



## Transfer Wallet API

Integration Manual v1.32

## 转账钱包 API

集成手册 版本 1.32

## Version Control 版本控制

Version 版本	Date 日期	Author 作者	Description 描述
1.0	Sep 2015	Daniel	<ul style="list-style-type: none"> <li>Initial release</li> </ul>
1.1	Oct 2015	Daniel	<ul style="list-style-type: none"> <li>Clarification of the language code in the game-launch URL.</li> <li>Updated completion and cancellation request</li> </ul>
1.2	Nov 2015	Daniel	<ul style="list-style-type: none"> <li>Updated the prepare fund-transfer path from /v1/fund-transfer to /v1/fund-transfers to match the implementation</li> <li>New chapter "Player Creation" to clarify the creation of players.</li> <li>Added examples for real and demo mode for the game launcher.</li> <li>New Game Transactions API</li> <li>New Game List API</li> </ul>
1.3	Dec 2015	Daniel	<ul style="list-style-type: none"> <li>New NGR player report API</li> </ul>
1.4	Jan 2016	Daniel	<ul style="list-style-type: none"> <li>Additional "optional" parameters when retrieving the game-launch url: gender and birthdate.</li> <li>New Game Rounds API</li> <li>Supported languages and currencies for the Game List API</li> </ul>
1.5	Mar 2016	Daniel	<ul style="list-style-type: none"> <li>Additional walletTransactionId and roundStatus fields in the Game Transactions endpoint for the Service API.</li> </ul>
1.6	Sep 2016	Daniel	<ul style="list-style-type: none"> <li>Added 409 as possible error on prepare fund-transfer request.</li> <li>Removed walletSessionId from the game launch url request.</li> <li>New Player Game History page</li> </ul>
1.7	Oct 2016	Daniel	<ul style="list-style-type: none"> <li>Changed title to "Transfer Wallet"</li> <li>Changed the Game Launcher request to be device specific.</li> <li>Support of GET on Authentication request.</li> </ul>
1.8	Nov 2016	Daniel	<ul style="list-style-type: none"> <li>Extra fields in the "Game List" response.</li> </ul>
1.9	Jun 2017	Daniel	<ul style="list-style-type: none"> <li>New Service API: Game Round Details</li> <li>Corrected response example in "Retrieve Player Balance".</li> </ul>
1.10	Aug 2017	Daniel	<ul style="list-style-type: none"> <li>Increased maximum number of records per page when retrieving game rounds and transactions from Service API. New max-size is 500 per page.</li> <li>Possibility to search game-rounds on initiated (default) or completed date.</li> <li>New Service API: Most Popular Games</li> </ul>
1.11	Nov 2017	Daniel	<ul style="list-style-type: none"> <li>Bonus details in Game Rounds, Game Round Details Service API</li> <li>Possibility to specify bet limit per player and game upon game launch</li> </ul>
1.12	Mar 2018	Daniel	<ul style="list-style-type: none"> <li>Clarification when retrieving balance of non-existing player</li> <li>Clarification about minimum amount for transfers</li> <li>Translation corrections.</li> <li>Increased maximum number of records per page when retrieving game rounds and transactions from Service API. New max-size is 1000 items per page.</li> <li>New Service API: Create Free Round Promotion</li> </ul>
1.13	Aug 2018	Daniel	<ul style="list-style-type: none"> <li>Additional optional parameters in game launch request <ul style="list-style-type: none"> <li>ipAddress</li> <li>jurisdiction</li> </ul> </li> <li>Update examples with existing and playable game.</li> </ul>

## Version Control 版本控制

Version 版本	Date 日期	Author 作者	Description 描述
1.14	Dec 2018	Jewel	<ul style="list-style-type: none"> <li>Updated the Player Game History page.</li> <li>Maximum length of playerId: 34 characters</li> <li>New jurisdictions: CW (Curacao) and PH (Pagcor)</li> </ul>
1.15	Apr 2019	Adrian	<ul style="list-style-type: none"> <li>Adjusted the expiration time for an access token to 6 hours.</li> <li>Included bonusId field on the response of "Create Free Round Promotion".</li> <li>New Service APIs: <ul style="list-style-type: none"> <li>Get Free Round Promotion</li> <li>Delete Free Round Promotion</li> </ul> </li> </ul>
1.16	May 2019	Jewel	<ul style="list-style-type: none"> <li>New Game Lobby page</li> <li>Possible to autogenerate round options when creating free round promotions</li> </ul>
1.17	June 2019	Daniel	<ul style="list-style-type: none"> <li>Free Round Promotions Overview (chapter 2.5)</li> <li>Clarification of valid values for txnId and promoCode when creating free round promotions.</li> <li>Possible to determine what game categories to be displayed in the main navigation menu in the Game Lobby.</li> </ul>
1.18	Sep 2019	Daniel	<ul style="list-style-type: none"> <li>New Service API: Game Bet Values (chapter 8.2)</li> </ul>
1.19	Nov 2019	Daniel	<ul style="list-style-type: none"> <li>New optional "gameLaunchTarget" field in Game Lobby request, to determine in what frame or window the mobile game should be launched.</li> <li>Removal of "page" parameter in search request in Game Transactions and Game Rounds.</li> <li>New "gameProviderRoundId" in the response from Game Rounds.</li> </ul>
1.20	Dec 2019	Daniel	<ul style="list-style-type: none"> <li>Optional "displayName" field in Game Launcher and Game Lobby request.</li> </ul>
1.21	Jan 2020	Daniel	<ul style="list-style-type: none"> <li>Possibility to create non-rejectable Free Round Promotions.</li> </ul>
1.22	Mar 2020	Daniel	<ul style="list-style-type: none"> <li>New mode "real_only" for game lobby, to configure the lobby to launch games in real mode only.</li> <li>New game type "LIVE_CASINO" for game lobby.</li> </ul>
1.23	Jun 2020	Daniel	<ul style="list-style-type: none"> <li>Recommendation to reuse the access token and clarification when to issue a new token.</li> <li>New game types "VIRTUAL_GAMES", "CASUAL_GAMES" and "ESPORTS" for game lobby.</li> <li>New Service API: Get Jackpots</li> </ul>
1.24	Oct 2020	Julie	<ul style="list-style-type: none"> <li>Additional response parameters in Game Round Details, Game Rounds and Game Transactions <ul style="list-style-type: none"> <li>totalJpContribution</li> <li>totalJpPayout</li> </ul> </li> <li>Additional game result url property in Game Round Details</li> </ul>
1.25	Mar 2021	Julie	<ul style="list-style-type: none"> <li>New jurisdiction: DE (Germany)</li> <li>New status for Free Round Promotion: Expired</li> </ul>
1.26	Jun 2021	Julie	<ul style="list-style-type: none"> <li>Optional "tableId" field in Game Launcher request (chapter 5.1)</li> <li>Optional configurable menu display in Game Lobby request (chapter 7.1)</li> <li>Additional response parameter "betId" in Game Round Details for Payout transactions (chapter 8.5)</li> <li>Additional response parameter "betId" in Game Transactions (chapter 8.6)</li> </ul>
1.27	Jan 2022	Maki	<ul style="list-style-type: none"> <li>Replaced Game List API with the v2 endpoint (chapter 8.1)</li> </ul>
1.28	Mar 2022	Julie	<ul style="list-style-type: none"> <li>Detailed description for Virtual Currency support. (ch 4)</li> <li>Updated the following endpoints related to Virtual Currency:</li> </ul>

			<ul style="list-style-type: none"> <li>◦ Prepare a Transfer (ch 4.1)</li> <li>◦ Complete Transfer (ch 4.2)</li> <li>◦ Cancel Transfer (ch 4.3)</li> <li>◦ Retrieve Transfer Details (ch 4.4)</li> <li>◦ Retrieve Player Balance (ch 4.5)</li> <li>◦ Game Launch (ch 5.1)</li> <li>◦ Game Lobby (ch 7.1)</li> <li>◦ Game Round ((ch 8.4)</li> <li>◦ Game Round Details (ch 8.5)</li> <li>◦ Game Transactions (8.6)</li> </ul>
1.29	May 2022	Mae	<ul style="list-style-type: none"> <li>• Updated Game List API to include details about the links field</li> <li>• Add Game Images Section</li> <li>• Add Support for Field Specific Response</li> </ul>
1.30	June 2022	Geneva	<ul style="list-style-type: none"> <li>• Added Search feature and updated Example Request to add the Search parameter (ch 7.1)</li> <li>• Moved the walletCurrency above config parameter (ch 7.1)</li> </ul>
1.31	Aug 2022	Geneva	<ul style="list-style-type: none"> <li>• Added section for format in Game Images (8.1.4)</li> <li>• Added section for exitButton in Game Lobby Request (7.1)</li> <li>• Updated the description for exit in Game Lobby Request (7.1)</li> </ul>
1.32	Aug 2022	Geneva	<ul style="list-style-type: none"> <li>• Updated the images section to update the logo to logo-round and add logo-square in Response (8.1.2)</li> <li>• Updated example response in Response (8.1.2)</li> <li>• Updated the type section to update the logo to logo-round and add logo-square in Game Images(8.1.4)</li> <li>• Added logo-square image and sample URL and updated logo-round sample URL in Game Images(8.1.4)</li> </ul>
1.33	Sept 30	Mae	<ul style="list-style-type: none"> <li>• Update the example request for most popular (8.3.1)</li> </ul>

# Contents 内容

1	Introduction 引言	7
1.1	Audience 读者	7
1.2	Terminology 术语	7
2	Overview 概观	8
2.1	Formats 格式	8
2.2	Idempotency 幂等	9
2.3	Player Creation 创建玩家	9
2.4	Error Handling 错误处理	9
2.5	Free Round Promotions 免费游戏局活动	10
3	Authentication 认证	12
3.1	Retrieve an Access Token 检索访问令牌	12
3.2	Revoke an Access Token 撤销访问令牌	14
4	Transfer Wallet 转账钱包	15
4.1	Prepare a Transfer 准备一个转账	15
4.2	Complete Transfer 完成交易	19
4.3	Cancel Transfer 取消交易	23
4.4	Retrieve Transfer Details 检索转账细节	26
4.5	Retrieve Player Balance 检索玩家余额	28
5	Game Launcher 游戏启动	31
5.1	Request 请求	31
5.2	Response 响应	34
5.3	Possible Errors 可能的错误	34
6	Player Game History 玩家游戏历史记录	36
6.1	Request 请求	38
6.2	Response 响应	39
6.3	Possible Errors 可能的错误	40
7	Game Lobby 游戏大厅	41
7.1	Request 请求	41
7.2	Response 响应	45
7.3	Possible Errors 可能的错误	47
8	Services 服务	48
8.1	Game List 游戏列表	48
8.2	Game Bet Values 游戏投注金额	54
8.3	Most Popular Games 热门游戏	57
8.4	Game Rounds 游戏局	60
8.5	Game Round Details 游戏局细节	65
8.6	Game Transactions 游戏交易	70
8.7	NGR per player 每个玩家的 NGR	75

8.8	Create Free Round Promotion 创建免费游戏局.....	80
8.9	Get Free Round Promotion 获取免费游戏局.....	84
8.10	Delete a Free Round Promotion 删除免费游戏局.....	92
8.11	Get Jackpots 获取奖池.....	94

# 1 Introduction 引言

This document describes the Transfer Wallet integration endpoints, which the Operator needs to integrate to be able to perform money transfers between the player wallet in the Operator system and the player wallet in QT Platform.

The document is applicable for Operators where the QT Casino wallet is being handled by the QT Platform.

本文档描述了转移钱包集成终端，运营商需要集成终端以便能够在运营商系统中的玩家钱包和 QT 平台中的玩家钱包之间进行资金转移。

该文件适用于运营商的 QT 赌场钱包由 QT 平台处理。

## 1.1 Audience 读者

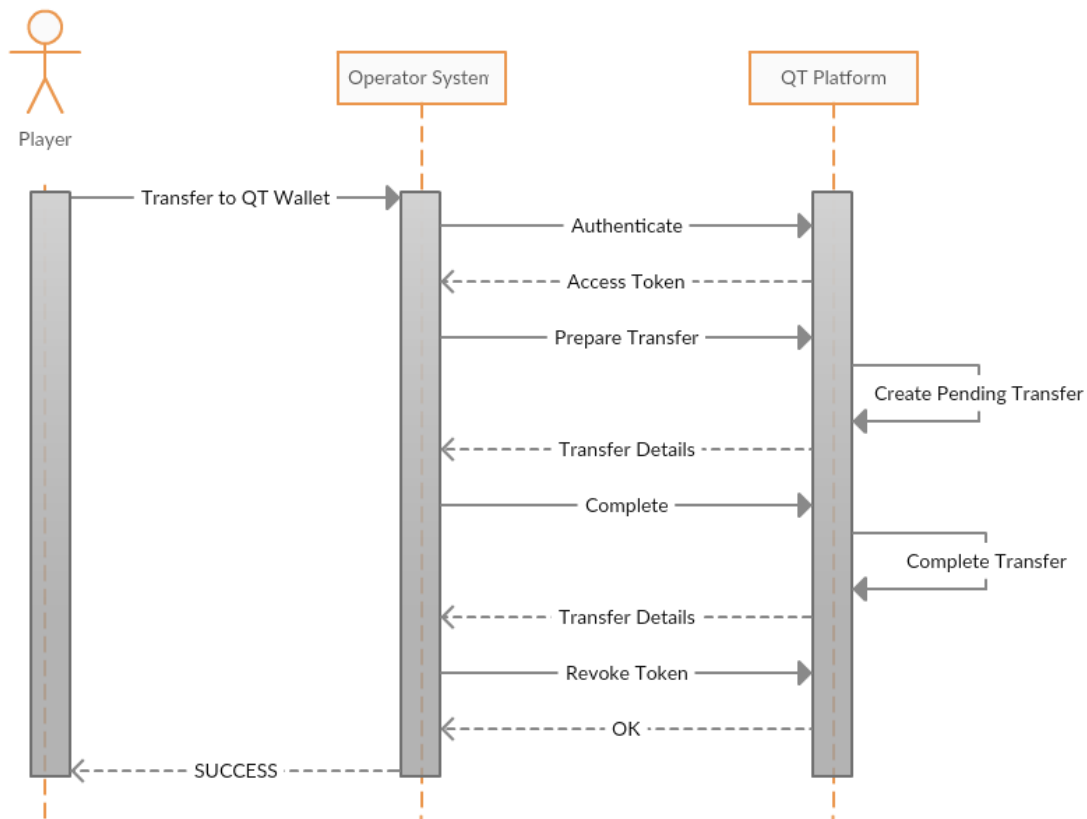
This document is suitable for System/Solution Architects, Software Developers, Technical Project Managers and Technical Business Analysts.

