String
display	Product Chinese name	Y		String
note	product description	Y		String
search	search condition	Y		String
continentCode	continent number	Y		String

2. 18. 5 Return Form

```

success:
{
    "code": "0",
    "message": "success",
    "data": {
        "continent": [
            "Common",

```

```
"Asia",
...,
],
"data": {
    "Common": [
        {
            "skuid": 123,
            "countryCode": 99112,
            "imageUrl": "http://img.roamwifi.com/phonelImage/202309//92529d82-4f15-445d-83ab-0b11bac40faf.jpg",
            "display": "Asia 8 countries",
            "note": "Korea,Cambodia,Malaysia,Thailand,Singapore,Indonesia,Vietnam, Japan",
            "search": "Korea,Cambodia,Malaysia,Japan,Thailand,Singapore,Indonesia,Vietnam",
            "continentCode": 7
        },
        ...
    ],
    "Asia": [
        {
            "skuid": 26,
            "countryCode": 392,
            "imageUrl": "http://img.roamwifi.com/phonelImage/202009//0ac9086d-8ca4-4e60-b8d1-2504ca3ada75.jpg",
            "display": "Japan",
            "note": "Japan",
            "search": "Japan",
            "continentCode": 1
        },
        ...
    ]
}
```

```
...],
...
},
fail:
{"code": -1, "message": "token expire", "data": ""},
{
    "code": -30,
    "message": "sign wrong",
    "data": "sign wrong"
}
```

2.19 Get the package details supported by the SKU supported by ICCID

2.19.1 Interface Description

Get the package details supported by the SKU supported by ICCID

2.19.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	iccid	String	No		
3	skuId	String	No		
4	sign	String	No	Parameter signature	

2.19.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/getICCIDSKUSupportPackageInfo

2.19.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

The content data

Field name	description	Man dat ory	Remark	Types of
skuid	Sku's code	Y		String
detailId	Order details id			Integer
countrycode	Country code	Y		String
imageUrl	Product icon			String
display	Product name in Chinese			String
displayEn	Product name in English			String
esimpackageDtoList	esim package collection			List<EsimPackageDto>
supportCountry	Supported Countries			List<String>
expirydate	Expired time			Date
countryImageUr1DtoList	List of country icon information			List<CountryImageUr1Dto>

Return Format EsimPackageDto Field Properties

Field name	description	Man dat ory	Remark	Types of
flows	Number of Package Traffic	Y		Integer
days	Days of validity of package	Y		Integer
unit	Traffic unit	Y	GB/MB	String
price	Package Price	Y		Double
priceid	Unique	Y		Integer

	Identification			
flowType	Renewable or not	Y	0 – renewable, 1 – non-renewable	Integer
countryImageUrlToList	List of Country Icons	Y		List<CountryImageUrlDto>
showName	Display Name	Y		String
pid		Y		Integer
premark	descriptive	Y		String
expireDays	Expired Policy	Y	0 – effective immediately, non-zero – expires after n days, or 30 days a month in the case of months.	Integer
networkDtoList	Network Support	Y		List<NetworkDto>
supportDaypass	Whether the day package	Y	0–Regular package, 1–Inclusive package, 2–Enum package	Integer
openCardFee	Card Opening Fee	Y		Integer
minDay	Minimum number of days	Y		Integer
singleDiscountDay	Number of days for word discount	Y		Integer
singleDiscount	Word Discount	Y		Integer
maxDiscount	Maximum Discount	Y		Integer
maxDay	Maximum Days	Y		Integer
mustDate	Date required or not	Y	1–Required	Integer

apiCpde	Unique identifier for the package	Y	99911-0-?-500-M-D	String
---------	-----------------------------------	---	-------------------	--------

Return Format CountryImageUrlDto Field Properties

Field name	description	Man dat ory	Remark	Types of
imageUrl	Country Icon Links	Y		String
countrycode	Country Code	Y		Integer
name	Country Name	Y		String
nameEn	Country Name (English)	Y		String

Return Format CountryImageUrlDto Field Properties

Field name	description	Man dat ory	Remark	Types of
type	Network Type	Y	0-3G 1-LTE 2-5G	String
operator	Carrier	Y		String
namecn	Country Name	Y		String
nameen	Country Name (English)	Y		String

2.19.5 Return Form

success:

{

```
"code": "0",
"message": "成功",
"data": {
    "skuid": 45,
    "detailld": null,
    "countrycode": "40",
    "imageUrl":
"http://img.roamwifi.com/phonelImage/202009//af0c08eb-6f95-479d-843c-0638e1fc32fa
.jpg",
    "display": "奥地利",
    "displayEn": "Austria",
    "esimPackageDtoList": [
        {
            "flows": 1,
            "days": 3,
            "unit": "GB",
            "price": 2.66,
            "priceid": 441,
            "flowType": 0,
            "countryImageUrlDtoList": null,
            "showName": "",
            "pid": 52,
            "premark": "Plan type: Data only<br>\nAPN: internet<br>\nActivation Policy: The validity period starts when you turn on roaming and the eSIM connects to any supported network.<br>\nCancellation policy: Order can not be cancelled or refunded once the \"install eSIM\" button is clicked.",
            "overlay": 1,
            "expireDays": 0,
            "networkDtoList": [
                {
                    "type": "LTE",

