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Preparations

TEST ENVIRONMENT

DOMAIN=fat1-api-us.xiaoyi.com

PROD ENVIRONMENT

DOMAIN=openapi-us.xiaoyi.com

Obtain your APPID and SecretKey.

Example:

AppID	SecretKey
31d7cd689aa946bda5 71ec27c0653a0c	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.

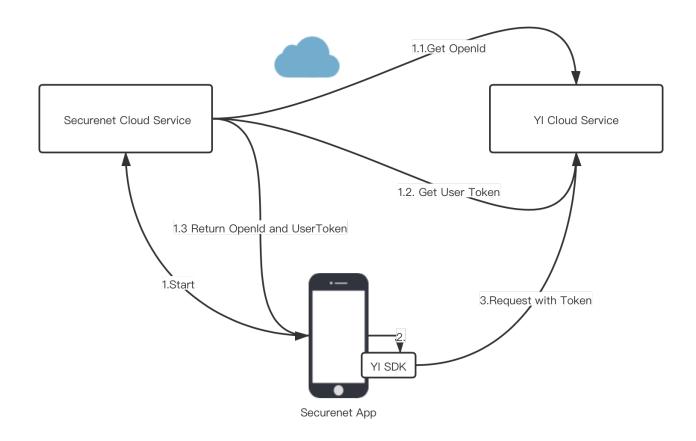
• HttpParametersStringNeed to exclude keytime and sign.

Signature Use

Pass as an HTTP request parameter (be sure to UrlEncode), such as https://api.us.xiaoyi.com/user_token? appld=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	n/v1/gen_c	penid	
Request Method	POST				
Content-Type	applica	tion/json			
Parameters					
		Name	Туре	Required	Description
		appld	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 Requir
                                                                      Description
                                                              ed
                                                        Integ
                                                              Yes
                                                 code
                                                        er
                                                 msg
                                                        String Yes
                                                 open
                                                        String Yes
                                                                      32bit YI
                                                                      UserID
                                                  Id
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	Туре	Required	Description
	openI	d String	Yes	YI User ID
	appld	String	Yes	
	uuid	String	Yes	
	keyTii	me 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
                                                  Name
                                                            Type Required Description
                                                  code
                                                            String Yes
                                                  token
                                                            String Yes
                                                  expiresTime long
                                                                 Yes
Response Example
                                                   "code":20000,
                                                   "data":{
                                                           "accessToken:"
                                                  31d7cd68-9aa9-46bd-a571-
                                                  ec27c0653a0c",
                                                           "expiresTime":182222
Description
```

Arm/Disarm (unrealized)

URL	https://	/{DOMAIN}/bm	n/v1/arm		
Request Method	POST				
Content-Type	applic	ation/json			
Parameters		Name 	Туре	Required	Description
		openId	String	Yes	YI User ID
		did	String	Yes	Camera Id
		appld	String	Yes	
		keyTime	String	Yes	
		sign	String	Yes	
Description	To be	discuss			

Subscribe cloud storage (not used)

URL	https://{DOMAIN	/bm/v1/clo	oud/subscribe	Э	
Request Method	POST				
Content-Type	application/json				
Parameters	Name	Ty pe	Requir ed	Des	scription
	did	Stri ng	Yes	Car	nera Id
	openio	Stri ng	Yes	ΥI U	Jser ID
	startTi me	long	Yes		x timestamp cond)
	endTi me	long	Yes		x timestamp cond)
	appld	Stri ng	Yes		
	keyTi me	Stri ng	Yes		
	sign	Stri ng	Yes		
	appl d ' { FFCN oper cb66 49c0 1582 1582 31d7 3a06 1583 h1D2 " } '	icati "did" "Y0593 "Id": "33cf333 ","st 253912 "cd689 ","ke .78600 REqiyx https	SAVGQ17 1314950 artTime 1","end 1","app aa946bd yTime": 0","sig OatM+1s	1" - 7120 29f4 2":" lTim bid" la57 "15 gn": sqVq	X POST - 7"," 729bdb5e8 e":" :" 1ec27c065 81782400;
Response	Name	Туре	Requi	ired	Description
	code	Inton	V		
	0000	Integ	er 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 Ty Requir Description pe
	did Stri Yes Camera Id
	openId Stri Yes YI User ID
	endTi long Yes Unix timestamp (second)
	appld Stri Yes
	keyTi Stri Yes me ng
	sign Stri Yes
Request Example	<pre>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</pre>
Response	Name Type Required Description

Integer Yes

String Yes

code

msg