该文件适用于系统 / 方案架构师，软件开发，技术项目经理和技术业务分析师。

## 1.2 Terminology 术语

Term 词	Definition 定义
Transfer Wallet 转账钱包	In this document, a transfer of player's money between the wallet in Operator system and wallet in the QT Platform and vice versa. 在这份文件中，玩家资金在运营商系统钱包和 QT 平台商系统钱包里转换。
QT QT	QTech, a B2B casino game provider. Qtech, 一个 B2B 的赌场游戏供应商。
QT Platform QT 平台	The casino provider system, hosted by QT. 该赌场提供的系统由 QT host.
QT Wallet QT 钱包	The player's wallet within QT Platform. QT 平台内的玩家的钱包。
Operator 运营商	A casino operator, providing online casino services to players. The operator holds the B2C gaming license. 一个赌场运营商，为玩家提供在线赌场服务。运营商拥有了 B2C 博彩牌照。
Operator Wallet 运营商钱包	The player's wallet within Operator system. 运营商系统内的玩家的钱包。
Player 玩家	A customer who has a player account at the Operator system. 拥有在运营商系统中的玩家账户的客户。

## 2 Overview 概观



The server-to-server communication between the Operator system and QT Platform is uni-directional (one way). All requests must be performed from the Operator system.

A wallet transfer between the Operator system and QT Platform is being performed in two (2) steps, to be more failsafe and to allow cancellations or automatically rollbacks.

The first step prepares the wallet transfer, which creates a PENDING transaction within the QT Platform. The second step completes or cancels the transfer.

If a PENDING transfer has not being completed (or cancelled) within 10 seconds, the transfer will automatically be CANCELLED. A transaction which is in its final state, i.e. COMPLETED or CANCELLED, can never be changed.

运营商系统和 QT 平台之间的服务器到服务器的通信是单向的（单程）。所有请求都必须从运营商系统进行。

在运营商系统和 QT 平台之间的钱包转账需要两（2）个步骤执行，以更安全地并且允许取消或自动回滚。

第一步准备钱包转账，在 QT 平台内创建一个 PENDING 交易。第二步完成或取消转账。

如果待定的转账在 10 秒内还没有被完成（或取消），此转账将自动被取消，这是它的最终交易状态，即完成或已取消，永远不能改变。

### 2.1 Formats 格式

The Transfer Wallet endpoints in QT Platform are being exposed as RESTful web services with JSON as the data-interchange format and with the character encoding UTF-8.

The currency code within the QT Platform, i.e. in all requests and responses, is expressed as 3-letters code according to standard ISO 4217. For example "CNY".

The country code within the QT Platform is presented as 2-letter code according to standard ISO 3166-1 alpha-2. For example "CN".

The language code with QT Platform is presented as a combination of the 2-letter language code (ISO 639-1) and the 2-letter country code (ISO 3166-1 alpha-2). For example "zh\_CN".

The date and time within the QT Platform is being presented in CST (China Standard Time) according to standard ISO 8601. The time is presented in "military time", i.e. 24-hours clock.

QT 平台中的 Transfer Wallet 端点作为 RESTful Web 服务公开，使用 JSON 作为数据交换格式，并使用 UTF-8 编码。



在 QT 平台中的货币代码，即在所有的请求和响应，符合标准 ISO 4217 例如“人民币”被表示为 3 字母代码“CNY”。

在 QT 平台中的国家代码是按照标准 ISO3166- 1 alpha-2 显示为 2 个字母的代码。例如，“CN”。

与 QT 平台中的语言代码是符合标准 ISO 639-1 表现为 2 个字母的代码。例如，“zh\_CN”

符合标准 ISO 8601 的时间显示在“军用时间”，即 24 小时时钟 QT 平台中的日期和时间被呈现在 CST(中国标准时间)。

**Format 格式** YYYY-MM-DDThh:mm:ss

**Example 案例** 2015-09-10T13:14:51

## 2.2 Idempotency 幂等

All of the transfer wallet endpoints are idempotent, meaning same transfer can be retried in case of error but the retry will not result to new transaction in QT Platform. A retry will return the original response.

所有转账钱包端点都是幂等的，这意味着在出现错误的情况下可以重试相同的交易，但重试不会导致 QT Platform 中的新交易。重试将返回原始响应。

## 2.3 Player Creation 创建玩家

There's no specific "Create Player" endpoint. A Player gets automatically created on the first fund transfer, as described in "Prepare a Transfer 准备一个转账" or when launching a game, as described in "Game Launcher 游戏启动"

没有具体的“创建玩家”端点。当玩家第一次转账的时候这个玩家账号就被自动创建了，在“准备转账”中有相关描述，或者当启动一个游戏的时候，在“游戏启动”中有相关描述。

## 2.4 Error Handling 错误处理

Sometimes errors can happen during a request. In case of an error, the response must be reflected both in the header (HTTP status code) and with a response body, containing an error code and message. All errors will return HTTP status code 4xx or 5xx.

有时在请求期间可能发生错误。在发生错误的情况下，该响应必须同时在头部（HTTP 状态码）和响应主体（包含错误代码与信息）中体现。所有错误将返回 HTTP 状态码 4xx 或 5xx。

```
HTTP Status: 422
Content-Type: application/json

{
  "code": "VALIDATION_ERROR",
  "message": "The request could not be processed due to incorrect parameters."
}
```

Each API definition will explain in detail what possible errors (http status, code and message) that can occur.

每个 API 定义将会详细解释可能出现的错误（http status, code and message）。

## 2.5 Free Round Promotions 免费游戏局活动

The QT platform supports two types of free round promotions; Fixed or Flexible.

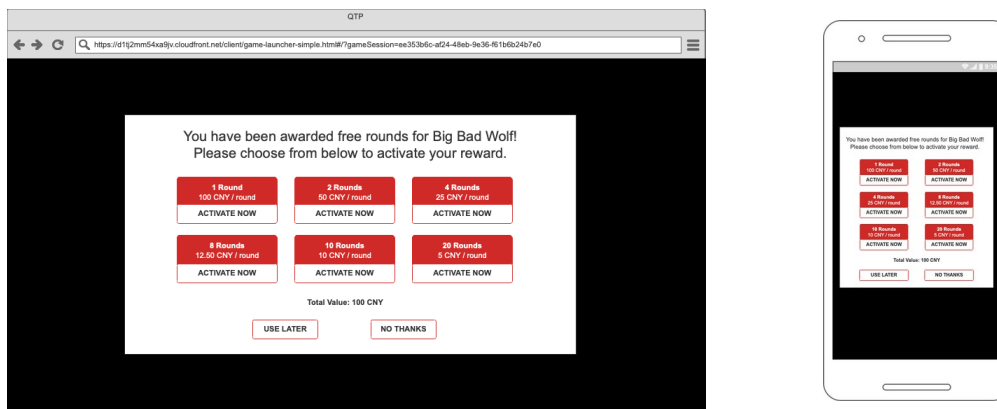
A Fixed promotion is where the operator decides a fixed number of rounds and amount for a certain player and promotion.

A Flexible promotion is where the operator can automatically generate different round options for the player to choose from, based on the rewarded bonus amount. This option gives more flexibility for the player, to select a round option that best matches his/her bet strategy.

QT 平台支持两种类型的免费游戏局：预设定的或者可调整的

预设定的免费游戏局是指运营商为指定的玩家和活动，选择预定的游戏局数量和每局的投注额。

可调整的免费游戏局是指运营商可以根据奖励的金额自动生成不同的游戏局选项供玩家选择。这个选项可以为玩家提供更大的灵活性，选择最符合他/她的投注策略的游戏局选项。



To create free round promotions, the operator can either use the campaign tool in Back Office or use our API, as explained in chapter "8.8 Create Free Round Promotion".

运营商可以使用 QT 后台的活动工具或者通过 API 来创建免费游戏局，在 API 文档 8.8 章节“CreateFreeRoundPromotion 创建免费游戏局”有详细说明。

### 2.5.1 Free Round Result 免费游戏局活动结果

The result of a played free round promotion will be delivered in one or several game rounds, where each round will start with a 0-amount withdrawal transaction followed by one or several deposit transactions. The bonus type and the promotion code, which was given when creating the promotion, will be passed in every withdrawal and deposit transaction.

For example – a player has been promoted with 2 free rounds with a bet amount of 20.00 CNY per round, with promotion code "123".

一个完成的免费游戏局活动的结果会作为一个游戏局或者分成多个游戏局来传递。每个游戏局会以一个金额为 0 的提款交易开始，后面会有一个或多个存款交易。

示例：一个玩家得到 2 局免费游戏活动，每局游戏的投注金额为 20 元，免费游戏局活动代码为“123”

#### Example Result Sequence 1 – multiple rounds per promotion

##### Round 1

Withdrawal (amount=0.00, bonusAmount=20.00, roundId=1, bonusType="FREE\_ROUND", bonusPromoCode="123", completed=false)

Deposit (amount=0.00, roundId=1, bonusType="FREE\_ROUND", bonusPromoCode="123", completed=true)

##### Round 2

Withdrawal (amount=0.00, bonusAmount=20.00, roundId=2, bonusType="FREE\_ROUND", bonusPromoCode="123", completed=false)

Deposit (amount=5.00 roundId=2, bonusType="FREE\_ROUND", bonusPromoCode="1233445", completed=true)

## Example Result Sequence 2 – single round per promotion

### Round 1

Withdrawal (amount=0.00, bonusAmount=20.00, roundId=1, bonusType="FREE\_ROUND", bonusPromoCode="123", completed=false)

Deposit (amount=5.00, roundId=1, bonusType="FREE\_ROUND", bonusPromoCode="123", completed=true)

## 2.5.2 Free Round Status 免费游戏局活动的状态

The status of a certain promotion can be displayed in the Back Office or be requested from the API, as described in "Get Free Round Promotion 获取免费游戏局".

A Free Round Promotion can be in one of the following states:

指定免费游戏局活动的状态可以在 QT 后台中显示，或者通过 API 请求获取。在 API 请求时可参考章节 8.9

GetFreeRoundPromotion 获取免费游戏局。

免费游戏局可以处于以下的状态：

Status	Description
PROMOTED	The operator has assigned the free round to the player. 运营商已将免费游戏局分配给玩家。
CLAIMED	The player has activated the promotion by launching the game and selecting a specific round option. 玩家通过选择特定的局数选项接受免费游戏局。
IN_PROGRESS	The player has started to play the free rounds, ie at least one free round has been completed. 玩家已开始使用免费游戏局，并至少完成一轮免费局。
COMPLETED	The player has completed all the free rounds in the promotion. 玩家已完成免费游戏局的所有局数。
DELETED	The promotion was deleted by the operator. 运营商删除免费游戏局。
CANCELLED	The promotion was rejected by the player. 玩家拒绝免费游戏局。
FAILED	The creation of the promotion failed on the game server. 创建免费游戏局失败。
EXPIRED	The validity period of the promotion has lapsed since the time when it was claimed. 由于已经被认领，促销活动的有效期已过。

The status of a Free Round Promotion can have the following transitions:

免费游戏局的状态可以包含以下内容：

PROMOTED → CLAIMED → IN\_PROGRESS → COMPLETED

PROMOTED → CLAIMED → IN\_PROGRESS → EXPIRED

PROMOTED → CLAIMED → FAILED → PROMOTED

PROMOTED → CLAIMED → EXPIRED

PROMOTED → DELETED

PROMOTED → CANCELLED

## 3 Authentication 认证

All web service endpoints are protected and must be performed over the encrypted HTTPS protocol. The QT Platform supports token-based authorization with OAuth 2.0.

To be able to access the Transfer Wallet API, the caller needs to retrieve an access token. The retrieved access token must be passed in the header in all communications with the Transfer Wallet API:

所有的 web 服务端点都是受保护的，必须通过加密的 HTTPS 协议进行的。在 QT 平台支持使用 OAuth 2.0 令牌的授权。为了能够访问转账钱包 API，呼叫者需要检索访问令牌。检索的访问令牌必须在 Transfer Wallet API 中所有通信的数据头中传递：

**Format 格式** Authorization: Bearer {access\_token}

**Example 案例** Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

### 3.1 Retrieve an Access Token 检索访问令牌

#### NOTE!

It is recommended to reuse the same access token for several API calls. A new access token should be issued if the current token has expired, ie when the API call responds with error code of "INVALID\_TOKEN" and a HTTP Status code of 401.