```

```
        "operator": "A1.net",
        "namecn": "奥地利",
        "nameen": "Austria"
    },
    {
        "type": "LTE",
        "operator": "Hutchison 3G ",
        "namecn": "奥地利",
        "nameen": "Austria"
    }
],
"supportDaypass": 0,
"openCardFee": 0,
"minDay": 3,
"singleDiscountDay": 3,
"singleDiscount": 1,
"maxDiscount": 15,
"maxDay": 30,
"mustDate": 0,
"apiCode": "40-0-3-1-G"
}
],
"supportCountry": [
    "Austria"
],
"expirydate": null,
"countryImageUrlDtoList": [
{
    "imageUrl":
        "http://img.roamwifi.com/phonelimage/202009//50948d3f-e32a-499e-a38e-c55ce6f9be5
2.jpg",
}
```

```
        "countryCode": 40,  
        "name": "奥地利",  
        "nameEn": "Austria"  
    }  
]  
}  
}  
  
fail:  
{ "code": -1, "message": "token expire", "data": ""}  
{ "code": -2, "message": " params is not null ", "data": ""}  
{  
    "code": -30,  
    "message": "sign wrong",  
    "data": "sign wrong"  
}
```

2.20 Physical SIM- Get the list of supported packages based on dpId

2.20.1 Interface Description

Get the list of supported packages based on dpId.

2.20.2 Interface constraints

No.	Field name	Types of	Is empty	description
1	token	String	No	
2	dpId	Integer	No	2.12 get the dp id
3	sign	String	No	Parameter signature

2.20.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/getDpSupportPackageInfo

2.20.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

data field attributes

Field name	description	Types of
skuid	Unique identifier for sku	String
detailId		Integer
countrycode	Country Code	String

imageUrl	Image address	String
display	SKU Chinese Name	String
displayEn	SKU English Name	String
esimPackageVoList	Detailed Package Collection	List<EsimPackageVo>
expirydate	expiry date	Date
countryImageUrlDtoList	List of country icon information	List<CountryImageUrlDto>

Return Format EsimPackageVo Field Attributes

Field name	description	Types of
flows	Number of package traffic	Integer
days	Number of days the package is valid	Integer
unit	unit of flow: GB/MB	String
price	Package Price	Double
priceid	Package Unique Identification	Integer
flowType	Renewable or not: 0 – Yes, 1 – No	Integer
showName	Package name	String
pid		Integer
premark	Package Description Info	String
networkVos	network support	List<NetworkVo>
supportDaypass	Package Type: 0-Normal Package, 1-Daypass Package, 2-Enumeration packages	Integer
openCardFee	opening fee	Integer
minDay	Minimum number of days, Package Type = 2, required field	Integer
singleDiscountDay	Number of days for single discount	Integer
singleDiscount	Single Discount	Integer
maxDiscount	Maximum Discount	Integer
maxDay	Maximum number of days	Integer

mustDate	Date required: 1=Required	Integer
apiCpde	Unique identifier for the package	Y

Return Format CountryImageUrlDto Field Properties

Field name	description	Types of
imageUrl	Country icon address	String
countrycode	Country Code	Integer
name	name	String
nameEn	English Name	String

Return Format NetworkVo Field Properties

Field name	description	Types of
type	Network type: 0-3G 1-LTE 2-5G	String
operator	operator	String
namecn	name	String
countryCode	Country Code	Integer

2. 20. 5 Return Form

```

success:
{
    "code": "0",
    "message": "success",
    "data": {
        "skuid": 34,
        "detailld": null,
        "countrycode": "586",
        "imageUrl":
"http://img.roamwifi.com/phonelImage/202009//0cb39400-da92-4048-a14d-d1e3c540cb
d5.jpg",
    }
}

```

```
"display": "巴基斯坦",
"displayEn": "Pakistan",
"esimPackageVoList": [
    {
        "flows": 1,
        "days": 3,
        "unit": "GB",
        "price": 1.43,
        "priceid": 6042,
        "flowType": 0,
        "countryImageUrlDtoList": null,
        "showName": "1GB/3days",
        "pid": 918,
        "premark": "Plan type: Data only<br>\nAPN: internet<br>\nActivation Policy: The validity period starts when you turn on roaming and the eSIM connects to any supported network.<br>\nCancellation policy: Order can not be cancelled or refunded once the \"install eSIM\" button is clicked.",
        "overlay": null,
        "expireDays": null,
        "networkVos": [
            {
                "countryCode": 586,
                "type": "LTE",
                "operator": "Mobilink",
                "name": "Pakistan"
            }
        ],
        "supportDaypass": 0,
        "openCardFee": 0,
        "minDay": 3,
        "singleDiscountDay": 3,
    }
]
```

```
        "singleDiscount": 1,  
        "maxDiscount": 15,  
        "maxDay": 30,  
        "mustDate": 0,  
        "apiCode":"586-0-3-1-G"  
    },  
    .....  
],  
"supportCountry": null,  
"expirydate": null,  
"countryImageUrlDtoList": [  
    {  
        "imageUrl":  
"http://img.roamwifi.com/phonelImage/202404//9d8145c1-49d6-43e7-a035-82bc6ff1724  
5.jpg",  
        "countryCode": 586,  
        "name": "巴基斯坦",  
        "nameEn": "Pakistan"  
    }  
]  
}  
}
```

