API Documentation

Preparations

TEST ENVIRONMENT

DOMAIN=fat1-api-us.xiaoyi.com

PROD ENVIRONMENT

DOMAIN=openapi-us.xiaoyi.com

Obtain your APPID and SecretKey.

Example:

AppID	SecretKey
31d7cd689aa946bda571ec27c0653a0c	XXYIM75p8x0iWVFSIgqEKwFprpRSVaxY

Signing Process

Generating KeyTime

1. Get the Unix timestamp(second) "StartTimestamp" corresponding to the current time.
2. Calculate the Unix timestamp "EndTimestamp" corresponding to the signature expiry time based on the timestamp above and the expected validity period of the signature.
3. Splice the signature validity period in the format of StartTimestamp;EndTimestamp.

Example:

keyTime=1581782400;1581786000

Generating SignKey

Calculate the message digest (hash value) using HMAC-SHA1 with SecretKey as the key and KeyTime as the message, which is SignKey.

Pseudocode:

SignKey=HMAC-SHA1(SecretKey, KeyTime)

Generating HttpParametersString

1. Traverse the HTTP request parameters, generate the key-to-value mapping "Map" and the key list "KeyList", where key is converted to lowercase and value is UrlEncoded.
2. Sort the KeyList in lexicographical order.
3. UrlEncode the keys in the Map and KeyList and convert them to lowercase too.
4. Splice all key-value pairs in the Map in the order of the KeyList in the format of key1=value1&key2=value2&key3=value3, which is the HttpParametersString.

Generating Signature

Calculate the message digest using HMAC-SHA1 with **SignKey** as the key and [**HttpParametersString**] as the message, which is the Signature.
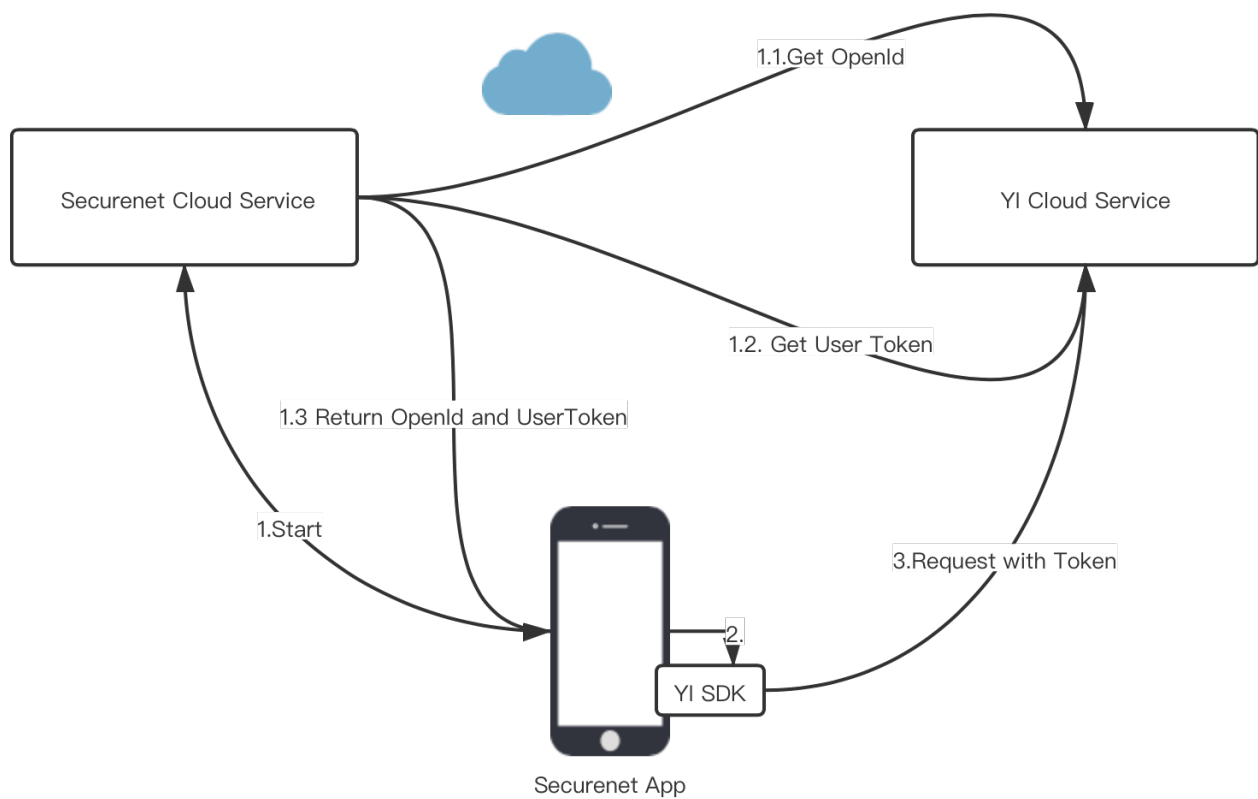
- **HttpParametersString**Need to exclude keytime and sign.