#### 注意！

建议将相同的访问令牌重复用于多个API调用。如果当前令牌已过期，即当API调用以错误代码“INVALID\_TOKEN”和HTTP状态代码401响应时，才需要检索新的访问令牌。

#### 3.1.1 Request 请求

##### Request URL 请求链接

https://{qtplatform}/v1/auth/token?  
grant\_type=password&response\_type=token&username={username}&password={password}

##### HTTP Method HTTP 方法

POST or GET

##### Query Parameters 查询参数

Name	Description	Required	Type	Sample
grant_type	The type of authentication. This parameter must be set to "password". 身份验证的类型，此参数必须设置为“password”。	Yes	String	password
response_type	The expected type of response. This parameter must be set to "token". 预期响应的类型，此参数必须设置为“token”。	Yes	String	token
username	The username of the caller, provided by QT. 呼叫者的用户名，由 QT 提供。	Yes	String	o1
password	The password of the caller, provided by QT. 呼叫者的密码，由 QT 提供。	Yes	String	56036ccf8e

##### Example Request 请求示例

POST https://api-int.qtplatform.com/v1/auth/token?  
grant\_type=password&response\_type=token&username=o1&password=56036ccf8e  
Accept: application/json

### 3.1.2 Response 响应

#### HTTP Status Code

200 OK

#### Response Parameters

Name	Description	Type	Sample
access_token	The access token to be used in all search, report and launch-url requests. 在所有的搜索，报告和发布，URL 请求中使用的访问令牌。	String	test1234
expires_in	The number of milliseconds after which the access token expires and is no longer valid (idle time). The expiration time will be reset for every use of the access token. Default is 21600000 milliseconds = 21600 seconds = 6 hours. 毫秒数之后访问令牌到期且不再有效（闲置时间）。每次使用访问令牌时，到期时间将重置。默认值是 21600000 毫秒= 21600 秒= 6 小时。	Number	21600000

#### Example Response

```
HTTP Status: 200
Content-Type: application/json

{
  "access_token": "76236f90-dc9c-36d7-9e78-3e716d5ecf92"
  "expires_in": 21600000
}
```

### 3.1.3 Possible Errors 可能的错误

Code	HTTP Status	Description
VALIDATION_ERROR	422	This error is raised if the request could not be processed, ie if one of the fields within the request are missing or is invalid. 引发此错误，如果该请求不能被处理，也就是说，如果一个请求中的一个字段缺少或无效。
USER_BLOCKED	403	The caller/user is blocked. 呼叫者/用户被阻止。
LOGIN_FAILED	401	The given user or password is incorrect. 用户名或密码错误。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	Service is not available. Temporary down, under maintenance. 服务不可用。临时关闭，正在维护期。

#### Example Error

```
HTTP Status: 422
Content-Type: application/json

{
  "code": "VALIDATION_ERROR",
  "message": "The request could not be processed due to incorrect parameters."
}
```

## 3.2 Revoke an Access Token 撤销访问令牌

Revokes an active access token which will delete the user session within the QT Platform.

撤销一个活跃的访问令牌将会删除 QT 平台中的所有用户对话。

### 3.2.1 Request 请求

#### Request URL

https://{qtplatform}/v1/auth/token

#### HTTP Method

DELETE

#### Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token. 有效的访问令牌。	Yes	String	Authorization: Bearer 76236f90-dc9c- 36d7-9e78- 3e716d5ecf92

#### Example Request

```
DELETE https://api-int.qtplatform.com/v1/auth/token
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
```

### 3.2.2 Response 响应

#### HTTP Status Code

204 No Content

### 3.2.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失, 无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	Service is not available. Temporary down, under maintenance. 服务不可用。临时关闭, 正在维护期。

#### Example Error

```
HTTP Status: 401
Content-Type: application/json

{
  "code": "INVALID_TOKEN",
  "message": "Unauthorized. The given token is invalid."
}
```

## 4 Transfer Wallet 转账钱包

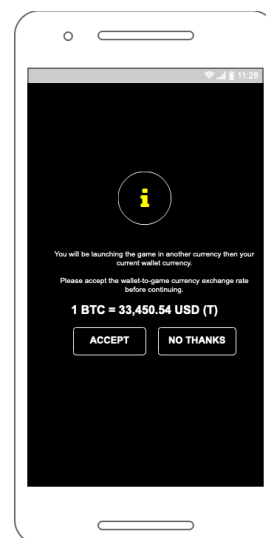
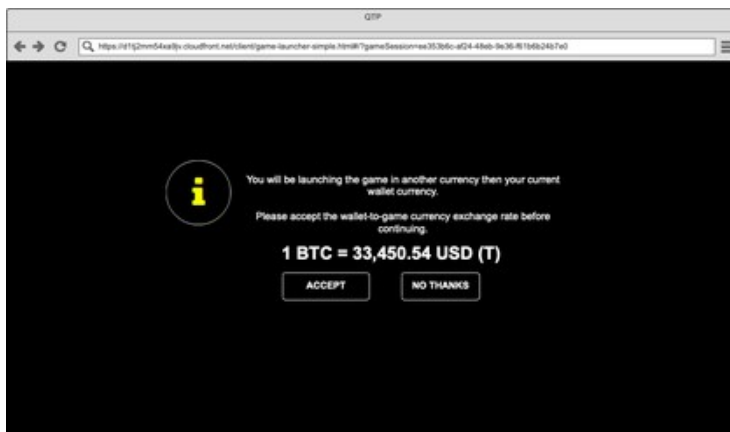
The Transfer Wallet API describes five (6) endpoints; "Prepare Transfer", "Complete Transfer", "Cancel Transfer", "Retrieve Transfer Details", "Retrieve Player Balance" and "Promotion Status".

The QT Platform accepts virtual currencies as player wallet currency. The Operator can choose the game currency its player will use.

The following are the supported virtual currencies: BTC (Bitcoin), ETH (Ethereum), XRP (Ripple), LTC (Litecoin), BCH (Bitcoin Cash). Since these currencies are volatile in nature, the conversion rates that QT Platform offer comes from a trusted third party exchange rates provider that we fetch on a regular basis. We will also be able to support custom fixed currencies which are based on FIAT currencies through this feature.

QT 平台接受虚拟货币作为玩家钱包货币。运营商可以选择其玩家将使用的货币。运营商系统应识别并接受 walletCurrency 和汇率对象作为钱包操作的有效参数。

以下是支持的虚拟货币：BTC (比特币)、ETH (以太坊)、XRP (瑞波币)、LTC (莱特币)、BCH (比特币现金)。由于这些货币本质上是不稳定的，QT 平台提供的汇率来自我们定期获取的值得信



Players will be able to use a virtual currency in the wallet and play the game in a common (ISO) currency, with a given conversion rate to convert the amounts in the transactions and requests to the player wallet. This conversion rate should be accepted by the player and will be used for the whole game session.

玩家将能够在钱包中使用虚拟货币并以通用 (ISO) 货币玩游戏，并以给定的转换率将交易金额和请求中的金额转换到玩家钱包。这个转化率应该被玩家接受，并将用于整个游戏会话。

### 4.1 Prepare a Transfer 准备一个转账

The "Prepare Transfer" endpoint creates a PENDING transfer transaction within the QT Platform. The transfer type can either be a CREDIT, which indicates a deposit to the QT Wallet or a DEBIT, which indicates a withdrawal from the QT Wallet.

"准备转账"端点在 QT 平台内创建一个 PENDING 转账交易。转账类型可以是表示存款到 QT 钱包的 CREDIT，或是表示从 QT 钱包提款的 DEBIT。

If the transfer type is a DEBIT, the amount will be reserved from the player's balance in QT Wallet. If the transfer type is a CREDIT, the amount will be credited to the player's balance upon completion.

如果转账类型是 DEBIT，所述量将从玩家 QT 钱包的余额里保留。如果转账类型是 CREDIT，所述量将在完成时记入玩家的余额里。

**NOTE!**

If the completion call has not been performed within 10 seconds, the PENDING transaction will automatically be CANCELLED. In case of a DEBIT transfer, the reserved amount will be returned to the player's QT Wallet.

**注意！**

如果完成呼叫未在 10 秒内完成，此待定的交易将被自动取消，如果是一个 DEBIT 转账，已保留的量将被返还到玩家的 QT 钱包。

### 4.1.1 Request 请求

**Request URL 请求链接**

https://{qtplatform}/v1/fund-transfers

**HTTP Method HTTP 方法**

POST

**Header Parameters 头参数**

Name	Description	Required	Type	Sample
Content-Type	The content type of the request. It must be "application/json". 该请求的内容类型，它必须是"application/ json 的".	Yes	String	application/json
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

**Payload Parameters**

Name	Description	Required	Type	Sample
type	The transaction type. Valid values are <b>CREDIT</b> or <b>DEBIT</b> . If CREDIT, money adds to the player's QT wallet. If DEBIT, money will be deducted from the QT wallet. 交易类型。有效值为 CREDIT 或 DEBIT。如果是 CREDIT，资金将添加到玩家的 QT 钱包中。如果是 DEBIT，资金将从 QT 钱包中扣除。	Yes	String	CREDIT
referenceId	The unique identifier of the transfer transaction in the Operator system. 在运营商系统中转账交易的唯一标识符。	Yes	String	98765
playerId	The unique identifier of the player in the Operator system. The maximum length is 34 characters. 在运营商系统中玩家唯一的标识符。最大长度为 34 个字。	Yes	String	123456
amount	The requested amount to transfer. For fiat, the maximum decimal places is 2. While for virtual currencies, the maximum decimal places is 8. 请求的转账金额。对于法定货币，最大小数位数为 2。而对于虚拟货币，最大小数位数为 8。	Yes	Decimal	100.00
currency	The 3-letter currency code of the amount to transfer according to ISO 4217 when in fiat or the virtual currency code set. 在法定货币或虚拟货币代码集下根据 ISO 4217 转账金额的 3 个字母货币代码。	Yes	String	CNY

**Example Request – Fiat Currency**



```
POST https://api-int.qtplatform.com/v1/fund-transfers
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Content-Type: application/json
Accept: application/json
```

```
{
  "type": "CREDIT",
  "referenceId": "98765",
  "playerId": "123456",
  "amount": 100.00,
  "currency": "CNY"
}
```

### Example Request – Virtual Currency

```
POST https://api-int.qtplatform.com/v1/fund-transfers
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Content-Type: application/json
Accept: application/json
```

```
{
  "type": "CREDIT",
  "referenceId": "98765",
  "playerId": "123456",
  "amount": 0.01234567,
  "currency": "BTC"
}
```

## 4.1.2 Response 响应

### HTTP Status Code

201 Created

### Response Parameters

Name	Description	Type	Sample
id	The unique identifier of the transfer transaction in QT Platform. <b>IMPORTANT!</b> This field and value must be used for further interactions with the transfer transaction, such as completion, cancellation or retrieve the status of the transfer. 在 QT 平台的转账交易的唯一标识符。重要！该字段和值必须用于进一步的相互作用与转账交易，例如完成，取消或检索转账的状态。	String	560912ff8e17071ca1792e43
type	The transaction type. Valid values are CREDIT or DEBIT. A CREDIT indicates a deposit to the player's QT wallet. A DEBIT indicates a withdrawal from the QT wallet. 交易类型。有效值是 CREDIT 或 DEBIT。CREDIT 表示存款到玩家的 QT 钱包。DEBIT 表示从 QT 钱包取款。	String	CREDIT
referenceId	The unique identifier of the transfer transaction in the Operator system. 在运营商系统的转让交易的唯一标识符。	String	98765
playerId	The unique identifier of the player in Operator system 玩家在运营商系统的唯一标识符。	String	123456
amount	The requested amount to transfer. Minimum amount to transfer is 0.01. For fiat, the maximum decimal places is 2. While for virtual currencies, the maximum decimal places is 8. 请求的转账金额。对于法定货币，最大小数位数为 2。而对于虚拟货币，最大小数位数为 8。	Decimal	100.00
currency	The 3-letter currency code of the amount to transfer according to ISO 4217 when in fiat or the virtual currency code set. 在法定货币或虚拟货币代码集下根据 ISO 4217 转账金额的 3 个字母货币代码。	String	CNY
initiated	The date and time when this transfer was created	String	2015-09-

	创建此转账的日期和时间。		20T13:14:51
status	The status of the transfer; PENDING, COMPLETED, CANCELLED. 转账的状况; 待定, 已完成, 已取消。	String	PENDING

### Example Response – Successful (Fiat Currency)

HTTP Status: 201  
Content-Type: application/json

```
{
  "id": "560912ff8e17071ca1792e43",
  "type": "CREDIT",
  "referenceId": "98765",
  "playerId": "123456",
  "amount": 100.00,
  "currency": "CNY",
  "initiated": "2015-09-20T13:14:51",
  "status": "PENDING"
}
```

### Example Response – Successful (Virtual Currency)

HTTP Status: 201  
Content-Type: application/json

```
{
  "id": "560912ff8e17071ca1792e43",
  "type": "CREDIT",
  "referenceId": "98765",
  "playerId": "123456",
  "amount": 0.01234567,
  "currency": "BTC",
  "initiated": "2015-09-20T13:14:51",
  "status": "PENDING"
}
```

## 4.1.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_FORMAT	400	If the request could not be processed due to invalid JSON format. 如果请求不能进行是由于无效 JSON 格式。
STATUS_CONFLICT	409	If the caller tries to perform a transfer with the same referenceId as an already cancelled or completed existing transfer. 如果呼叫者试图用一个已经取消过或者已经完成过一次转账的参考 ID 执行呼叫的话。
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效会此引发错误。
INSUFFICIENT_FUNDS	422	Only applicable on DEBIT requests. If the requested DEBIT amount is higher than the balance within the QT wallet. 只适用于 DEBIT 请求。如果所请求的 DEBIT 高于 QT 钱包内的余额。
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失, 无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	Service is not available. Temporary down, under maintenance etc.

		服务不可用。临时关闭，正在维护等。
--	--	-------------------

**Example Error**

```
HTTP Status: 422
Content-Type: application/json

{
  "code": "INSUFFICIENT_FUNDS",
  "message": "The player does not have enough money for the debit request."
}
```

## 4.2 Complete Transfer 完成交易

This call will complete a PENDING transfer. In case of a CREDIT transfer, the amount will be added to the player's balance in QT Wallet.