2.21 Get the package details supported by the ICCID

2.21.1 Interface Description

Get the package details supported by the ICCID

2.21.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	iccid	String	No		
3	sign	String	No	Parameter signature	

2.21.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/getIccidSupportPackageInfo

2.21.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

The content data

Field name	description	Mandatory	Remark	Types of

skuid	Sku's code	Y		String
detailId	Order details id			Integer
countrycode	Country code	Y		String
imageUrl	Product icon			String
display	Product name in Chinese			String
displayEn	Product name in English			String
esimpackageDtoList	esim package collection			List<EsimPackageDto>
supportCountry	Supported Countries			List<String>
expirydate	Expired time			Date
countryImageUr1DtoList	List of country icon information			List<CountryImageUr1Dto>

Return Format EsimPackageDto Field Properties

Field name	description	Mandatory	Remark	Types of
flows	Number of Package Traffic	Y		Integer
days	Days of validity of package	Y		Integer
unit	Traffic unit	Y	GB/MB	String
price	Package Price	Y		Double
priceid	Unique Identification	Y		Integer
flowType	Renewable or not	Y	0 – renewable, 1 – non-renewable	Integer

countryImageUr1DtoList	List of Country Icons	Y		List<CountryImageUrlDto>
showName	Display Name	Y		String
pid		Y		Integer
premark	descriptive	Y		String
expireDays	Expired Policy	Y	0 – effective immediately, non-zero – expires after n days, or 30 days a month in the case of months.	Integer
networkDtoList	Network Support	Y		List<NetworkDto>
supportDaypass	Whether the day package	Y	0–Regular package, 1–Inclusive package, 2–Enum package	Integer
openCardFee	Card Opening Fee	Y		Integer
minDay	Minimum number of days	Y		Integer
singleDiscountDay	Number of days for word discount	Y		Integer
singleDiscount	Word Discount	Y		Integer
maxDiscount	Maximum Discount	Y		Integer
maxDay	Maximum Days	Y		Integer
mustDate	Date required or not	Y	1–Required	Integer
apiCpde	Unique identifier for the package	Y	99911-0-?-500-M-D	String

Return Format CountryImageUrlDto Field Properties

Field name	description	Mandatory	Remark	Types of
imageUrl	Country Icon Links	Y		String
countrycode	Country Code	Y		Integer
name	Country Name	Y		String
nameEn	Country Name (English)	Y		String

Return Format CountryImageUrlDto Field Properties

Field name	description	Mandatory	Remark	Types of
type	Network Type	Y	0-3G 1-LTE 2-5G	String
operator	Carrier	Y		String
namecn	Country Name	Y		String
nameen	Country Name (English)	Y		String

2.21.5 Return Form

```

success:
{
    "code": "0",
    "message": "success",
    "data": {

```

```
"skuid": 45,
"detailId": null,
"countrycode": "40",
"imageUrl":
"http://img.roamwifi.com/phoneImage/202009//af0c08eb-6f95-479d-843c-0638e1fc32fa
.jpg",
"display": "奥地利",
"displayEn": "Austria",
"esimPackageDtoList": [
{
  "flows": 1,
  "days": 3,
  "unit": "GB",
  "price": 2.66,
  "priceid": 441,
  "flowType": 0,
  "countryImageUrlDtoList": null,
  "showName": "",
  "pid": 52,
  "premark": "Plan type: Data only<br>\nAPN: internet<br>\nActivation Policy: The validity period starts when you turn on roaming and the eSIM connects to any supported network.<br>\nCancellation policy: Order can not be cancelled or refunded once the \"install eSIM\" button is clicked.",
  "overlay": 1,
  "expireDays": 0,
  "networkDtoList": [
    {
      "type": "LTE",
      "operator": "A1.net",
      "namecn": "奥地利",
      "nameen": "Austria"
    }
  ]
}
```

```
        },
        {
            "type": "LTE",
            "operator": "Hutchison 3G",
            "namecn": "奥地利",
            "nameen": "Austria"
        }
    ],
    "supportDaypass": 0,
    "openCardFee": 0,
    "minDay": 3,
    "singleDiscountDay": 3,
    "singleDiscount": 1,
    "maxDiscount": 15,
    "maxDay": 30,
    "mustDate": 0,
    "apiCode": "40-0-3-1-G"
}
],
"supportCountry": [
    "Austria"
],
"expirydate": null,
"countryImageUrlDtoList": [
    {
        "imageUrl": "http://img.roamwifi.com/phonelimage/202009//50948d3f-e32a-499e-a38e-c55ce6f9be52.jpg",
        "countryCode": 40,
        "name": "奥地利",
        "nameEn": "Austria"
    }
]
```

```
        }
    ]
}
}

fail:
{
  "code": -1, "message": "token expire", "data": ""}
{
  "code": -2, "message": " params is not null ", "data": ""}
{
  "code": -10, "message": " dplId is null ", "data": ""}
{
  "code": -30,
  "message": "sign wrong",
  "data": "sign wrong"
}
```

2.22 Query SIM Card Order Information List(Supports: eSIM and physical SIM card renewal)

2.22.1 Interface Description

Retrieve the SIM Card order information list based on the query conditions and the specified number of orders.(Supports: eSIM and physical SIM cards).