```
Response Example

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

Description
```

Get Camera List

RL	https://{DOMAIN}/bn	n/v1/came	ralist						
equest Method	GET								
ontent-Type									
arameters	Name	Туре	Required	Description					
	openId	String	Yes						
	appld	String	Yes						
	keyTime	String	Yes						
	sign	String	Yes						
	/came: /cb6c: 849c0	ralist 3cf331 ?	.31495c9f	4729bdb5e					
osnonse.	/camer /cb6c3 849c0 appid: 27c069 0; 158178	ralist 3cf331 ? =31d7c 53a0c&	31495c9f cd689aa94 keyTime=	4729bdb5e 6bda571ec 158178240					
sponse	/camer /cb6c: 849c0 appid: 27c06! 0; 158178 M+1sqv	ralist 3cf331 ? =31d7c 53a0c&	31495c9f d689aa94 keyTime=	4729bdb5e 6bda571ec 158178240 2EqiyxOat					
ponse	/camer /cb6c: 849c0 appid: 27c06! 0; 158178 M+1sqv	ralist 3cf331 ? =31d7c 53a0c& 86000& VqEv03	:d689aa94 :keyTime= :sign=h1D	4729bdb5e 6bda571ec 158178240 2EqiyxOat					
oonse	/camer /cb6c3 849c03 appids 27c069 0; 158178 M+1sqN	ralist 3cf331 ? =31d7c 53a0c& 86000& VqEv03	31495c9f d689aa94 keyTime= sign=h1D Nq3U%3D	4729bdb5e 6bda571ec					
ponse	/camer /cb6c3 849c0 appids 27c069 0; 158178 M+1sqv	ralist 3cf331 ? =31d7c 53a0c& 86000& VqEv03 Type Integer	ad689aa94 keyTime= sign=h1D Nq3U%3D	4729bdb5e 6bda571ec 158178240 2EqiyxOat					
esponse	/camer /cb6c3 849c0 appid: 27c06! 0; 158178 M+1sqv	ralist 3cf331 ? =31d7c 53a0c& 86000& VqEv03 Type Integer String	ad689aa94 keyTime= sign=h1D Nq3U%3D Required Yes	4729bdb5e 6bda571ec 158178240 2EqiyxOat					

Remove user

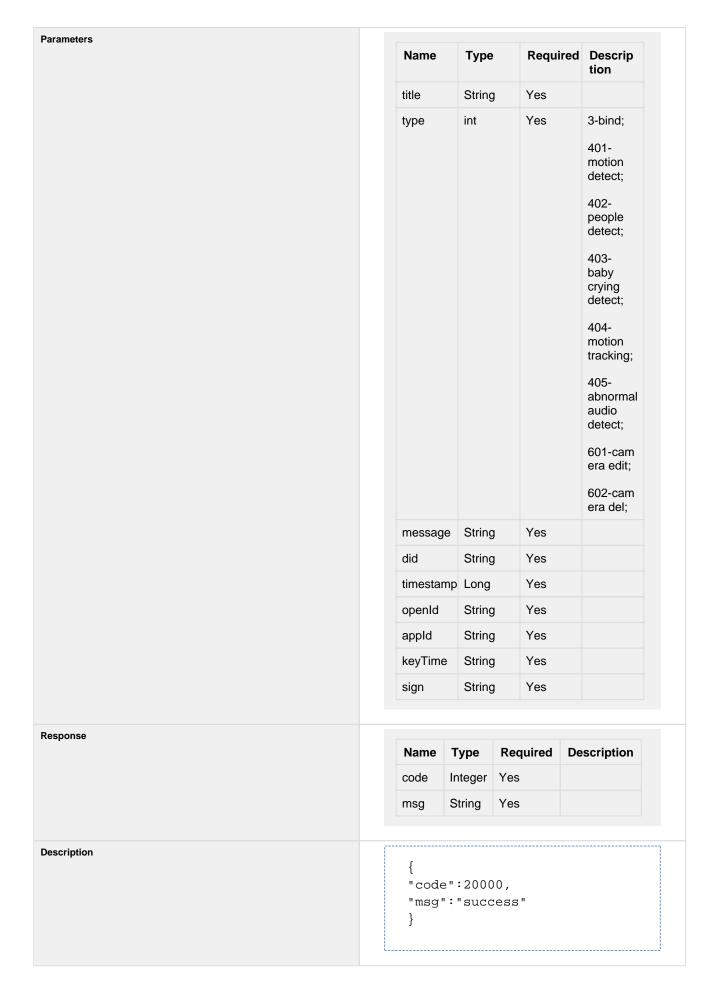
URL	https://{DOM/	AIN}/bm/	/v1/user/{	openId}			
Request Method	DELETE						
Content-Type	application/json						
Parameters	Na	me	Туре	Required	Description		
	оре	enld	String	Yes			
	арр	old	String	Yes			
	key	/Time	String	Yes			
	sigr	n	String	Yes			
	-c 31 3a 15 h1 "} /u	d '{" ld7cd a0c", 58178 lD2Eq }' ht	appid 689aa "keyT 6000" iyxOa tps:/	946bda57 ime":"15 ,"sign": tM+1sqVqi /{DOMAIN	1ec27c065 81782400; " Ev03Nq3U=		

		Type	Required	Description
	code	Integer	Yes	
	msg	String	Yes	
esponse Example		e":200(":"succ		

Notification for Service

Alert / Bind

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



Cloud Service (new added on 20201019)

Delete Camera

URL	https://{D	OMAIN}	/bm/v1/came	ra/remove		
Request Method	DELETE					
Content-Type						
Parameters						
	Name	Туре	Required	Description		
	openId	String	Yes			
	appld	String	Yes			
	keyTime	String	Yes			
	sign	String	Yes			
	uid	String	Yes			