此呼叫将完成待定交易，如果是一个 CREDIT 交易，此金额将被添加到 QT 钱包玩家余额。

### 4.2.1 Request 请求

**Request URL**

https://{qtplatform}/v1/fund-transfers/{transferId}/status

**HTTP Method**

PUT

**Header Parameters**

Name	Description	Required	Type	Sample
Content-Type	The content type of the request. It must be "application/json". 该请求的内容类型，它必须是"application/ json 的"。	Yes	String	application/json
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

**Path Parameters**

Name	Description	Required	Type	Sample
transferId	The identifier of the transfer to complete, provided by QT Platform. 转移的标识符来完成，由 QT 平台提供的。	Yes	String	560912ff8e17071ca1792e43

**Example Request**

```
PUT https://api-int.qtplatform.com/v1/fund-transfers/560912ff8e17071ca1792e43/status
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Content-Type: application/json
Accept: application/json

{
  "status": "COMPLETED"
}
```

## 4.2.2 Response 响应

### HTTP Status Code

200 OK

### Response Parameters

Name	Description	Type	Sample
id	The unique identifier of the transfer transaction in QT Platform. 在 QT 平台的转账交易的唯一标识符。	String	560912ff8e17071ca1792e43
type	The transaction type. Valid values are CREDIT or DEBIT. A CREDIT indicates a deposit to the player's QT wallet. A DEBIT indicates a withdrawal from the QT wallet. 交易类型。有效值是 CREDIT 或 DEBIT。CREDIT 表示存款到玩家的 QT 钱包。DEBIT 表示从 QT 钱包提款。	String	CREDIT
referenceId	The unique identifier of the transfer transaction in the Operator system. 在运营商系统的转账交易的唯一标识符。	String	98765
playerId	The unique identifier of the player in Operator system 玩家在运营商系统的唯一标识符。	String	123456
amount	The amount with a maximum number of decimal places of 8. For fiat, the maximum decimal places is 2. While for virtual currencies, the maximum decimal places is 8. 金额的最大小数位数为 8 位。对于法定货币，最大小数位数为 2。而对于虚拟货币，最大小数位数为 8。	Decimal	100.00
currency	The currency of the player wallet as a 3-letter code according to ISO 4217 when in fiat or the virtual currency code set. 在法定货币或虚拟货币代码集下，玩家钱包的货币为符合 ISO 4217 的 3 个字母代码。	String	CNY
initiated	The date and time when this transfer was created. 创建此转账的日期和时间。	String	2015-09-20T13:14:51
finalized	The date and time when this transfer was completed 完成此转账的日期和时间。	String	2015-09-20T13:14:53
status	The status of the transfer; PENDING, COMPLETED, CANCELLED. 转账的状态;待定，已完成，已取消。	String	COMPLETED

### Example Response – Success (Fiat Currency)

HTTP Status: 200  
Content-Type: application/json

```
{
  "id": "560912ff8e17071ca1792e43",
  "type": "CREDIT",
  "referenceId": "98765",
  "playerId": "123456",
  "amount": 100.00,
  "currency": "CNY",
  "initiated": "2015-09-20T13:14:51",
  "finalized": "2015-09-20T13:14:53",
  "status": "COMPLETED"
}
```

### Example Response – Success (Virtual Currency)

HTTP Status: 200  
Content-Type: application/json

```
{  
  "id": "560912ff8e17071ca1792e43",  
  "type": "CREDIT",  
  "referenceId": "98765",  
  "playerId": "123456",  
  "amount": 100.01234567,  
  "currency": "BTC",  
  "initiated": "2015-09-20T13:14:51",  
  "finalized": "2015-09-20T13:14:53",  
  "status": "COMPLETED"  
}
```

### 4.2.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_FORMAT	400	If the request could not be processed due to invalid JSON format. 如果请求不能进行是由于无效 JSON 格式。
TRANSFER_NOT_FOUND	404	If the transfer with the given id was not found. 如果给定的 id 交易没有找到。
STATUS_CONFLICT	409	If the transaction already is in its final state, but in another state than the requested status change. Basically, if the caller tries to complete a cancelled transaction. 如果交易已经处于最终状态，但是在另一种状态。基本上，如果呼叫者试图完成一个已取消交易。
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效会引发此错误
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误。
QT_NOT_AVAILABLE	503	Service is not available. Temporary down, under maintenance etc. 服务不可用。临时关闭，正在维护等。

#### Example Error

```
HTTP Status: 422
Content-Type: application/json

{
  "code": "VALIDATION_ERROR",
  "message": "The request could not be processed due to incorrect request."
}
```

## 4.3 Cancel Transfer 取消交易

The Operator has the possibility to cancel a PENDING transfer. In case of a DEBIT transfer, the reserved amount will be returned to the player's QT Wallet.

运营商可以取消 PENDING 转账。如果是 DEBIT 转账，保留金额将退还给玩家的 QT 钱包。

**NOTE!**

It's not possible to cancel an already COMPLETED transfer.

注意！

无法取消已完成的转账。

### 4.3.1 Request 请求

**Request URL**

https://{qtplatform}/v1/fund-transfers/{transferId}/status

**HTTP Method**

PUT

**Header Parameters**

Name	Description	Required	Type	Sample
Content-Type	The content type of the request. It must be "application/json". 该请求的内容类型，它必须是"application/ json 的".	Yes	String	application/json
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

**Path Parameters**

Name	Description	Required	Type	Sample
transferId	The identifier of the transfer to cancel, provided by QT Platform. 取消转账的标识符，由 QT 平台提供。	Yes	String	560912ff8e17071ca1792e43

**Example Request**

```
PUT https://api-int.qtplatform.com/v1/fund-transfers/560912ff8e17071ca1792e43/status
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Content-Type: application/json
Accept: application/json
```

```
{
  "status": "CANCELLED"
}
```

## 4.3.2 Response 响应

### HTTP Status Code

200 OK

### Response Parameters

Name	Description	Type	Sample
id	The unique identifier of the transfer transaction in QT Platform. 在 QT 平台的转账交易的唯一标识符。	String	560912ff8e17071ca1792e43
type	The transaction type. Valid values are CREDIT or DEBIT. A CREDIT indicates a deposit to the player's QT wallet. A DEBIT indicates a withdrawal from the QT wallet. 交易类型。有效值是 CREDIT 或 DEBIT。CREDIT 表示存款到玩家的 QT 钱包。DEBIT 表示从 QT 钱包提款。	String	CREDIT
referenceId	The unique identifier of the transfer transaction in the Operator system. 在运营商系统的转账交易的唯一标识符。	String	98765
playerId	The unique identifier of the player in Operator system 玩家在运营商系统的唯一标识符。	String	123456
amount	The amount with the maximum number of decimal places of 8. For fiat, the maximum decimal places is 2. While for virtual currencies, the maximum decimal places is 8. 金额的最大小数位数为 8 位。请求的转账金额。对于法定货币，最大小数位数为 2。而对于虚拟货币，最大小数位数为 8。	Decimal	100.00
currency	The currency of the player wallet as a 3-letter code according to ISO 4217 when in fiat or the virtual currency code set. 在法定货币或虚拟货币代码集下，玩家钱包的货币为符合 ISO 4217 的 3 个字母代码。	String	CNY
initiated	The date and time when this transfer was created. 创建此转账的日期和时间。	String	2015-09-20T13:14:51
finalized	The date and time when this transfer was cancelled 完成此转账的日期和时间。	String	2015-09-20T13:14:53
status	The status of the transfer; PENDING, COMPLETED, CANCELLED. 转账的状态;待定，已完成，已取消。	String	CANCELLED

### Example Response – Success (Fiat Currency)

HTTP Status: 200  
Content-Type: application/json

```
{
  "id": "560912ff8e17071ca1792e43",
  "type": "CREDIT",
  "referenceId": "98765",
  "playerId": "123456",
  "amount": 100.00,
  "currency": "CNY",
  "initiated": "2015-09-20T13:14:51",
  "finalized": "2015-09-20T13:14:53",
  "status": "CANCELLED"
}
```

### Example Response – Success (Virtual Currency)



```
HTTP Status: 200
Content-Type: application/json

{
  "id": "560912ff8e17071ca1792e43",
  "type": "CREDIT",
  "referenceId": "98765",
  "playerId": "123456",
  "amount": 100.01234567,
  "currency": "BTC",
  "initiated": "2015-09-20T13:14:51",
  "finalized": "2015-09-20T13:14:53",
  "status": "CANCELLED"
}
```

### 4.3.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_FORMAT	400	If the request could not be processed due to invalid JSON format. 如果请求不能进行是由于无效 JSON 格式。
TRANSFER_NOT_FOUND	404	If the transfer with the given id was not found. 如果给定的 id 交易没有找到。
STATUS_CONFLICT	409	If the transaction already is in its final state, but in another state than the requested status change. Basically, if the caller tries to complete a cancelled transaction. 如果交易已经处于最终状态，但是在另一种状态。基本上，如果呼叫者试图完成一个已取消交易。
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效会引发此错误
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误。
QT_NOT_AVAILABLE	503	Service is not available. Temporary down, under maintenance etc. 服务不可用。临时关闭，正在维护等。

#### Example Error

```
HTTP Status: 422
Content-Type: application/json

{
  "code": "VALIDATION_ERROR",
  "message": "The request could not be processed due to incorrect request."
}
```

## 4.4 Retrieve Transfer Details 检索转账细节

This call returns the details of an existing transfer.

此呼叫返回现有转账的细节。

### 4.4.1 Request 请求

#### Request URL

https://{qtplatform}/v1/fund-transfers/{transferId}

#### HTTP Method

GET

#### Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

#### Path Parameters

Name	Description	Required	Type	Sample
transferId	The identifier of the transfer to retrieved, provided by QT Platform. 获取转账的标识是由 QT 平台提供的。	Yes	String	560912ff8e17071ca1792e43

#### Example Request

```
GET https://api-int.qtplatform.com/v1/fund-transfers/560912ff8e17071ca1792e43
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Accept: application/json
```

### 4.4.2 Response 响应

#### HTTP Status Code

200 OK

#### Response Parameters

Name	Description	Type	Sample
id	The unique identifier of the transfer transaction in QT Platform. 在 QT 平台的转账交易的唯一标识符。	String	560912ff8e17071ca1792e43
type	The transaction type. Valid values are CREDIT or DEBIT. A CREDIT indicates a deposit to the player's QT wallet. A DEBIT indicates a withdrawal from the QT wallet. 交易类型。有效值是 CREDIT 或 DEBIT。CREDIT 表示存款到玩家的 QT 钱包。DEBIT 表示从 QT 钱包提款。	String	CREDIT
referenceId	The unique identifier of the transfer transaction in the Operator system. 在运营商系统的转账交易的唯一标识符。	String	98765
playerId	The unique identifier of the player in Operator system 玩家在运营商系统的唯一标识符。	String	123456
amount	The amount with the maximum number of decimal places of 8. For fiat, the maximum decimal places is 2. While for virtual currencies,	Decimal	100.00

	the maximum decimal places is 8. 金额的最大小数位数为 8 位。请求的转账金额。对于法定货币，最大小数位数为 2。而对于虚拟货币，最大小数位数为 8。		
currency	The currency of the player wallet as a 3-letter code according to ISO 4217 when in fiat or the virtual currency code set. 在法定货币或虚拟货币代码集下，玩家钱包的货币为符合 ISO 4217 的 3 个字母代码。	String	CNY
initiated	The date and time when this transfer was created. 创建此转账的日期和时间。	String	2015-09-20T13:14:51
finalized	The date and time when this transfer was cancelled or completed 完成此转账的日期和时间。	String	2015-09-20T13:14:53
status	The status of the transfer; PENDING, COMPLETED, CANCELLED. 转账的状态;待定，已完成，已取消。	String	CANCELLED

#### Example Response – Success (Fiat Currency)

HTTP Status: 200  
Content-Type: application/json

```
{
  "id": "560912ff8e17071ca1792e43",
  "type": "CREDIT",
  "referenceId": "98765",
  "playerId": "123456",
  "amount": 100.00,
  "currency": "CNY",
  "initiated": "2015-09-20T13:14:51",
  "finalized": "2015-09-20T13:14:53",
  "status": "CANCELLED"
}
```

#### Example Response – Success (Virtual Currency)

HTTP Status: 200  
Content-Type: application/json

```
{
  "id": "560912ff8e17071ca1792e43",
  "type": "CREDIT",
  "referenceId": "98765",
  "playerId": "123456",
  "amount": 100.01234567,
  "currency": "BTC",
  "initiated": "2015-09-20T13:14:51",
  "finalized": "2015-09-20T13:14:53",
  "status": "CANCELLED"
}
```

### 4.4.3 Possible Errors

Code	HTTP Status	Description
TRANSFER_NOT_FOUND	404	If the transfer with the given id was not found. 如果未找到给定 id 的转账。
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误。

QT_NOT_AVAILABLE	503	Service is not available. Temporary down, under maintenance etc. 服务不可用。临时关闭，正在维护等。
------------------	-----	---

### Example Error

```
HTTP Status: 404
Content-Type: application/json

{
  "code": "TRANSFER_NOT_FOUND",
  "message": "The transfer with the given id was not found."
}
```

## 4.5 Retrieve Player Balance 检索玩家余额

This call returns the current balance of a player in QT Platform.