2.22.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	orderNum	String	Yes	Order Number	
3	iccid	String	Yes	Single ICCID query	
4	subTime	String	Yes	Order Time (If all parameters are not filled in, the default query is the time in the past three months)	2024/12/01-2024/12/31
5	status	String	Yes	Order Status (0: normal, paid; -1: not paid, 2: canceled; 3: voided; 4: partially unsubscribed; 5: ended, 6: unsubscribed in process, 7: partially unsubscribed in process)	
6	packageName	String	Yes	Package Name	Asia 8
7	outerOrderId	String	Yes	External Order Number	

8	outerItemId		Yes	External Order Item Number	
9	sTime		Yes	Start Time	2024/12/01-20 24/12/31
10	eTime		Yes	End Time	2024/12/01-20 24/12/31
11	pageNo	Integer	Yes	Return Page, default is 1	
12	pageSize	Integer	Yes	Maximum Number of Results, default is 30	
13	sign	String	No	Parameter Signature	

2.22.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/queryEsimOrder

2.22.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

The content data

Field name	description	Man dat ory	Remark	Types of
total	Total Orders	Y		Integer
page	Current Pages	Y		Integer
rows	Order Data Set	Y		List<Esi mOrderAp

				iVo>
--	--	--	--	------

Return EsimOrderApiVo Field Properties

Field name	description	Man dat ory	Remark	Types of
orderNum	Order Number	Y		String
skuId		Y		Integer
skuName	SKU Product Name	Y		String
type	Order Type	Y		Integer
daypassDay	Daypass Duration	Y		Integer
count	Quantity	Y		Integer
createTime	Order Time	Y		String
status	Status	Y	0 – effective immediately, non-zero – expires after n days, or 30 days a month in the case of months.	Integer
totle	Total Price	Y		String
outer_orderid	External Order Number	Y		String
outer_itemid	External Order Item Identifier	Y		String
pflag	Main Order Identifier	Y	true - Main Order, false - Renewal Order	Boolean
flowType	Package Type	Y	0: Can be renewed, 1: Cannot be renewed	Integer
renew	Renewal Order	Y	0: Main order 1: Renewal order	Integer
remark	Remarks	Y		String

email	Email	Y		String
cardType	Card Type	Y	0: eSIM Card, 1: Physical Card	Integer
packageList	Package List	Y		List<OrderPackageApiVo>

Return OrderPackageApiVoProperties

Field name	description	Mandatory	Remark	Types of
id	Order Number	Y		Integer
flows	Package Data Amount	Y		Integer
unit	Data Unit	Y		String
days	Days	Y		Integer
usedMb	Usage	Y		Double
name	Package Name	Y		String
beginDate	Start Time	Y		String
endDate	End Time	Y		String
status	Status	Y		Integer
iccid	iccid	Y		String
priceId	Package price ID	Y		Integer

2. 22. 5 Return Form

```

success:
{
    "code": "0",
    "message": "success",
    "data": {
        "total": 1,
        "page": 1,
    }
}

```

```
"rows": [
  {
    "orderNum": "EP20241224002723",
    "skuld": 114,
    "skuName": "Turkey",
    "type": 1,
    "daypassDay": 3,
    "count": 1,
    "createTime": "2024-12-24 17:30:14.0",
    "status": 0,
    "totle": "2.27",
    "outer_orderid": null,
    "outer_itemid": null,
    "pflag": true,
    "flowType": 0,
    "remark": null,
    "email": null,
    "cardType": 1,
    "renew": 0,
    "packageList": [
      {
        "id": 740667,
        "flows": 1,
        "unit": "GB",
        "days": 1,
        "usedMb": 0.0,
        "name": "1GB DayPass",
        "beginDate": null,
        "endDate": null,
        "status": 0,
        "iccid": "8937204017182391881",
      }
    ]
  }
]
```

```
        "priceld":9726
    }
]
}
]
}
}

fail:
{
  "code": -2, "message": " params is not null ", "data": ""
}
{
  "code": -8, "message": " get fail ", "data": ""
}
{
  "code": -30, "message": "sign wrong", "data": "sign wrong"
}
```

2.23 Verify resources based on the package's unique identification code

2.23.1 Interface Description

Verify whether the card resources are sufficient based on the unique identification code of the package.