Signature Use

Pass as an HTTP request parameter (be sure to UrlEncode), such as https://api.us.xiaoyi.com/user_token?
appId=12345678&keyTime=1581782400;1581786000&sign=xxxxxx&client_token=xxxxx

Service API for Alder

Get Token Process

Generate OpenId (Yi User ID)

URL	https://{DOMAIN}/bm/v1/gen_openid
Request Method	POST
Content-Type	application/json
Parameters	

Name	Type	Required	Description
appId	String	Yes	
keyTime	String	Yes	
sign	String	Yes	

Request Example	
| | ```
curl -H "Content-Type:
application/json" -X POST -
d '{"appid":"
31d7cd689aa946bda571ec27c065
3a0c","keyTime":"1581782400;
1581786000","sign":"
h1D2EqiyxOatM+1sqVqEv03Nq3U=
"}' https://{DOMAIN}/bm/v1
/gen_openid
``` |

Response	

Name	Type	Required	Description
code	Integer	Yes	
msg	String	Yes	
openId	String	Yes	32bit YI UserID

Response Example	
| | ```
{
"code":20000,
"msg":"success",
"data":{
        "openId":"32bit YI
UserID"
}
}
``` |

Description	

Get User Token

URL	https://{DOMAIN}/bm/v1/user_token
Request Method	GET
Content-Type	
Parameters	

Name	Type	Required	Description
openId	String	Yes	YI User ID
appId	String	Yes	
uuid	String	Yes	
keyTime	String	Yes	
sign	String	Yes	

Request Example	
| | ```
curl https://{DOMAIN}/bm/v1
/user_token?
openId=cb6c3cf33131495c9f472
9bdb5e849c0&appid=31d7cd689a
a946bda571ec27c0653a0c&keyTi
me=1581782400;
1581786000&sign=h1D2EqiyxOat
M+1sqVqEv03Nq3U%3D
``` |
Response	
	<table><tr><th>Name</th><th>Type</th><th>Required</th><th>Description</th></tr><tr><td>code</td><td>String</td><td>Yes</td><td></td></tr><tr><td>token</td><td>String</td><td>Yes</td><td></td></tr><tr><td>expiresTime</td><td>long</td><td>Yes</td><td></td></tr></table>
Response Example	
| | ```
{
"code":20000,
"data":{
        "accessToken:"
31d7cd68-9aa9-46bd-a571-
ec27c0653a0c",
        "expiresTime":182222
}
}
``` |
| Description | |

Arm/Disarm (unrealized)

URL	https://{DOMAIN}/bm/v1/arm
Request Method	POST
Content-Type	application/json
Parameters	<table><tr><th>Name</th><th>Type</th><th>Required</th><th>Description</th></tr><tr><td>...</td><td></td><td></td><td></td></tr><tr><td>openId</td><td>String</td><td>Yes</td><td>YI User ID</td></tr><tr><td>did</td><td>String</td><td>Yes</td><td>Camera Id</td></tr><tr><td>appId</td><td>String</td><td>Yes</td><td></td></tr><tr><td>keyTime</td><td>String</td><td>Yes</td><td></td></tr><tr><td>sign</td><td>String</td><td>Yes</td><td></td></tr></table>
Description	To be discuss

~~Subscribe cloud storage (~~not used~~)~~

URL	https://{DOMAIN}/bm/v1/cloud/subscribe
Request Method	POST
Content-Type	application/json
Parameters	

Name	Type	Required	Description
did	String	Yes	Camera Id
openId	String	Yes	YI User ID
startTime	long	Yes	Unix timestamp (second)
endTime	long	Yes	Unix timestamp (second)
appId	String	Yes	
keyTime	String	Yes	
sign	String	Yes	

Request Example

```
curl -H "Content-Type:
application/json" -X POST -
d '{"did":"
FFCNY0593SAVGQ171207","
openId":"
cb6c3cf33131495c9f4729bdb5e8
49c0","startTime":"
1582539121","endTime":"
1582539121","appid":"
31d7cd689aa946bda571ec27c065
3a0c","keyTime":"1581782400;
1581786000","sign":"
h1D2EqiyxOatM+1sqVqEv03Nq3U=
"}' https://{DOMAIN}/bm/v1
/cloud/subscribe
```