此呼叫返回玩家在 QT 平台现有的余额。

### 4.5.1 Request 请求

#### Request URL

https://{qtplatform}/v1/wallet/ext/{playerId}

#### HTTP Method

GET

#### Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token. 有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

#### Path Parameters

Name	Description	Required	Type	Sample
playerId	The unique identifier of the player in Operator system. 玩家在运营商系统的唯一标识符。	Yes	String	123456

### Example Request

```
GET https://api-int.qtplatform.com/v1/wallet/ext/123456
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Accept: application/json
```

### 4.5.2 Response 响应

#### HTTP Status Code

200 OK

#### Response Parameters

Name	Description	Type	Sample
amount	The balance of the player, expressed with maximum 8 decimals, after the payout amount has been processed. For fiat, the maximum decimal places is 2. While for virtual currencies, the maximum	Decimal	8880.00

	decimal places is 8. 处理支付金额后玩家的余额，最多 8 位小数。金额的最大小数位数为 8 位。请求的转账金额。对于法定货币，最大小数位数为 2。而对于虚拟货币，最大小数位数为 8。		
currency	The currency of the player wallet as a 3-letter code according to ISO 4217 when in fiat or the virtual currency code set. 在法定货币或虚拟货币代码集下，玩家钱包的货币为符合 ISO 4217 的 3 个字母代码。	String	CNY

#### Example Response – Existing Player (Fiat Currency)

HTTP Status: 200  
Content-Type: application/json

```
{
  "amount":8880.00,
  "currency":"CNY"
}
```

#### Example Response – Existing Player (Virtual Currency)

HTTP Status: 200  
Content-Type: application/json

```
{
  "amount":80.01234567,
  "currency":"BTC"
}
```

#### Example Response – Non-existing Player

HTTP Status: 200  
Content-Type: application/json

```
{
  "amount":0.00
}
```

### 4.5.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误。
QT_NOT_AVAILABLE	503	Service is not available. Temporary down, under maintenance etc. 服务不可用。临时关闭，正在维护等。

#### Example Error

HTTP Status: 500

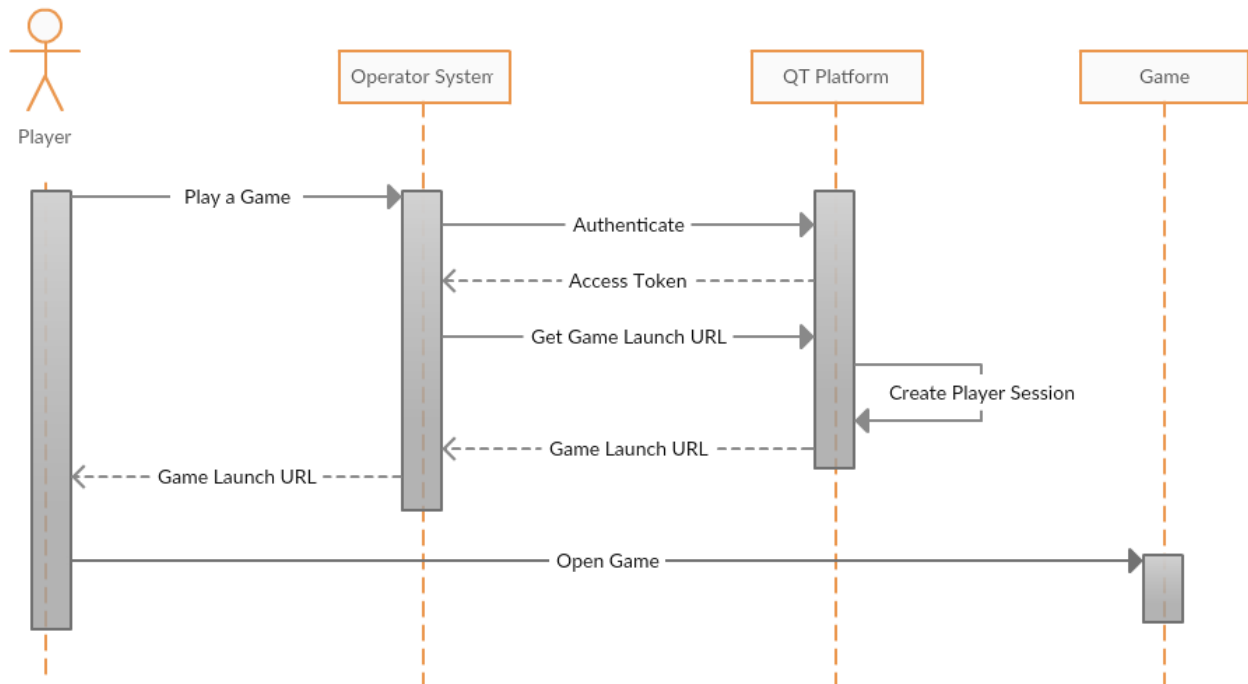
Content-Type: application/json

```
{  
  "code": "UNKNOWN_ERROR",  
  "message": "Could not process the request due to an unexpected error."  
}
```

## 5 Game Launcher 游戏启动

Creates a player session and returns the launch URL for a specific game.

创建一个玩家会话，并为一个特定的游戏返回启动 URL。



The returned launch URL is player specific and the Operator must use that URL to redirect the Player to the game.

返回的启动 URL 是玩家特定的和运营商必须使用 URL，来重新定向玩家进行游戏。

### 5.1 Request 请求

#### Request URL

`https://{qtplatform}/v1/games/{gameId}/launch-url`

#### HTTP Method

POST

#### Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token. 有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

#### Path Parameters

Name	Description	Required	Type	Sample
gameId	The identifier of the game to play. This is supplied by QT. 开始游戏的识别码由 QT 提供。	Yes	String	TK-froggrog

#### Payload Parameters

Name	Description	Required	Type	Sample
playerId	The player id supplied by the Operator. The maximum length is 34 characters.	Yes	String	test123

	玩家的 id 由运营商提供。最大长度为 34 个字。			
displayName	The name or nickname of the player to be displayed, instead of the playerId, in multiplayer games, such as Live Casino. The maximum length is 50 characters. 在多人游戏 (例如真人视讯) 中显示的玩家的名称或昵称, 而不是 playerId, 玩家名称或昵称最长不得超过 50 个字符	No	String	mrTest
currency	The game currency as a 3-letter code according to ISO 4217. 游戏货币为符合 ISO 4217 的 3 个字母代码。	Yes	String	CNY
country	The country of the player's residence, as a 2-letter code according to ISO 3166-1 alpha-2. 玩家的居住地根据 ISO 3166-1 alpha-2 的国家, 一个 2 个字母的代码。	Yes	String	CN
gender	The gender of the player. <b>M</b> for male or <b>F</b> for female. 玩家的性别, M 是男性或者 F 是女性。	No	String	M
birthDate	The birthdate of the player, expressed as YYYY-MM-DD. 玩家的生日, 表示为 YYYY-MM-DD。	No	String	1986-01-01
lang	The selected language of the game, a combination of the 2-letter language code (ISO 639-1) and the 2-letter country code (ISO 3166-1 alpha-2). For example zh_CN. 游戏的选择语言的 2 字母语言代码的组合 (ISO639-1) 和 2 个字母的国家代码 (ISO3166-1α-2)。例如 zh_CN。	Yes	String	zh_CN
mode	The selected mode of the game. Valid values are <b>demo</b> for "play for fun", or <b>real</b> to play with real money. 游戏已选择的模式。有效值为 <b>demo</b> 是 "play for fun", 还是 <b>real</b> 玩真钱游戏。	Yes	String	real
device	Determines which device the game will be running on. Valid values are <b>desktop</b> or <b>mobile</b> . 确定游戏将在哪个设备上运行。有效值为 <b>desktop</b> 或 <b>mobile</b> 。	Yes	String	mobile
returnUrl	Determines the URL of the home button in the <b>mobile</b> games. 在移动端游戏中决定主页键的链接。	Yes/No	String	<a href="https://operator.site.com/games">https://operator.site.com/games</a>
betLimitCode	Determines the bet limit for the player and game session. If not provided, the default bet limit for the game is applied. Available codes and bet limits: 1 - max 30 EUR (300 CNY) 2 - max 60 EUR (600 CNY) 3 - max 90 EUR (900 CNY) 4 - max 120 EUR (1200 CNY) 5 - max 240 EUR (2400 CNY)  The supported games can be found in the game-list.  选定玩家和游戏会话的投注限额。如果未提供, 游戏会使用默认的投注限额。有效的 ID 和投注限额: 1 - 最高 30 EUR ( 300 CNY ) 2 - 最高 60 EUR ( 600 CNY ) 3 - 最高 90 EUR ( 900 CNY ) 4 - 最高 120 EUR ( 1200 CNY ) 5 - 最高 240 EUR ( 2400 CNY )  可在游戏列表中找到支持的游戏。	No	String	1
jurisdiction	The jurisdictional information of the player. The "jurisdiction" is mandatory for players under UKGC or Danish license due reporting requirements. Jurisdiction code is two characters and valid codes are:	No	String	MT



	<p>MT - Malta Gambling Authority  UK - UK Gambling Commission  GG - Alderney Gambling Control Commission  DK - Denmark Gambling Authority  GI - Gibraltar  RO - Romania  SE - Swedish Gambling Authority  PH - Philippine Amusement and Gaming Corporation (PAGCOR)  CW - Curacao eGaming License  DE - Germany Gambling Commission</p> <p>玩家的管辖区域信息。根据报告要求，在 UKGC 或者丹麦许可证下玩家的管辖区域是强制性的。管辖区域的代码是 2 个字母，有效代码为：</p> <p>MT - Malta Gambling Authority  UK - UK Gambling Commission  GG - Alderney Gambling Control Commission  DK - Denmark Gambling Authority  GI - Gibraltar  RO - Romania  SE - Swedish Gambling Authority  PH - Philippine Amusement and Gaming Corporation (PAGCOR)  CW - Curacao eGaming License  DE - Germany Gambling Commission</p>			
ipAddress	<p>The IP address of the player. If given, the IP address will be verified upon game launch as an extra security.  玩家的 IP 地址。如果给出，IP 地址将在游戏启动时作为额外的安全验证。</p>	No	String	122.53.186.98
tableId	<p>The tableId of a live casino game. If given, the game will launch directly to the given table id.  在真人视频中，每个赌桌会有一个唯一的代码。如果给出，则游戏会直接登录至给出 ID 的赌桌。</p>	No	String	LightningRoulette0001
walletCurrency	<p>The player's virtual currency in the operator system.</p> <p>When set, the currency field then is the target currency that walletCurrency will be converted to for the game session.</p> <p>运营商系统中玩家的虚拟货币。设置后，货币字段就是 walletCurrency 将在游戏会话中转换为目标货币。</p>	No	String	BTC

**Example Request** (real mode)

```
POST https://api-int.qtplatform.com/v1/games/TK-froggrog/launch-url
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Content-Type: application/json
```

```
{
  "playerId": "123456",
  "currency": "CNY",
  "country": "CN",
  "gender": "M",
  "birthDate": "1986-01-01",
  "lang": "zh_CN",
  "mode": "real",
  "device": "mobile",
  "returnUrl": "https://operator.site.com/games"
}
```

**Example Request** (real mode – with walletCurrency)

POST https://api-int.qtplatform.com/v1/games/TK-froggrog/launch-url  
 Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92  
 Content-Type: application/json

```
{
  "playerId": "123456",
  "currency": "CNY",
  "country": "CN",
  "gender": "M",
  "birthDate": "1986-01-01",
  "lang": "zh_CN",
  "mode": "real",
  "device": "mobile",
  "returnUrl": "https://operator.site.com/games"
  "walletCurrency": "BTC"
}
```

**Example Request** (demo mode - play for fun)

POST https://api-int.qtplatform.com/v1/games/TK-froggrog/launch-url  
 Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92  
 Content-Type: application/json

```
{
  "currency": "CNY",
  "lang": "zh_CN",
  "mode": "demo",
  "device": "mobile",
  "returnUrl": "https://operator.site.com/games"
}
```

The playerId and country is **not** required in demo mode.  
 demo 模式中不需要 playerId , country。

## 5.2 Response 响应

**HTTP Status Code**

201 Created

**Response Parameters**

Name	Description	Type	Sample
url	The game-launch URL 游戏启动 URL	String	https://gl-int.qtplatform.com/560e420c8e170730d660ff2f

**Example Response**

HTTP Status: 201  
 Content-Type: application/json

```
{
  "url": "https://gl-int.qtplatform.com/560e420c8e170730d660ff2f"
}
```

## 5.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_FORMAT	400	If the request could not be processed due to invalid JSON format.

		如果请求不能进行，是由于无效 JSON 格式。
GAME_NOT_FOUND	404	If the game with the given id was not found. 如果未找到给定 id 的游戏。
GAME_NOT_AVAILABLE	422	If the game is temporarily not available. 如果游戏暂时不可用。
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效此引发错误。
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

### Example Error

```

HTTP Status: 422
Content-Type: application/json

{
  "code": "VALIDATION_ERROR",
  "message": "The request could not be processed due to incorrect request."
}
```

## 6 Player Game History 玩家游戏历史记录

The Player Game History page gives the possibility for a player to browse the history of the played game rounds for the past 30 days. The Operator can integrate this page on their existing site; in an iframe, a new tab or a new window.