2.23.2 Interface constraints

No.	Field name	Types of	Is empt y	description	Examples
1	token	String	No		
2	apiCode	String	No	apiCode	99162-0-3-1-G
3	count	String	No	Order quantity	
4	sign	String	No	Parameter signature	

2.23.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/verifyResourceByApiCode

2.23.4 Return constraints

No.	Field name	Types of	Is empt y	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

2. 23. 5 Return Form

```
success:  
Adequate resources  
{  
    "code": "0",  
    "message": "success",  
    "data": 1  
}  
Lack of resources  
{  
    "code": "0",  
    "message": "success",  
    "data": 0  
}  
fail:  
{ "code": -1, "message": "token expire", "data": "" }  
{ "code": -2, "message": " params is not null ", "data": "" }  
{ "code": 3, "message": " data not exist ", "data": "" }  
{  
    "code": -30,  
    "message": "sign wrong",  
    "data": "sign wrong"  
}
```

2.24 Place an order for a SIM card based on the package's unique identification code (Supports: eSIM and physical cards)

2.24.1 Interface Description

According to the unique identification code of the package, place an order for the SIM card (Supports: eSIM and physical card) and deduct the money from the account.

2.24.2 Interface constraints

No.	Field name	Types of	Is empty	description
1	token	String	No	
2	apiCode	String	Yes	99162-0-3-1-G
3	count	String	No	Order quantity
4	beginDate	String	Yes	Package if the date is required, the start time is required in the format: MM/dd/yyyy
5	remark	String	Yes	Remark information
6	otherOrderId	String	Yes	External platform order ID
7	otherItemId	String	Yes	External platform line item ID
8	otherPrice	String	Yes	External platform unit price
9	backInfo	String	Yes	0/NULL returns the order number 1.Return to order details

				2.Returns the PDF-URL information of the order
10	sign	String	No	Parameter signature
11	dpId	String	Yes	2.13 Get the DP ID of the physical card
12	iccidS	String	Yes	Multiple iccidS are separated by commas, and the number is count value.
13	customerEmail	String	No	Customer email address (If it does not conform to the email address format, the email will not be sent;)
14	isSendEmail	String	No	Whether to send email (0/null: not send, 1: send)
15	pdfLanguage	String	No	pdf language (refer to the language code in Appendix 3.2. If it is not in the appendix, English will be used by default)

2.24.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/addEsimOrderByApiCode

2.24.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status

2	message	String	No	response message
3	data	String	No	response data

The content data

Field name	description	Man dat ory	Remark	Types of
orderNum	Order No	Y		String
display	Display name	Y		String
purchaseDate	Order time	Y		String
count	Order quantity	Y		String
price	total price	Y		
status	Order status	Y	0: Normal, paid, - 1: Unpaid, 2: Cancel; 3: Obsolete; 4: Partial unsubscribe;	Integer
renewal	Renewal Order	Y		Boolean
mainOrderNum	Main Order Order Number	Y	If the order is renewed, the order number of the main order will be returned	String
starDate	start date	Y		String
endDate	end date	Y		String
outerOrderid	External order number	Y		String
outerItemId	External line item number	Y		String
renew	Renewal order	Y	0: Main order 1: Renewal order	Integer
priceId	Package price ID	Y		Integer
renewOrderNum	Renewal Order Number	Y	If the main order has a renewal order, the number	List<String>

	Set		set of the renewal order will be returned	
cardApiDtoList	Esim Information Set	Y		List< EsimOrderCardApi Dto>

Return Format EsimOrderCardApiDto Field Properties

Field name	description	Mandatory	Remark	Types of
data	Flow data	Y	2GB	String
validity	Valid days of package	Y		Integer
sm_dp_address	sm-dp+ address	Y		String
activationCode		Y		String
mobileNumber	Esim number	Y		String
iccid	ICCID	Y		String
activateBefore	Latest activation time	Y	2022-11-25	String
code	Usage code	Y	Android phones use this code to register esim	String
usedMB	Usage MB	Y	Package day date orders are not supported	String
startDate	Start Date	Y		String
endDate	End date	Y		String
pdfUrl	pdf link	Y		String
dpId		Y		Integer
dpStatus		Y		String
eid		Y		String
apn	APN	Y		String