Response

Name	Type	Required	Description
code	Integer	Yes	
msg	String	Yes	

| Response Example | ```
{
"code":20000,
"msg":"success"
}
``` |
|---|---|
| Description | |

~~Cancel cloud storage (~~not used~~)~~

URL	https://{DOMAIN}/bm/v1/cloud/cancel
Request Method	POST
Content-Type	application/json
Parameters	

Name	Type	Required	Description
did	String	Yes	Camera Id
openId	String	Yes	YI User ID
endTime	long	Yes	Unix timestamp (second)
appId	String	Yes	
keyTime	String	Yes	
sign	String	Yes	

| Request Example | ```
curl -H "Content-Type:
application/json" -X POST -
d '{"openId":"
cb6c3cf33131495c9f4729bdb5e8
49c0","endTime":"
1582539121""appid":"
31d7cd689aa946bda571ec27c065
3a0c","keyTime":"1581782400;
1581786000","sign":"
h1D2EqiyxOatM+1sqVqEv03Nq3U=
"}' https://{DOMAIN}/bm/v1
/cloud/cancel
``` |
|---|---|

Response	

Name	Type	Required	Description
code	Integer	Yes	
msg	String	Yes	

| Response Example | ```
{
"code":20000,
"msg":"success"
}
``` |
|---|---|
| Description | |

Get Camera List

URL	https://{DOMAIN}/bm/v1/cameralist
Request Method	GET
Content-Type	
Parameters	<table><tr><th>Name</th><th>Type</th><th>Required</th><th>Description</th></tr><tr><td>openId</td><td>String</td><td>Yes</td><td></td></tr><tr><td>appId</td><td>String</td><td>Yes</td><td></td></tr><tr><td>keyTime</td><td>String</td><td>Yes</td><td></td></tr><tr><td>sign</td><td>String</td><td>Yes</td><td></td></tr></table>
| Request Example | ```
curl https://{DOMAIN}/bm/v1
/cameralist
/cb6c3cf33131495c9f4729bdb5e
849c0?
appid=31d7cd689aa946bda571ec
27c0653a0c&keyTime=158178240
0;
1581786000&sign=h1D2EqiyxOat
M+1sqVqEv03Nq3U%3D
``` |
| Response | <table><tr><th>Name</th><th>Type</th><th>Required</th><th>Description</th></tr><tr><td>code</td><td>Integer</td><td>Yes</td><td></td></tr><tr><td>did</td><td>String</td><td>Yes</td><td></td></tr><tr><td>uid</td><td>String</td><td>Yes</td><td></td></tr><tr><td>name</td><td>String</td><td>No</td><td></td></tr><tr><td>state</td><td>Integer</td><td>Yes</td><td>0-off;1-on</td></tr></table> |

| Response Example | ```json
{
"code":20000,
"msg":"success",
"data":[
        {"did":"
11APU8E6GNWV5ED8111A","
uid":"TNPUSAJ-474458-HSWYV",
        "name":"Home1","
state":1},
        {"did":"
117NJGY2WHGNFZ87111A","
uid":"TNPUSAJ-474458-HSWYV",
        "name":"Home2","
state":0}
        ]
}
``` |
|---|---|
| Description | |

Remove user

URL	https://{DOMAIN}/bm/v1/user/{openId}
Request Method	DELETE
Content-Type	application/json

Parameters	
		Name	Type	Required	Description
	|---|---|---|---
		openId	String	Yes	
		appId	String	Yes	
		keyTime	String	Yes	
		sign	String	Yes	

| Request Example | ```
curl -H "Content-Type:
application/json" -X DELETE
-d '{"appid":"
31d7cd689aa946bda571ec27c065
3a0c","keyTime":"1581782400;
1581786000","sign":"
h1D2EqiyxOatM+1sqVqEv03Nq3U=
"}' https://{DOMAIN}/bm/v1
/user
/cb6c3cf33131495c9f4729bdb5e
849c0
``` |
|---|---|

Response				
	Name	**Type**	**Required**	**Description**
	code	Integer	Yes	
	msg	String	Yes	

Response Example	

	``
	{
	"code":20000,
	"msg":"success"
	}
	``

Description	

Notification for Service

Alert / Bind

URL	third-party provide
Request Method	POST
Content-Type	application/json

Parameters				
	Name	**Type**	**Required**	**Description**
	title	String	Yes	
	type	int	Yes	3-bind; 401-motion detect; 402-people detect; 403-baby crying detect; 404-motion tracking; 405-abnormal audio detect; 601-camera edit; 602-camera del;
	message	String	Yes	
	did	String	Yes	
	timestamp	Long	Yes	
	openId	String	Yes	
	appId	String	Yes	
	keyTime	String	Yes	
	sign	String	Yes	