玩家游戏历史记录页面提供玩家浏览 30 天内玩过的游戏局记录，运营商可以使用内嵌框架(iframe)，一个新的选项卡或者一个新的窗口将这个功能整合到他们已有的网站中。

### Game History

Game	Status	Initiated	Completed	Total Bet	Total Payout
12 Animals	COMPLETED	2018-10-17 10:47:45	2018-10-17 10:47:46	15.00 CNY	0.00 CNY
12 Animals	COMPLETED	2018-10-17 10:47:43	2018-10-17 10:47:44	15.00 CNY	0.00 CNY
12 Animals	COMPLETED	2018-10-17 10:47:40	2018-10-17 10:47:41	15.00 CNY	0.00 CNY
12 Animals	COMPLETED	2018-10-17 10:47:30	2018-10-17 10:47:32	15.00 CNY	0.00 CNY
Jaguar Temple	COMPLETED	2018-09-27 10:37:14	2018-09-27 10:37:15	5.00 CNY	14.50 CNY
Jaguar Temple	COMPLETED	2018-09-27 10:37:05	2018-09-27 10:37:06	5.00 CNY	7.00 CNY
Jaguar Temple	COMPLETED	2018-09-27 10:37:00	2018-09-27 10:37:01	5.00 CNY	0.00 CNY
Jaguar Temple	COMPLETED	2018-09-27 10:36:50	2018-09-27 10:36:51	5.00 CNY	62.50 CNY
Jaguar Temple	COMPLETED	2018-09-27 10:36:45	2018-09-27 10:36:46	5.00 CNY	0.00 CNY
Jaguar Temple	COMPLETED	2018-09-27 10:36:13	2018-09-27 10:36:15	5.00 CNY	0.00 CNY
Heads&Tails	COMPLETED	2018-09-20 12:11:42	2018-09-20 12:11:43	224.00 CNY	430.08 CNY
Heads&Tails	COMPLETED	2018-09-20 12:11:37	2018-09-20 12:11:38	224.00 CNY	0.00 CNY
Heads&Tails	COMPLETED	2018-09-20 12:11:33	2018-09-20 12:11:33	224.00 CNY	0.00 CNY
Heads&Tails	COMPLETED	2018-09-20 12:11:28	2018-09-20 12:11:29	224.00 CNY	0.00 CNY
Heads&Tails	COMPLETED	2018-09-20 12:11:19	2018-09-20 12:11:19	224.00 CNY	0.00 CNY
Heads&Tails	COMPLETED	2018-09-20 12:11:12	2018-09-20 12:11:14	224.00 CNY	430.08 CNY

Displaying 37 of 37 items

The player can also view the game result details by clicking on a row item.

玩家也能查阅游戏结果。

### < Game History

#### Details

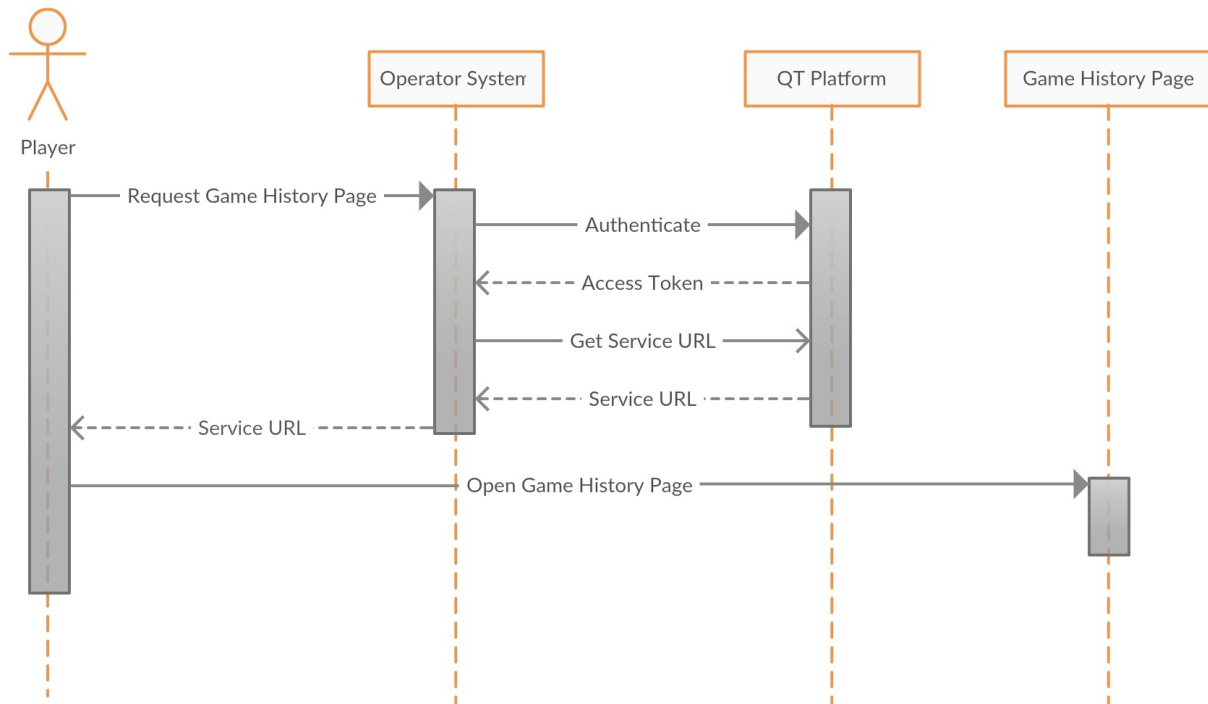
Round ID	5bc6a2d1790528000147e05a
Game	12 Animals
Status	COMPLETED
Total Bet	15.00 CNY
Total Payout	0.00 CNY
Initiated Date	2018-10-17 10:47:45
Completed Date	2018-10-17 10:47:46

### Game Result

Round ID: 1385145



Date (GMT)	2018-10-17 02:47:45
Game	12_animals
Segment	desktop
Bet	15.00 CNY
Win	0 CNY
Balance before	7 395.94 CNY
Balance after	7 380.94 CNY



The sequence to retrieve the page url is similar to the game-launch-url sequence. The returned page URL is unique per player and should be used to redirect the player to the game history page.

检索页面的 URL 的顺序是类似 game-launch-url 的序列。返回的页面 URL 是每个玩家独一无二的，应该用来重新定向玩家游戏的历史页面。

## 6.1 Request 请求

### Request URL 请求链接

`https://{url-to-qtplatform}/v1/players/{playerId}/service-url`

### HTTP Method HTTP 方法

POST

### Header Parameters 头参数

Name	Description	Required	Type	Sample
Content-Type	The content type of the request. It must be "application/json". 该请求的内容类型，它必须是"application/ json 的".	Yes	String	application/json
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

### Path Parameters 路径参数

Name	Description	Required	Type	Sample
playerId	The unique identifier of the player in the Operator system. The maximum length is 34 characters. 在运营商系统中玩家唯一的标识符。最大长度为 34 个字。	Yes	String	ktorres

## Payload Parameters 载荷参数

Name	Description	Required	Type	Sample
currency	The currency of the player wallet, as a 3-letter code according to ISO 4217. 玩家钱包的货币，是由 3 个字母的代码，根据 ISO4217 的货币。	Yes	String	CNY
country	The country of the player's residence, as a 2-letter code according to ISO 3166-1 alpha-2. 玩家的居住地根据 ISO 3166-1 alpha-2 的国家，一个 2 个字母的代码。	Yes	String	CN
gender	The gender of the player. <b>M</b> for male or <b>F</b> for female. 玩家的性别，M 是男性或者 F 是女性。	No	String	M
birthDate	The birthdate of the player, expressed as YYYY-MM-DD. 玩家的生日，表示为 YYYY-MM-DD。	No	String	1986-01-01
lang	The preferred language of the page, a combination of the 2-letter language code (ISO 639-1) and the 2-letter country code (ISO 3166-1 alpha-2). For example zh_CN. 页面的首选语言，两个字母的语言代码的组合 ( ISO 639-1 ) 和 2 个字母的国家代码 ( ISO 3166-1alpha-2 ) 。例如 zh_CN。	No	String	zh_CN
timeZone	The time zone of the player. 玩家的时区。	No	String	Asia/Shanghai

### Example Request - Success

POST https://api-int.qtplatform.com/v1/players/ktorres/service-url  
 Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92  
 Content-Type: application/json

```
{
  "currency": "CNY",
  "country": "CN",
  "gender": "M",
  "birthDate": "1986-01-01",
  "lang": "zh_CN",
  "timeZone": "Asia/Shanghai"
}
```

## 6.2 Response 响应

### HTTP Status Code HTTP 状态代码

200 OK

### Response Parameters 参数反应

Name	Description	Type	Sample
url	The URL to game history page. 到游戏历史页面的链接。	String	https://ps-int.qtplatform.com/560e420c8e170730d660ff2f

### Example Response - Success

HTTP Status: 200  
 Content-Type: application/json

```
{
  "url": "https://ps-int.qtplatform.com/560e420c8e170730d660ff2f"
}
```

## 6.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_FORMAT	400	If the request could not be processed due to invalid JSON format. 如果请求不能进行，是由于无效 JSON 格式。
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效此引发错误。
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

### Example Response - Error

```

HTTP Status: 422
Content-Type: application/json

{
  "code": "VALIDATION_ERROR",
  "message": "The request could not be processed due to validation error."
}
```

## 7 Game Lobby 游戏大厅

The Game Lobby brings new possibilities for the players to enjoy their favourite games. The advanced filter and browse functionalities, personal recommendations and similarities like Spotify, Netflix and Amazon, gives the players an easy and familiar way to discover new games.

The Operator can integrate the game lobby on their existing site; in an iframe, a new tab or in a new window.

The sequence to retrieve the game lobby url is similar to the game-launch-url sequence. The returned page URL should be used to redirect the player to the game lobby page. The game lobby url can be retrieved for both demo (visitor) mode and real (signed in) mode.

游戏大厅给玩家带来全新方式来享受他们喜爱的游戏。与知名平台 Spotify, Netflix 和 Amazon 一样，高级筛选，浏览器功能，个人推荐和相似游戏等功能，让玩家能够用简单而熟悉的方式来发现新游戏。

提供商可以在现有的网站上，使用 iframe，新标签页或者新窗口来集成游戏大厅。

检索游戏大厅链接的序列与登录游戏的链接类似。返回的页面链接应该用于将玩家重定向到游戏大厅页面。游戏大厅链接需要能够被试玩（访问者）模式和真实（登录）模式检索到。

### 7.1 Request 请求

#### Request URL

https://{url-to-qtplatform}/v1/games/lobby-url

#### HTTP Method

POST

#### Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

#### Payload Parameters

Name	Description	Required	Type	Sample
playerId	The unique identifier of the player in the Operator system. The maximum length is 34 characters. 在运营商系统中玩家唯一的标识符。最大长度为 34 个字。	Yes	String	test123
displayName	The name or nickname of the player to be displayed, instead of the playerId, in multiplayer games, such as Live Casino. The maximum length is 50 characters. 在多人游戏（例如真人视讯）中显示的玩家的名称或昵称，而不是 playerId，玩家名称或昵称最长不得超过 50 个字符	No	String	mrTest
currency	The currency of the player wallet, as a 3-letter code according to ISO 4217. 玩家钱包的货币，是由 3 个字母的代码，根据 ISO4217 的货币。	Yes	String	CNY
country	The country of the player's residence, as a 2-letter code according to ISO 3166-1 alpha-2. 玩家的居住地根据 ISO 3166-1 alpha-2 的国家，一个 2 个字母的代码。	Yes	String	CN
gender	The gender of the player. <b>M</b> for male or <b>F</b> for female. 玩家的性别，M 是男性或者 F 是女性。	No	String	M
birthDate	The birthdate of the player, expressed as YYYY-MM-DD. 玩家的生日，表示为 YYYY-MM-DD。	No	String	1986-01-01



lang	The selected language of the lobby and games, a combination of the 2-letter language code (ISO 639-1) and the 2-letter country code (ISO 3166-1 alpha-2). For example zh_CN. 游戏大厅和游戏的语言设定必须为的 2 字母的语言代码(ISO639-1)和 2 个字母的国家代码(ISO3166-1α-2)的组合。例如“zh_CN”。	Yes	String	zh_CN
mode	The playing modes of the games. Valid values are: <b>DEMO</b> : Games can only be played “for fun”. <b>REAL_ONLY</b> : Games can only be played with real money. <b>REAL</b> : Games can be played with real money and “for fun”.  游戏的各种模式。有效值为： <b>DEMO</b> ：游戏只能以试玩的模式进行。 <b>REAL_ONLY</b> ：游戏只能以真钱的模式进行。 <b>REAL</b> ：游戏可以以真钱或试玩的模式进行。	Yes	String	real
device	Determines which device the lobby will be running on. Valid values are <b>desktop</b> or <b>mobile</b> . 确定游戏将在哪个设备上运行。有效值为 <b>desktop</b> 或 <b>mobile</b> .	Yes	String	mobile
gameLaunchTarget	Determines which frame or window the <i>mobile</i> game will be launched in. Valid values are: <b>BLANK</b> : Launches the game in a new tab (default). <b>SELF</b> : Launches the game in the current frame. <b>PARENT</b> : Launches the game in the parent frame. <b>TOP</b> : Launches the game in the full body of the window.  If not provided, the default behavior will launch the game in a new tab (BLANK).  该参数决定游戏在移动模式启动时在何种 frame 或窗口打开。有效值为： <b>BLANK</b> :在一个新的标签分页中启动游戏（默认）。 <b>SELF</b> :在现有的 frame 中启动游戏。 <b>PARENT</b> :在上级 frame 中启动游戏。 <b>TOP</b> :在全屏窗口中启动游戏  如果没有提供，则默认游戏会在一个新的分页标签启动（BLANK）。	No	String	TOP
gameTypes	Determines what game categories to be displayed in the main navigation menu. Valid values: SLOT_GAMES TABLE_GAMES INSTANT_WIN BINGO_GAMES SCRATCH_CARDS SHOOTING_GAMES CASUAL_GAMES VIRTUAL_SPORTS VIRTUAL_GAMES LIVE_CASINO ESPORTS  If not provided, all available game categories will be displayed.  决定主导航菜单中所显示的游戏类别。 有效值： SLOT_GAMES TABLE_GAMES INSTANT_WIN	No	Array	["SLOT_GAMES", "TABLE_GAMES"]