2. 24. 5 Return Form

```
success:  
{  
    "code": "0",  
    "message": "success",  
    "data": "EP20221104000005"  
}  
  
{  
    "code": "0",  
    "message": "success",  
    "data": {  
        "orderNum": "EP20240124000013",  
        "display": "Australia",  
        "purchaseDate": "2024-01-24(GMT+8)",  
        "count": 1,  
        "price": "9.89",  
        "status": 0,  
        "renewal": true,  
        "mainOrderNum": null,  
        "startDate": null,  
        "endDate": null,  
        "outerOrderid": "",  
        "outerItemId": "",  
        "renew": 0,  
        "priceld": 9726,  
        "renewOrderNum": [],  
        "cardApiDtoList": [  
            {  
                "data": "6GB",  
                "validity": 8,  
            }  
        ]  
    }  
}
```

```
        "sm_dp_address": "ais.prod.ondemandconnectivity.com",
        "activationCode": "SEW7JEBMFGPRVSPD",
        "mobileNumber": "0841823354",
        "iccid": "934801019851134300",
        "activateBefore": "2024-02-24(GMT+8)",
        "code": "LPA:1$ais.prod.ondemandconnectivity.com$SEW7JEBMFGPRVSPD",
        "usedMB": "0.0",
        "startDate": null,
        "endDate": null,
        "pdfUrl": null,
        "dplId": 9,
        "dpStatus": null,
        "eid": null,
        "apn": "plus"
    }
]
}
}

{
    "code": "0",
    "message": "success",
    "data": {
        "orderNum": "EP20240124000014",
        "display": "Australia",
        "purchaseDate": "2024-01-24(GMT+8)",
        "count": 1,
        "price": "9.89",
        "status": 0,
        "renewal": false,
```

```
"mainOrderNum": null,  
"startDate": null,  
"endDate": null,  
"outerOrderid": "",  
"outerItemId": "",  
"renew": 1,  
"priceId": 9727,  
"renewOrderNum": [],  
"cardApiDtoList": [  
    {  
        "data": "6GB",  
        "validity": 8,  
        "sm_dp_address": "ais.prod.ondemandconnectivity.com",  
        "activationCode": "SEW7JEBMFGPRVSPD",  
        "mobileNumber": "0848735511",  
        "iccid": "162984356292255940",  
        "activateBefore": "2024-02-24(GMT+8)",  
        "code":  
            "LPA:1$ais.prod.ondemandconnectivity.com$SEW7JEBMFGPRVSPD",  
            "usedMB": "0.00",  
            "startDate": null,  
            "endDate": null,  
            "pdfUrl":  
                "http://img.roamwifi.com/phoneImage/202401//8bd384ba-729d-4d12-bc2e-b1f6908f07  
4b.pdf",  
            "dpId": 9,  
            "dpStatus": null,  
            "eid": null,  
            "apn": "plus"  
    }  
]
```

```
}

}

fail:

{ "code": -2, "message": " params is not null ","data": ""}

{"code": -3, "message": " data not exist ","data": ""}

{

    "code": -30,
    "message": "sign wrong",
    "data": "sign wrong"

}
```

2.25 SIM renewal based on package unique identification code (support: eSIM and physical card renewal)

2.25.1 Interface Description

Renew the package according to the order number or iccid based on the package unique identification code (support: eSIM and physical card).

2.25.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	orderNum	String	Yes	orderNum, and iccid cannot be empty at the same time.	
3	iccid	String	Yes	orderNum, and iccid cannot be empty at the same time.	
4	apiCode	String	Yes	apiCode	99162-0-3-1-G
5	remark	String	Yes	Remark information	
6	otherOrderId	String	Yes	External platform order ID	
7	otherItemId	String	Yes	External platform line item ID	
8	otherPrice	String	Yes	External platform unit price	
9	backInfo	String	Yes	0/NULL returns the order number 1.Return to order details 2.Returns the PDF-URL information of the order	

10	pdfLanguage	String	No	pdf language (refer to the language code in Appendix 3.2. If it is not in the appendix, English will be used by default)	
11	sign	String	No	Parameter signature	

2.25.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/renewCardByApiCode

2.25.4 Return constraints

No.	Field name	Types of	Is empt y	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	Order No

The content data

Field name	description	Mandat ory	Remark	Types of
orderNum	Order No	Y		String
display	Display name	Y		String
purchaseDate	Order time	Y		String
count	Order quantity	Y		String
price	total price	Y		
status	Order status	Y	0: Normal, paid, - 1: Unpaid, 2: Cancel; 3: Obsolete; 4: Partial unsubscribe;	Integer

renewal	Renewal Order	Y		Boolean
mainOrderNum	Main Order Order Number	Y	If the order is renewed, the order number of the main order will be returned	String
startDate	start date	Y		String
endDate	end date	Y		String
outerOrderid	External order number	Y		String
outerItemId	External line item number	Y		String
renew	Renewal order	Y	0: Main order 1: Renewal order	Integer
priceId	Package price ID	Y		Integer
renewOrderNum	Renewal Order Number Set	Y	If the main order has a renewal order, the number set of the renewal order will be returned	List<String>
cardApiDtoList	Esim Information Set	Y		List<EsimOrderCardApiDto>

Return Format EsimOrderCardApiDto Field Properties

Field name	description	Mandatory	Remark	Types of
data	Flow data	Y	2GB	String
validity	Valid days of package	Y		Integer
sm_dp_address	sm-dp+ address	Y		String
activationCode		Y		String
mobileNumber	Esim number	Y		String
iccid	ICCID	Y		String

activateBefore	Latest activation time	Y	2022-11-25	String
code	Usage code	Y	Android phones use this code to register esim	String
usedMB	Usage MB	Y	Package day date orders are not supported	String
startDate	Start Date	Y		String
endDate	End date	Y		String
pdfUrl	pdf link	Y		String
dpId		Y		Integer
dpStatus		Y		String
eid		Y		String
apn	APN	Y		String

2.25.5 Return Form

```

success:
{
    "code": "0",
    "message": "success",
    "data": "EP20221104000005"
}
{
    "code": "0",
    "message": "success",
    "data": {
        "orderNum": "EP20240124000013",
        "display": "Australia",
        "purchaseDate": "2024-01-24(GMT+8)",
        "count": 1,
        "price": "9.89",
        "status": 0,
    }
}

