

Game Server API Document

Name	Date	version	remark
Qingping	2020.3.17	1.0.0	created
Qingping	2020.4.22	1.0.1	remove analytic data api
Qingping	2020.4.23	1.0.2	use new api url
Qingping	2020.7.8	1.0.3	add new api
Qingping	2020.7.10	1.0.4	add new api
Qingping	2020.7.15	1.0.5	document format
Qingping	2020.8.3	1.0.6	add error code
Qingping	2020.8.26	1.0.7	add transfer api
HanPeng	2020.9.23	1.0.8	add exchange order api
HanPeng	2020.11.26	1.0.10	add sync user game zone data api
HanPeng	2020.12.9	1.0.10	modify sync user game zone data api add sync order game zone data api
HanPeng	2021.10.14	1.0.11	add Get playing members of group api
HanPeng	2021.11.12	1.0.12	add return value of check order status
HanPeng	2021.12.08	1.0.13	add note of check order status
HanPeng	2022.01.27	1.0.14	add return value of check order status
HanPeng	2022.04.11	1.0.15	add return value of check order status

1、Basic

test : <https://t-api.amusgame.net>

production: <https://api.amusgame.net>

Every API must be called in HTTP post method, with Content-Type:
application/x-www-form-urlencoded

thirdType: GUEST(0), TOTOK(1), FACEBOOK(2), GAMECENTER(3), APPLE(4), Google(5),
TWITTER(6), HUAWEI(7), BOTIM(8), SUPERAPP(9)

2、Signature

Every api request must contains common parameters below:

name	type	description
appId	string	your game app's id,generated by GameCenter
timestamp	long	request time, milliseconds since 1970-01-01
nonce	int	a random number, be different from nonce in the last request
signature	string	all parameters signature

signature generate method:

first, sorted all parameters by parameter name in asc order.

second, concat the sorted parameters , paramStr = "key1=value1&key2=value2"

last, signature = sha256(paramStr + <server secret>)

sha256: a SHA-256 encrypted hash generator method, it is easy to implement with C#,Java,PHP
etc.

<server secret>: generated by GameCenter

3、Auth APIs

Check user access token

request:

POST /gameserver/auth.check_status

userId=293838182132212&userToken=213k3j3321k2k32j33k4k4

the *userToken* is *accessToken* in GameCenter SDK

response:

```
{
  "code": 0,
  "msg": "success",
}
```

code is 0, check success

code isn't 0, check failed, may be illegal *userToken* or *userId*

4、SNS & User APIs

Get all friends

note: SuperApp users are not supported temporarily

request:

```
POST <domain>/gameserver/user.friends
Content-Type: application/x-www-form-urlencoded
userToken=213k3j3321k2k32j33k4k4
```

response:

```
{
  "code": 0,
  "msg": "success",
}
```

```

    "data": [
      {
        "photoUrl": "https://totok-app-test.oss-me-east-1.aliyuncs.co/48c8f8837d2414d8736b479c45a91ebe.jpeg?Expires=1594209577&OSSAccessKeyId=LTAIJWkUjWgW8nc&Signature=%2BLc%2FFVogjQQiRoRps7QPgJzx30A%3D",
        "ttkUid": 86179877528939918,
        "nickname": "师元君"
      }
    ]
  }

```

ttkUid is difference from *userId*, *ttkUid* is used to GameCenterSDK sharing API

Get playing friends

request:

```

POST <domain>/gameserver/user.playing_friends
Content-Type: application/x-www-form-urlencoded

```

```

userToken=213k3j3321k2k32j33k4k4

```

response:

```

{
  "code": 0,
  "msg": "success",
  "data": [
    {
      "photoUrl": "https://totok-app-test.oss-me-east-1.aliyuncs.co/48c8f8837d2414d8736b479c45a91ebe.jpeg?Expires=1594209577&OSSAccessKeyId=LTAIJWkUjWgW8nc&Signature=%2BLc%2FFVogjQQiRoRps7Q