	<p>BINGO_GAMES SCRATCH_CARDS SHOOTING_GAMES CASUAL_GAMES VIRTUAL_SPORTS VIRTUAL_GAMES LIVE_CASINO ESPORTS</p> <p>如果不提供，则会显示所有可获得的游戏类别。</p>			
betLimitCode	<p>Determines the bet limit for the player and game session. If not provided, the default bet limit for the game is applied. Available codes and bet limits:</p> <p>1: max 30 EUR (300 CNY) 2: max 60 EUR (600 CNY) 3: max 90 EUR (900 CNY) 4: max 120 EUR (1200 CNY) 5: max 240 EUR (2400 CNY)</p> <p>The supported games can be found in the game-list.</p> <p>选定玩家和游戏会话的投注限额。如果未提供，游戏会使用默认的投注限额。有效的 ID 和投注限额：</p> <p>1：最高 30 EUR ( 300 CNY ) 2：最高 60 EUR ( 600 CNY ) 3：最高 90 EUR ( 900 CNY ) 4：最高 120 EUR ( 1200 CNY ) 5：最高 240 EUR ( 2400 CNY ) 可在游戏列表中找到支持的游戏。</p>	No	String	1
jurisdiction	<p>The jurisdictional information of the player. The "jurisdiction" is mandatory for players under UKGC or Danish license due reporting requirements. Jurisdiction code is two characters and valid codes are:</p> <p>MT - Malta Gambling Authority UK - UK Gambling Commission GG - Alderney Gambling Control Commission DK - Denmark Gambling Authority GI - Gibraltar RO - Romania SE - Swedish Gambling Authority PH - Philippine Amusement and Gaming Corporation (PAGCOR) CW - Curacao eGaming License</p> <p>玩家的管辖区域信息。根据报告要求，在 UKGC 或者丹麦许可证下玩家的管辖区域是强制性的。管辖区域的代码是 2 个字母，有效代码为：</p> <p>MT - Malta Gambling Authority UK - UK Gambling Commission GG - Alderney Gambling Control Commission DK - Denmark Gambling Authority GI - Gibraltar RO - Romania SE - Swedish Gambling Authority PH - Philippine Amusement and Gaming Corporation (PAGCOR) CW - Curacao eGaming License</p>	No	String	MT
walletCurrency	<p>Currency field to use when transacting using Virtual currency (as code depending on how QT Platform set the virtual currency).</p> <p>When this is filled up, the CURRENCY field then is the</p>	No	String	BTC

	target currency that walletCurrency will be converted to for the game session. 使用虚拟货币进行交易时使用的货币字段（代码取决于 QT 平台如何设置虚拟货币）。上传后，CURRENCY 字段就是 walletCurrency 将在游戏会话中转换为目标货币。			
config	Object containing game lobby configuration options. 包含游戏大厅配置选项的对象。	No	Object	-
displays	The displays object gives the possibility for player to view certain menu options, if provided. 显示对象使玩家可以查看某些菜单选项（如果提供）。	No	Object	-
balance	Determines whether the Player's balance will be displayed or not.  If not provided, the default behaviour is balance will not be displayed. 决定是否显示玩家的余额。如果未提供，则不会显示。	No	Boolean	true
name	Determines whether the Player's nickname or playerId will be displayed or not.  If not provided, the default behaviour is name will not be displayed. 决定是否显示玩家的昵称或玩家 ID。如果未提供，则不会显示。	No	Boolean	true
language	Determines whether the language menu will be displayed or not.  If not provided, this will not be displayed. 决定是否显示语言菜单。如果未提供，则不会显示。	No	Boolean	false
gameHistory	Determines whether the game history menu will be displayed or not.  If not provided, this will not be displayed. 决定是否显示游戏历史菜单。如果未提供，则不会显示。	No	Boolean	false
exitButton	Determines whether the exit button will be displayed or not.  决定是否显示退出按钮。	No	Boolean	false
urls	Object containing custom urls to be used in the game lobby. 包含要在游戏大厅中使用的自定义 url 的对象。	No	Object	-
exit	Determines the URL of the exit button. 确定退出按钮的 URL。  If set, exit button will be displayed. 如果设置，将显示退出按钮。	No	String	<a href="https://operator.site.com/games">https://operator.site.com/games</a>
search	Determines whether the search will be displayed or not 决定是否显示搜索	No	Boolean	true

### Example Request (real mode)

```
POST https://api-int.qtplatform.com/v1/games/lobby-url
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Content-Type: application/json
```

```
{
  "playerId": "123456",
  "currency": "CNY",
  "country": "CN",
  "gender": "M",
  "birthDate": "1986-01-01",
  "lang": "zh_CN",
  "mode": "real",
  "device": "desktop"
}
```

**Example Request** (real mode – with walletCurrency)

```
POST https://api-int.qtplatform.com/v1/games/lobby-url
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Content-Type: application/json
```

```
{
  "playerId": "123456",
  "currency": "CNY",
  "country": "CN",
  "gender": "M",
  "birthDate": "1986-01-01",
  "lang": "zh_CN",
  "mode": "real",
  "device": "desktop",
  "walletCurrency": "BTC"
}
```

**Example Request** (demo mode - play for fun)

```
POST https://api-int.qtplatform.com/v1/games/lobby-url
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Content-Type: application/json
```

```
{
  "currency": "CNY",
  "lang": "zh_CN",
  "mode": "demo",
  "device": "desktop"
}
```

**Example Request** (with game lobby configuration)

```
{
  "playerId": "123456",
  "currency": "CNY",
  "country": "CN",
  "gender": "M",
  "birthDate": "1986-01-01",
  "lang": "en_US",
  "mode": "real",
  "device": "desktop",
  "config": {
    "displays": {
      "balance": true,
      "name": true,
      "language": true,
      "gameHistory": true,
      "search": true
    },
    "urls": {
      "exit": "https://qtechgames.com"
    }
  }
}
```

The playerId and country is **not** required in demo mode.  
demo 模式中不需要 playerId , country。

## 7.2 Response 响应

### HTTP Status Code

200 OK

### Response Parameters

Name	Description	Type	Sample
url	The game lobby URL, to be launched in an iframe, a new tab or in a new window. 游戏大厅的链接，能够在 iframe 新标签页或者新窗口登录。	String	https://d3w4ipqdohvjy.cloudfront.net/zh-CN/44f88da3-7fbc-4ab7-a569-fa6934b60300f

### Example Response - Success

```
HTTP Status: 200
Content-Type: application/json

{
  "url": "https://d3w4ipqdohvjy.cloudfront.net/zh-CN/44f88da3-7fbc-4ab7-a569-fa6934b60300f"
}
```

## 7.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_FORMAT	400	If the request could not be processed due to invalid JSON format. 如果请求不能进行，是由于无效 JSON 格式。
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效此引发错误。
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

### Example Response - Error

```

HTTP Status: 422
Content-Type: application/json

{
  "code": "VALIDATION_ERROR",
  "message": "The request could not be processed due to validation error."
}
```

## 8 Services 服务

This chapter describes the additional services from the QT Platform. Each endpoint requires a valid access token, as described in chapter 4. Authentication.

本章描述 QT 平台的附加服务。每个端点都需要一个有效的访问令牌,如第4章认证所述。

### 8.1 Game List 游戏列表

The Game List API gives the caller the possibility to retrieve all available games (and their current status) from the QT Platform. 游戏列表 API 为呼叫者提供从 QT 平台检索所有可用游戏 (和它们的当前状态) 的可能性。

#### 8.1.1 Request 请求

##### Request URL

https://{url-to-qtplatform}/v2/games

##### HTTP Method

GET

##### Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Time-Zone	The preferred timezone of the search. If not provided, the "Asia/Shanghai" (CST) will be used as default. 搜索的首选时区。如果没有提供,将以“亚洲/上海”(CST)作默认。	No	String	UTC or Europe/Kiev
Accept-Language	The preferred language of the content in the game list. If not provided, English (en-US) will be used as default. 游戏列表中内容的首选语言。如果未提供,则默认使用英文 (en-US)。  Accepted values: en-US zh-CN	No	String	zh-CN

##### Query Parameters

Name	Description	Required	Type	Sample
size	The desired number of games to be returned per page. Must not exceed 500. If not provided, 100 items per page will be used as default. 每页返回的所需游戏数量。不得超过500个。如果未提供,则默认使用每页100个项目。	No (defaults to 100)	Integer	20
operatorId	Gets the games based on a specific sub-operator. If not provided, the operator of the current user will be used as default. 获取基于特定子运营商的游戏。如果未提供,则默认使用当前用户的运营商。	No	String	qt001
providers	Filters the result by provider or providers. Can be set as a single provider or as a comma-separated provider code list. If not provided, all games from available content providers will be included in the result. 按单个或多个提供商过滤结果。可以设置为单个提供商或逗号分隔的提供商代码列表。如果未提供,则所有可用提供商的所有游戏都将包含在结果中。	No	String	BPG,TK
currencies	Filters the result by game currency or currencies. Can be set as a single currency or as a comma-separated currency code list. If not provided, all games with all	No	String	EUR,CNY

	available currencies will be included in the result. 按单个或多个游戏货币过滤结果。可以设置为单个货币或逗号分隔的货币代码列表。如果未提供，所有游戏的所有可用货币将包括在结果中。			
languages	Filters the result by language or languages. Can be set as a single language or as a comma-separated language code list. If not provided, all games with all available languages will be included in the result. 按单个或多个语言过滤结果。可以设置为单个语言或逗号分隔的语言代码列表。如果未提供，所有游戏的可用语言都将包含在结果中。	No	String	en_US,zh_CN
gameTypes	Filters the result by game category or categories. Can be set as a single category or as a comma-separated category code list. If not provided, all games with all available categories will be included in the result. 按单个或多个游戏类别过滤结果。可以设置为单个类别或逗号分隔的类别代码列表。如果未提供，所有可用类别的所有游戏都将包含在结果中。  Accepted Values: <ul style="list-style-type: none"> <li>• BINGO</li> <li>• CASUALGAME</li> <li>• ESPORTS</li> <li>• INSTANTWIN</li> <li>• LIVECASINO</li> <li>• SCRATCHCARD</li> <li>• SHOOTING</li> <li>• SLOT</li> <li>• SPORTS</li> <li>• TABLEGAME</li> <li>• VIDEOPOKER</li> <li>• VIRTUAL_SPORTS</li> </ul>	No	String	BINGO,SLOT
sortBy	Orders the result by name or release date. 按名称或发布日期排序结果。  Accepted Values: <ul style="list-style-type: none"> <li>• name (default)</li> <li>• releaseDate</li> </ul>	No	String	name
orderBy	Orders the result according to the sortBy parameter in ascending or descending order. 根据 sortBy 参数对结果进行升序或降序排序。  Accepted Values: <ul style="list-style-type: none"> <li>• ASC (default)</li> <li>• DESC</li> </ul>	No	String	ASC
includeFields	Limit the result fields as provided in this parameter. This can be set as a single field value or comma separated fields list. If not provided all result fields will be displayed. 限制此参数中提供的结果字段。这可以设置为单个字段值或逗号分隔的字段列表。如果未提供，将显示所有结果字段。  Accepted Values: <ul style="list-style-type: none"> <li>• id</li> <li>• name</li> <li>• provider</li> <li>• description</li> <li>• languages</li> <li>• currencies</li> <li>• themes</li> <li>• features</li> <li>• volatility</li> <li>• category</li> </ul>	No	String	id,name,description,languages,currencies



	<ul style="list-style-type: none"> <li>supportedDevices</li> <li>clientTypes</li> <li>images</li> <li>releaseDate</li> </ul>			
--	--	--	--	--

### Example Request

```
GET https://api-int.qtplatform.com/v2/games?
size=100&currencies=USD,CNY&languages=en_US&includeFields=id,name,currencies,clientTypes
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Time-Zone: UTC
Accept-Language: en-US
Accept: application/json
```

## 8.1.2 Response 响应

### HTTP Status Code

200 OK

### Response Parameters

Name	Description	Type	Sample
totalCount	The grand total number of games in the result. 游戏结果的总计数。	String	115
items	The items array contains the game objects. 该项目数组包含了游戏中的对象。	Array	-
id	The game id, to be used when retrieving the launch url. 的游戏 ID , 检索启动 URL 时使用。	String	TK-froggrog
name	The game title, the <i>friendly</i> name. 游戏名称 , 友好的名称	String	Frog Grog
provider	The game provider. 游戏提供商	JSON	{ "id": "FNG", "name": "Fantasma Games" }
description	The game description. 游戏描述。	String	Wanted Dead or alive: Mr. Joe Boneson, \$50,000. Thus read the sign...
languages	The supported languages, as a combination of the 2-letter language code (ISO 639-1) and the 2-letter country code (ISO 3166-1 alpha-2). 所支持的语言, 为 2 个字母的语言代码 (ISO639-1) 的组合和 2 个字母的国家代码 (ISO 3166-1a-2)。	Array	[ {"id": "en_US", "name": "English"}, {"id": "zh_CN", "name": "Chinese"} ]
currencies	The supported currencies, as a code according to ISO 4217 or virtual currencies. 支持的货币, 如根据 ISO 4217 或 虚拟货币 的代码。	Array	[ {"id": "HKD", "name": "Hong Kong Dollar"}, {"id": "USD", "name": "United States Dollar"} ]
themes	The themes of the game. 游戏的主题。	Array	[ {"id": "MYTHS", "name": "Myths"}, {"id": "MAGIC", "name": "Magic"} ]
features	The set of features included in the game. 游戏中包含的特色。	Array	[ {"id": "FREE_SPINS", "name": "Free Spins"}, {"id": "BONUS_BUY", "name": "Bonus Buy"} ]
volatility	The volatility of the game. 游戏的浮动率。	JSON	{ "id": "H", "name": "High" }
category	The game category presented as a path (channel/type/model). For	String	CASINO/SLOT/

	example CASINO/SLOT/5REEL. 作为一个路径类游戏(channel/type/model). 例如 CASINO/SLOT/5REEL.		5REEL
supportedDevices	The supported devices, such as <b>DESKTOP</b> and <b>MOBILE</b> . 所支持的设备如 DESKTOP 或 MOBILE。	Array	DESKTOP, MOBILE
clientTypes	The supported game platforms, such as <b>FLASH</b> and <b>HTML5</b> 支持的游戏平台, 比如 Flash 和 HTML5	Array	HTML5
demoSupport	Determines whether this game supports demo mode or not. 确定这个游戏是否支持演示模式与否。	Boolean	true
freeRoundSupport	Determines whether this game supports free rounds or not. 确定此游戏是否支持免费游戏功能。	Boolean	true
images	Links to assets such as logo-round, logo-square and banner. 指向圆形 logo、方形 logo 和横幅等素材的链接。 To customize image appearance, please refer to Section 8.1.4. 要自定义图像外观, 请参阅第 8.1.4 节。	Array	[{"type": "logo-round", "url": "https://client-int.qtlauncher.com/images/?id=MAV-1streetracer_en_US&type=logo-round&version=1"}]
releaseDate	The game release date. 游戏的发布日期。	String	2019-05-07T00:00:00.000+08:00[Asia/Shanghai]
links	If the number of items in the result exceeds the given or default size, the search-result will be paginated. The first element in the links array will be the link to the next page and so on. When the search-result has reached the last page, the links element will not be displayed anymore. 如果结果中的数量超过给定的或默认大小, 搜索结果将分页。中的第一个元素将是下一页的链接, 依此类推。当搜索结果已经达到了最后一页, 链接元素将不再显示。	Array	-
links.href	The relative url to the next page. 该网址到下一页	String	/v2/games?cursor=1+Street+Racer
links.method	The relation name of the link. 链接的关系名	String	GET
links.rel	The relation name of the link. 链接的关系名	String	next
links.name	The friendly name of the link. 链接的友好名称	String	Next