```

```
"renewal": true,  
"mainOrderNum": null,  
"startDate": null,  
"endDate": null,  
"outerOrderid": "",  
"outerItemId": "",  
"renew": 0,  
"priceId": 9726,  
"renewOrderNum": [],  
"cardApiDtoList": [  
    {  
        "data": "6GB",  
        "validity": 8,  
        "sm_dp_address": "ais.prod.ondemandconnectivity.com",  
        "activationCode": "SEW7JEBMFGPRVSPD",  
        "mobileNumber": "0841823354",  
        "iccid": "934801019851134300",  
        "activateBefore": "2024-02-24(GMT+8)",  
        "code":  
            "LPA:1$ais.prod.ondemandconnectivity.com$SEW7JEBMFGPRVSPD",  
            "usedMB": "0.0",  
            "startDate": null,  
            "endDate": null,  
            "pdfUrl": null,  
            "dpId": 9,  
            "dpStatus": null,  
            "eid": null,  
            "apn": "plus"  
    }  
]
```

```
}

{

    "code": "0",
    "message": "success",
    "data": {

        "orderNum": "EP20240124000014",
        "display": "Australia",
        "purchaseDate": "2024-01-24(GMT+8)",
        "count": 1,
        "price": "9.89",
        "status": 0,
        "renewal": false,
        "mainOrderNum": null,
        "startDate": null,
        "endDate": null,
        "outerOrderid": "",
        "outerItemId": "",
        "renew": 1,
        "priceld": 9727,
        "renewOrderNum": [],
        "cardApiDtoList": [
            {
                "data": "6GB",
                "validity": 8,
                "sm_dp_address": "ais.prod.ondemandconnectivity.com",
                "activationCode": "SEW7JEBMFGPRVSPD",
                "mobileNumber": "0848735511",
                "iccid": "162984356292255940",
                "activateBefore": "2024-02-24(GMT+8)",
                "code": "
```

```
"LPA:1$ais.prod.ondemandconnectivity.com$SEW7JEBMGPRVSPD",
    "usedMB": "0.00",
    "startDate": null,
    "endDate": null,
    "pdfUrl":
"http://img.roamwifi.com/phonelImage/202401//8bd384ba-729d-4d12-bc2e-b1f6908f07
4b.pdf",
    "dpId":9,
    "dpStatus": null,
    "eid": null,
    "apn":"plus"
}
]
}
}
fail:
{
  "code": -2, "message": " params is not null ","data": ""}
{
  "code": -3, "message": " data not exist ","data": ""}
```

2.26 Get account balance

2.26.1 Interface Description

Get the current account balance

2.26.2 Interface constraints

No.	Field name	Types of	Is empty	description	Examples
1	token	String	No		
2	sign	String	No	Parameter signature	

2.26.3 Interface name

Production: https://bpm.roamwifi.hk/api_esim/getBalance

2.26.4 Return constraints

No.	Field name	Types of	Is empty	description
1	code	String	No	response status
2	message	String	No	response message
3	data	String	No	response data

The content data

Field name	description	Mandatory	Remark	Types of
balance	balance	Y		String
currency	currency	Y		String

2. 26. 5 Return Form

```
success:  
{  
    "code": "0",  
    "message": "成功",  
    "data": {  
        "balance": "628.49",  
        "currency": "USD"  
    }  
}  
  
fail: {"code": -1, "message": "token expire", "data": ""}  
{  
    "code": -30,  
    "message": "sign wrong",  
    "data": "sign wrong"  
}  
  
{  
    "code": -3,  
    "message": "get balance fail",  
    "data": ""  
}
```

3 appendix

3.1 Order formState table

No.	statuscode	Status information
1	-1	Not aid
2	0	Paid
3	2	Cancelled
4	3	Invalid
5	4	Part of a refund
6	5	Ended
7	6	Unsubscribing
8	7	Part refund in process

3.2 PDF supports multilingual lists

No.	Country	Language Code
1	English	en-US
2	中文	zh-CN
3	繁體中文	zh-TW
4	日本語	ja-JP
5	Русский язык	ru-RU
6	Español	es-ES
7	Français	fr-FR
8	한국어	ko-KR
9	Deutsch	de-DE
10	Italiano	it-IT
11	Bahasa Indonesia	id-ID
12	العربية اللغة	ar-SA
13	Português	pt-BR
14	Tiếng Việt	vi-VN
15	ภาษาไทย	th-TH