```

```
PgJzx3OA%3D",
    "userId":86179877528939918,
    "thirdUid":86179877528939918, //totok uid
    "thirdType":1, // thirdType=1 means totok user
    "nickname":"师元君"
  }
]
}
```

Get playing members of group

note: SuperApp users are supported only

request:

```
POST <domain>/gameserver/user.playing_members
Content-Type:application/x-www-form-urlencoded
```

```
userToken=213k3j3321k2k32j33k4k4
groupId=adf234324dsfas
```

response:

```
{
  "code":0,
  "msg":"success",
  "data":[
    {
      "photoUrl":"https://totok-app-test.oss-me-east-1.aliyuncs.c
o/48c8f8837d2414d8736b479c45a91ebe.jpeg?Expires=1594209577&OSS
AccessKeyId=LTAIJWKkUjWgW8nc&Signature=%2BLc%2FFVogjQQiRoRps7Q
PgJzx3OA%3D",
      "userId":86179877528939918,
      "thirdUid":86179877528939918, //totok uid
```

```
    "thirdType":1, // thirdType=1 means totok user
    "nickname":"师元君"
  }
]
}
```

Sync ranking data

synchronize the ranking data of players playing the game

request:

POST <domain>/gameserver/sync.rank_data

rank_type=<rankType>&*rank_data*=<rankData>

<rankType>: an identifier for game ranking type.

<rankType>	comment
0	game level
1	game score
2	game checkpoint

<rankData>: a json string for a pair list,

```
[[<userId>,<value>],[<userId>,<value>],[<userId>,<value>]]
```

<userId> is GameCenter platform user's id, it's callback by GameCenter SDK auth method

<value> is the value for the ranking type, a number

for example:

```
[[1232938202023,23],[139328288232212,12322],[12384829399444,1]]
```

response:

```
{
  "code": 0,
  "msg": "success"
}
```

limited:

less than 1000 users rank data in one api request .

one user rank data only one submit every day .

user rank data need not submit if it is no changed .

Sync user game zone data

synchronize the game zone data of players playing the game

request:

POST <domain>/gameserver/sync.user_game_zone_data

user_game_zone_data=<userGameZoneData>&user_game_zone_type=<userGameZoneType>

<userGameZoneData>: a json array string,

```
[[<userId>,<gameZone>,<roleCreateTime|roleActiveTime>],[<userId>,<gameZone>,<roleCreateTime|roleActiveTime>],[<userId>,<gameZone>,<roleCreateTime|roleActiveTime>]]
```

<userGameZoneData>:

1: create

2: active

<userId> is GameCenter platform user's id, it's callback by GameCenter SDK auth method

<gameZone> is the value for the game zone, a number[0,32767]

<roleCreateTime> role create timestamp, milliseconds since 1970-01-01

<roleActiveTime> role active timestamp, milliseconds since 1970-01-01

for example:

```
user_game_zone_data=[[1,1,1],[2,2,2],[3,3,3]]&user_game_zone_type=1
```

response:

```
{
  "code": 0,
  "msg": "success"
}
```

limited:

no more than 1000 eles in *userGameZoneData* in one api request .

only create role event in one game zone need submit immediately.

one create role event need submit only once.

Sync order game zone data

synchronize the game zone data of players order

request:

POST <domain>/gameserver/sync.order_game_zone_data

order_game_zone_data=<orderGameZoneData>

<orderGameZoneData>: a json array string,

```
[[<orderId>,<gameZone>],[<orderId>,<gameZone>],[<orderId>,<gameZone>]]
```

<orderId> is callback by the SDK payment method

<gameZone> is the value for the game zone, a number[0,32767]

for example:

```
order_game_zone_data=[[1,1],[2,2],[3,3]]
```

response:

```
{  
  "code": 0,  
  "msg": "success"  
}
```

limited:

no more than 1000 eles in *orderGameZoneData* in one api request .

one create order event need submit only once immediately.