Response				
	Name	**Type**	**Required**	**Description**
	code	Integer	Yes	
	msg	String	Yes	

Description

```
{
"code":20000,
"msg":"success"
}
```

Cloud Service (new added on 20201019)

Delete Camera

URL	https://{DOMAIN}/bm/v1/camera/remove
Request Method	DELETE
Content-Type	
Parameters	
Request Example	
Response	
Response Example	
Description	

Parameters

Name	Type	Required	Description
openId	String	Yes	
appId	String	Yes	
keyTime	String	Yes	
sign	String	Yes	
uid	String	Yes	

Request Example

```
curl https://{DOMAIN}/bm/v1/camera/remove?
appId=3Idw0k0OG5QGiGVlsnn8bAEFCwVxkrCm&openId=ylQb9K
z1WWaNnYhAHDaTBgdA0dhyUrn1&sign=bJPtT%
2BCnrhz7hmlMOp7x6cloF8Y=&uid=TNPUSAE-561770-
FTBYR&keyTime=1598244331;1698244931
```

Response

Name	Type	Required	Description
code	Integer	Yes	
msg	String	Yes	

Response Example

```
{
    "code": 20000,
    "msg": "success",
    "data": null
}
```

Upgrade Order

URL	https://{DOMAIN}/bm/v1/order/upgrade
Request Method	POST
Content-Type	
Parameters	

Parameters

Name	Type	Required	Description
openId	String	Yes	
appId	String	Yes	
keyTime	String	Yes	
sign	String	Yes	
uid	String	Yes	
appSystem	Integer	no	1-IOS 2-Android 3-PC DEFAULT:2

Request Example	curl -X POST "http://{DOMAIN}/bm/v1/order/upgrade" -H "accept: ⁄ -H "Content-Type: application/json" -d '{ "appId": "3Idw0k0OG5QGiGVlsnn8bAEFCwVxkrCm", "appSystem": 0, "keyTime": "1602847281;1602847881", "openId": "ylQb9Kz1WWaNnYhAHDaTBgdA0dhyUrn1", "sign": "h1D2EqiyxOatM+1sqVqEv03Nq3U=", "uid": "TNPUSAK-398790-PDZTJ"}'
Response	

Name	Type	Required	Description
code	Integer	Yes	
msg	String	Yes	
data	String	No	orderCode

Response Example	

```
{
  "msg": "success",
  "code": 20000,
  "data": "20101611155615204446377"
}
```

Description	

Cancel Order

URL	https://{DOMAIN}/v1/order/cancel
Request Method	POST
Content-Type	
Parameters	

Name	Type	Required	Description
openId	String	Yes	
appId	String	Yes	
keyTime	String	Yes	
sign	String	Yes	
orderCode	String	Yes	
appSystem	Integer	no	1-IOS 2-Android 3-PC DEFAULT:2

Request Example	curl -X POST "http://{DOMAIN}/bm/v1/order/cancel" -H "accept: */*" -H "Content-Type: application/json" -d '{ "appId": "3Idw0k0OG5QGiGVlsnn8bAEFCwVxkrCm", "appSystem": 0, "keyTime": "1602847281;1602847881", "openId": "ylQb9Kz1WWaNnYhAHDaTBgdA0dhyUrn1", "orderCode": "20101611155615204446377", "sign": "h1D2EqiyxOatM+1sqVqEv03Nq3U="}'
Response	

Name	Type	Required	Description
code	Integer	Yes	
msg	String	Yes	

Response Example	

```
{
    "code": 20000,
    "msg": "success",
    "data": null
}
```

Description	

Renew Order

URL	https://{DOMAIN}/v1/order/renew
Request Method	POST
Content-Type	
Parameters	

Name	Type	Required	Description
openId	String	Yes	
appId	String	Yes	
keyTime	String	Yes	
sign	String	Yes	
orderCode	String	Yes	
appSystem	Integer	no	1-IOS 2-Android 3-PC DEFAULT:2

Request Example	curl -X POST "http://{DOMAIN}/bm/v1/order/renew" -H "accept: ⁄" -H "Content-Type: application/json" -d '{ "appId": "3Idw0k0OG5QGiGVlsnn8b AEFCwVxkrCm", "appSystem": 0, "keyTime": "1602847281;1602847881", "openId": "ylQb9Kz1WWaNnYhAHDaTBgdA0dhyUrn1", "orderCode": "20 10161115561520446377", "sign": "h1D2EqiyxOatM+1sqVqEv03Nq3U="}'
Response	

Name	Type	Required	Description
code	Integer	Yes	
msg	String	Yes	
data	String	No	orderCode

Response Example	```{
"msg": "success",
"code": 20000,
"data": "2010161115561520446377"
}```
Description	