3.3 Java Login Demo

(1)Login.java

```
import java.io.UnsupportedEncodingException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.apache.commons.codec.binary.Hex;
import org.apache.commons.codec.digest.DigestUtils;

import jodd.http.HttpRequest;
import jodd.http.HttpResponse;
public class Demo {
    public static void main(String[] args) {
        testLogin();
    }

    public static String testLogin() {
        Map<String, Object> paramMap = new HashMap<String, Object>();
        String token = "";
        paramMap.put("phonenumber", "xxxxxxxxxx");
        paramMap.put("password", "xxxxxxx");
        String sign = createSign(paramMap);
        paramMap.put("sign", sign);
        HttpResponse responseData = HttpRequest
            .post("https://bpm.roamwifi.hk/api_order/login").form(paramMap).send();

        String postData = responseData.bodyText();
        JSONObject parseObject = JSONObject.fromObject(postData);

        String token = JSONObject.fromObject(parseObject.get("data"))
            .get("token").toString();
        return token;
    }

    public static String createSign(Map<String, Object> map) {
        final String sign_key = "1234567890qwertyuiopasdfghjklzxc";

        StringBuffer buffer = new StringBuffer();
        List<String> arrayList = new ArrayList<String>();
        map.remove("sign");
        for (String item : map.keySet()) {
            arrayList.add(item + "=" + map.get(item));
        }

        Collections.sort(arrayList);
        for (String string : arrayList) {
            buffer.append(string);
        }
    }
}
```

```

        String content = buffer + sign_key;
        String result = "";
        byte[] data = content.getBytes("UTF-8");
        result = Hex.encodeHexString(DigestUtils.md5(data));
        return result;
    }
}

```

(2) Sign Signature Algorithm: In addition to the sign parameter, each interface is spliced into the signature algorithm.

```

import org.apache.shiro.crypto.hash.Md5Hash;
public static String createSign(Map<String, String> map){

    final String sign_key = "1234567890qwertyuiopasdfghjklzxc";

    if(map.get("sign") == null)
        return null;
    StringBuffer buffer=new StringBuffer();
    List<String> arrayList=new ArrayList<String>();
    map.remove("sign");
    for (String item : map.keySet()) {
        arrayList.add(item+"="+map.get(item));
    }

    Collections.sort(arrayList);
    for (String string : arrayList) {
        buffer.append(string);
    }
    String content = buffer + sign_key;
    String result = "";
    byte[] data = content.getBytes("UTF-8");
    result = Hex.encodeHexString(DigestUtils.md5(data));
    return result;
}

```

3.4 PHP Login Demo

```
<?php

$params = [
    "token" => "xxxx",
    "skuld" => "xxxx",
    "priceid" => "xxxx",
    "count" => "xxxx",
    "daypass" => "xxxx",
];
echo "sign result: " . bpm_sign($params);

function bpm_sign ($data_ary) {
    $Result = "";
    if (is_array ($data_ary)) {
        $Sign_key = "1234567890qwertyuiopasdfghjklzxc";
        $Buffer = "";
        $ArrayList = [];
        if(isset ($data_ary['sign'])) {
            unset ($data_ary['sign']);
        }
        foreach ($data_ary as $k => $v) {
            $ArrayList[] = $k."=".$v;
        }
        sort($ArrayList);

        $Buffer = implode(",",$ArrayList);
        echo "params: " . $Buffer . PHP_EOL;

        $encodeStr = customURLEncode(($Buffer . $Sign_key));
        echo "encodeStr=". $encodeStr . PHP_EOL;

        $Result = strtoupper(hash('md5', $encodeStr));
        echo "mysign=". $Result . PHP_EOL;
    }
    return $Result;
}

function customURLEncode($string) {
    return str_replace(
        ['+', '*', '%7E'],
        ['%20', '%2A', '~'],
        rawurlencode($string)
    );
}
?>
```

3.5 Python Login Demo

(1) SignDemo.py

```
import threading
import bpm_lib

def fun_timer():
    print("The timer triggered!")

def main():
    global login_status
    token = ""

    while True:
        phonenumber = 'xxxxxxxxxx'
        password = 'xxxxxxxx'
        tsid = ""
        token = ""

        # Check for valid phone number input
        while phonenumber == "":
            phonenumber = input('Please enter your phone number:')

        # Check for valid password input
        while password == "":
            password = input('Please enter your password:')

        # Log in using the phone number and password
        token = bpm_lib.log_in(phonenumber, password)

        if token == "":
            print('Please enter the correct account and password!')
            phonenumber = ""
            password = ""
            imei = ""
            tsid = ""
        else:
            print(f"Login successful, token: {token}")
            break

    # Set up the timer
    timer = threading.Timer(324000, fun_timer)
    timer.start()

if __name__ == "__main__":
    main()
```

(2)Bpm_lib.py

```
import hashlib
import requests
import urllib.parse
import json

sign_key = '1234567890qwertyuiopasdfghjklzxc'
login_url = 'https://bpm.roamwifi.hk/api_order/login'

def creat_sign(value):
    value.sort()
    MD5 = "".join(value) + sign_key
    encoded_str = urllib.parse.quote(MD5, safe='')
    sign_value = hashlib.md5(encoded_str.encode('utf-8')).hexdigest().upper()
    return sign_value

def log_in(phonenumber, password):
    token = ""
    message = ['password=%s' % password, 'phonenumber=%s' % phonenumber]
    sign = creat_sign(message)
    response = requests.get(url = '%s' % (login_url),
                             params={'password':'%s' % (password),
                                      'phonenumber':'%s' % (phonenumber), 'sign':'%s' % (sign)})
    if response.status_code == 200:
        json_str = response.text
        value = json.loads(json_str)
        if value['code'] == 1:
            json_str1 = json.dumps(value['data'])
            data = json.loads(json_str1)
            token = data['token']
        else:
            print('log_in code error:%d' % value['code'])
    else:
        print('log_in server error:%d' % response.status_code)
    return token
```