5、Order & Pay & Transfer APIs

Check order status

request:

POST <domain>/gameserver/order.check_status

orders=<orderId>,<orderId>

the <orderId> is callback by the SDK payment method

response:

```
{  
  "code": 0,  
  "msg": "success",  
  "data": {  
    "144612098616033280": {  
      "checked": 0,  

```

```

    "gameId":126847495400849409,
    "orderId":144612098616033280,
    "payTime":0,
    "amount":100, //unit cents
    "currency":"AED",
    "sku":"001", // 商品代码
    "status":0, // not pay
    "env":0, // 0: 沙盒; 1: 生产
    "gameZone":-1, // 区服
    "test":false, // 是否测试用户订单
    "orderRef":""," // 三方订单 id
    "orderToken":""," // 三方订单 token
    "payedAfterFailed":false, // 完成支付前是否失败过
    "cpOrderId":""," // 游戏订单 ID
  },
  "141641699233734684":{
    "checked":1,
    "gameId":126847495400849409,
    "orderId":141641699233734684,
    "payTime":1582019617910,
    "amount":100, //unit cents
    "sku":"001", // 商品代码
    "currency":"AED",
    "status":1,
    "env":1, // 0: 沙盒; 1: 生产
    "gameZone":1, // 区服
    "test":false, // 是否测试用户订单
    "orderRef":""," // 三方订单 id
    "orderToken":""," // 三方订单 token
    "payedAfterFailed":false, // 完成支付前是否失败过
    "cpOrderId":""," // 游戏订单 ID
  }
}
}
}

```

status=1, order has been payed

status=0, order isn't payed yet

status=3, order has been reset,may be a illegal order

checked=0, order status is not the final status

checked=1, order status is the final status

if status=1 , items of the order should be sent to user's account

if checked=1 and status=0 or status=3 , the order should be forced to cancel

cpOrderId and orderId are one-to-one and globally unique. If cpOrderId has a value, you need to verify the corresponding relationship between cpOrderId and orderId

note:

You can use backoff query. For example:

- (0,30] second: do query 3 second fix delay
- (30, 600] second: do query 1 minute fix delay
- (10, 1440] minute: do query 30 minute fix delay
- (1440, +00] minute: then give up and mark it

add exchange order

when player exchanging the code get from khalaspay, record the purchase order

request:

POST <domain>/gameserver/order.new_exchange

userId=XXXX&channel=5&env=XXXX&sku=XXXX&orderRef=XXXX&amount=xxxx¤cy=U

SD

userId:is GameCenter platform user's id, it's callback by GameCenter SDK auth method

channel:"5" fixed

env:payment environment.0,sandbox;1,production
sku:product id
orderRef:transaction id
amount: price, accurate to 2 decimal places, like:"100.23"
currency: "USD" fixed

response:

```
{  
  "code":0,  
  "msg":"success",  
  "data":"566422073705434171" //orderId  
}
```

Create&submit transfer order

transfer from merchant account to user's wallet

request:

POST <domain>/gameserver/transfer.new

userToken=213k3j3321k2k32j33k4k4&amount=xxxx¤cy=AED

amount: withdraw amount, accurate to 2 decimal places, like:"100.23"
currency: "AED" fixed

response:

```
{  
  "code":0,  
  "msg":"success",  
  "data":"566422073705434171" //transferId  
}
```

Check transfer status

request:

POST <domain>/gameserver/transfer.check_status

transfers=<transferId1>,<transferId2>

the <transferId> is callback by the "Create&submit transfer order"

response:

```
{
  "code":0,
  "msg":"success",
  "data":{
    "141641699233734684":{
      "user_id":645633159128785116,
      "gameId":126847495400849409,
      "transferId":141641699233734684,
      "amount":100, //unit cents
      "currency":"AED",
      "status":1
    }
  }
}
```

status=0, transfer created

status=1, transfer submitted to gateway

status=2, transfer success

status=3, transfer failed

6、Error codes

code	msg
------	-----

0	success
900	internal error
920	unauthorized request, need login.
921	<pre>{"reason":"","expired":milliseconds}</pre> this code means user was blocked
922	unauthorized request, invalid access token
923	no permission
924	invalid access token, another client was authorized.
998	duplicate operation
999	invalid parameter
370004	transfer failed, rejected by pay gateway