	z1WWaN 2BCnrh	nYhAHD z7hmlM	aTBgdA0dh Op7x6cloF	yUrn1&sign=	USAE-561770-	K.
Response	Name	Туре	Required	Description		
	code	Integer	Yes			
	msg	String	Yes			
Response Example	"m		20000, success", null			
Description						

Upgrade Order

URL	https://{DOMAIN}/bm/v1/order/upgrade					
Request Method	POST					
Content-Type						
Parameters						
	Name	Туре	Required	Description		
	openId	String	Yes			
	appld	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 '{ "appld": "3ldw0k0OG5QGiGVlsnn8b AEFCwVxkrCm", "appSystem": 0, "keyTime": "1602847281;1602847881", "openId": "yIQb9Kz1WWaNnYhAHDaTBgdA0dhyUrn1", "sign": "h1D2Eqiy xOatM+1sqVqEv03Nq3U=", "uid": "TNPUSAK-398790-PDZTJ"}'						
Response	Name code msg data	Type Integer String String	Required Yes Yes No	Description orderCode			
Response Example	" co	de": 20		556152044637	7"		
Description							

Cancel Order

URL	https://{DOMAIN}/v1/order/cancel						
Request Method	POST						
Content-Type							
Parameters	Name	Туре	Required	d Description	on		
	openId	String	Yes				
	appld	String	Yes				
	keyTime	String	Yes				
	sign	String	Yes				
	orderCod	String	Yes				
	appSyste	n Intege	er no	1-IOS			
				2-Android	d		
				3-PC			
				DEFAULT:2	2		
	"Content-Type: application/json" -d '{ "appld": "3Idw0k0OG5QGiGVIsnn8bAEFCwVxkrCm", "appSystem": 0, "keyTime": "1602847281;1602847881", "openId": "ylQb9Kz1WWaNnYhAHDaTBgdA0dhyUrn1", "orderCode": "2010161115561520446377", "sign": "h1D2EqiyxOatM+1sqVqEv03Nq3U="}'						
Response							
Response	Name	Туре	Required	Description			
	code I	nteger	'es				
	msg S	String	es es				
Response Example							
Toopense Example	"ms	de": 2 g": "si ta": ni	uccess",				

Description

Renew Order

URL	https://{DOMAIN}/v1/order/renew							
Request Method	POST	POST						
Content-Type								
Parameters	Name	Туре	e Require	ed Description	1			
	openId	String	y Yes					
	appld	String	y Yes					
	keyTime	keyTime String sign String						
	sign							
	orderCo	de String	y Yes					
	appSyst	em Integ	er no	1-IOS				
				2-Android				
				3-PC				
				DEFAULT:2				
Response	AEFCwVxkrCm", "appSystém": 0, "keyTime": "1602847281;1602847881 "openId": "ylQb9Kz1WWaNnYhAHDaTBgdA0dhyUrn1", "orderCode": "2010161115561520446377", "sign": "h1D2EqiyxOatM+1sqVqEv03Nq3U="							
	Name	Туре	Required	Description				
	code	Integer	Yes					
	msg	String	Yes					
	data	String	No	orderCode				
		{ "msg": "success", "code": 20000, "data": "2010161115561520446377" }						
Response Example	"msg "cod "dat	e": 200	00,	561520446377	n			