### Example Response - Success

```
{
  "totalCount": 115,
  "items":
  [
    {
      "id": "MAV-1streetracer",
      "name": "1 Street Racer",
      "provider":
      {
        "id": "MAV",
        "name": "Maverick"
      },
      "description": "",
      "languages":
      [
        {
          "id": "en_US",
          "name": "English"
        },
        {
          "id": "zh_CN",
          "name": "Chinese"
        }
      ],
      "currencies":
      [
        {
          "id": "CNY",
          "name": "Chinese Yuan"
        },
        {
          "id": "USD",
          "name": "United States Dollar"
        }
      ],
      "themes":
      [
        {
          "id": "SPORTS",
          "name": "Sports"
        }
      ],
      "features":
      [
        {
          "id": "WAYS",
          "name": "Ways"
        },
        {
          "id": "FREE_SPINS",
          "name": "Free Spins"
        }
      ],
      "volatility":
      {
        "id": "H",
        "name": "High"
      },
    },
  ]
}
```

```
{
  "category": "CASINO/SLOT/5REEL",
  "supportedDevices": [
    {
      "id": "MOBILE",
      "name": "Mobile"
    }
  ],
  "clientTypes": [
    "HTML5"
  ],
  "demoSupport": true,
  "freeRoundSupport": false,
  "releaseDate": "2021-01-07T00:00+08:00[Asia/Shanghai]",
  "images": [
    {
      "type": "logo-round",
      "url": "https://client-int.qtlauncher.com/images/?id=MAV-1streetracer_en_US&type=logo-round&version=1"
    },
    {
      "type": "logo-square",
      "url": "https://client-int.qtlauncher.com/images/?id=MAV-1streetracer_en_US&type=logo-square&version=1"
    },
    {
      "type": "banner",
      "url": "https://client-int.qtlauncher.com/images/?id=MAV-1streetracer_en_US&type=banner&version=1"
    }
  ]
},
{
  "links": [
    {
      "href": "/v2/games?cursor=1+Street+Racer",
      "method": "GET",
      "rel": "next",
      "name": "Next"
    }
  ]
}
```

**Example response with filtered fields (includeFields=id,name,description,currencies,images )**

```
{
  "totalCount":115,
  "items":[
    {
      "id":"MAV-1streetracer",
      "name":"1 Street Racer",
      "description":"",
      "currencies":[
        {
          "id":"CNY",
          "name":"Chinese Yuan"
        },
        {
          "id":"USD",
          "name":"United States Dollar"
        }
      ],
      "images":[
        {
          "type":"logo-round",
          "url":"https://client-int.qtlauncher.com/images/?id=MAV-1streetracer_en_US&type=logo-round&version=1"
        },
        {
          "type":"logo-square",
          "url":"https://client-int.qtlauncher.com/images/?id=MAV-1streetracer_en_US&type=logo-square&version=1"
        },
        {
          "type":"banner",
          "url":"https://client-int.qtlauncher.com/images/?id=MAV-1streetracer_en_US&type=banner&version=1"
        }
      ]
    },
    {
      "..."
    }
  ]
}
```

### 8.1.3 Possible Errors

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
NOT_FOUND	404	The resource being searched does not exist. 正在搜索的资源不存在。
VALIDATION_ERROR	422	One or more fields are missing or is invalid. 一个或多个字段丢失或无效。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

#### Example Response - Error

HTTP Status: 401  
Content-Type: application/json

```
{
  "code": "INVALID_TOKEN",
  "message": "Unauthorized."
}
```

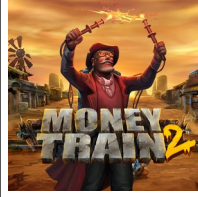


### 8.1.4 Game Images 游戏图片

Game images can be customized by the following query parameters.

可通过以下查询参数自定义游戏图片

#### Query Parameters

Name	Description	Required	Type	Sample
id	The id of the image in QT Platform. QT 平台中图片的 id。	Yes	String	<b>RLX-moneytrain2_zh_CN</b>
version	The version of the image in QT Platform. QT 平台中图片的版本。	Yes	Integer	<b>3222530471636</b>
type	Determines the image type. 确定图像类型。  Supported values are 支持的值为 <b>logo-round</b> = round/circle	Yes	String	<b>logo-round</b> 

	<p>logo-round = 圆形/圆形</p> <p><b>logo-square</b> = square</p> <p>logo-square = 正方形</p> <p><b>banner</b> = rectangular</p> <p>banner = 矩形</p> <p>The <b>logo-round</b> and <b>logo-square</b> image has an aspect ratio of 1:1 and the <b>banner</b> image has an aspect ratio of 2:1</p> <p>圆形 logo 和方形 logo 图像的宽高比为 1:1，横幅图像的宽高比为 2:1。</p>			<p><b>logo-square</b></p>  <p><b>banner</b></p> 
format	<p>Specify image format. 指定图案格式。</p> <p>Types: Banner - JPEG Icon - PNG</p> <p>类型: 横幅- JPEG 图标- PNG</p>	No	String	<p>AVIF.</p> <p>Possible values JPEG, PNG, WebP, AVIF</p>
width	<p>Resizes the image with the given width (in px). 使用给定的宽度 (以 px 为单位) 调整图像的大小。</p> <p>The image will be scaled <b>proportionally</b> according to the image type ratio. 图像将根据图像类型比例按比例缩放。</p>	No	Integer	<b>200</b>
showIcon	<p>Inserts a watermark of the game provider on the upper right corner of the banner image. 在横幅图像的右上角插入游戏提供商的水印。</p>	No	Boolean	<p><b>No value</b> or <b>false</b> - no provider icon on the banner</p>  <p><b>true</b> - will show provider icon</p>



	This parameter is only available on <b>banner</b> type images. 此参数仅适用于横幅类型图像。			
theme	Determines the color theme of the default image if there is no image found for the specific id. 如果没有找到特定 id 的图像，则确定默认图像的颜色主题。	No	String	<p><b>no value</b> (default) - will return a gray default image</p>  <p><b>dark</b> - will return a dark default image.</p> 

**Sample logo-round image URL with additional custom query parameters.** 带有附加自定义查询参数的示例 **logo** 圆形图像 **URL**。

[https://client-int.qtlauncher.com/images/?id=RLX-moneytrain2\\_zh\\_CN&type=logo-round&version=1611571971493&width=100&theme=dark](https://client-int.qtlauncher.com/images/?id=RLX-moneytrain2_zh_CN&type=logo-round&version=1611571971493&width=100&theme=dark)



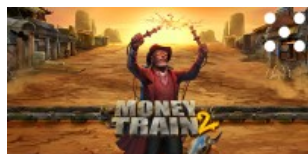
**Sample logo-square image URL with additional custom query parameters.** 带有其他自定义查询参数的示例 **logo** 方形图像 **URL**。

[https://client-int.qtlauncher.com/images/?id=RLX-moneytrain2\\_en\\_US&type=logo-square&version=1611571971493&width=100&theme=dark](https://client-int.qtlauncher.com/images/?id=RLX-moneytrain2_en_US&type=logo-square&version=1611571971493&width=100&theme=dark)



**Sample banner image URL with additional custom query parameters** 带有其他自定义查询参数的示例横幅图片 **URL**

[https://client-int.qtlauncher.com/images/?id=RLX-moneytrain2\\_en\\_US&type=banner&version=3222530471636&showIcon=true&width=200&theme=dark](https://client-int.qtlauncher.com/images/?id=RLX-moneytrain2_en_US&type=banner&version=3222530471636&showIcon=true&width=200&theme=dark)



## 8.2 Game Bet Values 游戏投注金额

Retrieves the bet values/levels per currency for a given game.  
检索给定的游戏中每种货币的投注金额 / 投注等级。

### 8.2.1 Request 请求

#### Request URL

https://{url-to-qtplatform}/v1/games/{gameId}/bet-values

#### HTTP Method

GET

#### Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token. 有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

#### Path Parameters

Name	Description	Required	Type	Sample
gameId	QT Platform game id. QT 平台游戏 ID.	Yes	String	TK-froggrog

#### Example Request

```
GET https://api-int.qtplatform.com/v1/games/TK-froggrog/bet-values
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Accept: application/json
```

### 8.2.2 Response 响应

#### HTTP Status Code

200 OK

#### Response Parameters

Name	Description	Type	Sample
totalCount	The total number of items, ie bet values per currency, in the result. 在返回结果中的项目 ( 即每种货币的投注金额 ) 总数。	String	30
items	An array of the bet values per currency objects. 每种货币对应的投注金额的数组。	Array	-
currency	The 3-letter currency code. 3 个字母的货币代码	String	TK-froggrog
values	An array of bet values, expressed as decimal, for the given currency. 给定货币的一系列投注金额，以十进制表示。	Array	"1.00","2.00"

**Example Response - Success**

```
{
  "totalCount": 30,
  "items": [
    {
      "currency": "JPY",
      "values": [
        "10.00",
        "15.00",
        "30.00",
        "75.00",
        "150.00",
        "225.00",
        "300.00",
        "450.00",
        "750.00",
        "1125.00",
        "1500.00",
        "3000.00",
        "7500.00",
        "11250.00",
        "15000.00"
      ]
    },
    {
      "currency": "PLN",
      "values": [
        "0.50",
        "1.00",
        "2.50",
        "5.00",
        "7.50",
        "10.00",
        "15.00",
        "25.00",
        "35.00",
        "50.00",
        "100.00",
        "250.00",
        "375.00",
        "500.00"
      ]
    },
    {
      ...
    }
  ]
}
```

### 8.2.3 Possible Errors

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
GAME_NOT_FOUND	404	If the game with the given id was not found. 如果未找到给定 id 的游戏。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

#### Example Response - Error

```

HTTP Status: 404
Content-Type: application/json

{
  "code": "GAME_NOT_FOUND",
  "message": "Game is not available."
}
```

## 8.3 Most Popular Games 热门游戏

This endpoint gives the caller the possibility to retrieve the 50 most popular games, globally. The result is sorted by the most popular games first.

通过此端点能让用户检索到全球排名前 50 的热门游戏，检索结果根据游戏热度排列。

### 8.3.1 Request 请求

#### Request URL

https://{url-to-qtplatform}/v1/games/most-popular?currencies={currencies}&size={size}&page={page}

#### HTTP Method

GET

#### Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token. 有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

#### Query Parameters

Name	Description	Required	Type	Sample
currencies	Gives the possibility to return the list of games that are supported by a certain currency. Can be set as a single currency or as a comma separated currency code list. If not provided, all games regardless of currency will be returned. 能够返回指定货币的游戏列表。可以设置为某一货币或者以逗号分隔多个货币代码，如果没有提供货币代码，所有游戏不论哪种货币将会被返回。	No	String	CNY,KRW
size	The desired number of records per page. Must not exceed 50. If not provided, 10 records/page will be used as default. 每页记录所需的号码，如果没有提供，10 条/页将被用作默认不得超过 50。	No	Number	20
page	The page number. If not provided, it will return the first page (page=0). 页码。如果没有提供，它会返回第一页 (page=0)。	No	Number	3

#### Example Request

```
GET https://api-int.qtplatform.com/v1/most-popular?currencies=CNY,JPY&size=20&page=0
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Accept: application/json
```

### 8.3.2 Response 响应

#### HTTP Status Code

200 OK

#### Response Parameters

Name	Description	Type	Sample
totalCount	The grand total number of games in the result. 游戏结果的总计数。	String	50
items	The items array contains the games. 该项目数组包含了游戏中的对象。	Array	-
id	The unique game id. 唯一的游戏 ID。	String	TK-froggrog

links	<p>If the number of items in the result exceeds the given or default size, the search-result will be paginated. The first element in the links array will be the link to the next page and so on.</p> <p>When the search-result has reached the last page, the links element will not be displayed anymore.</p> <p>如果结果中的数量超过给定的或默认大小，搜索结果将分页。链接排列中的第一个元素将是下一页的链接，依此类推。</p> <p>当搜索结果已经达到了最后一页，链接元素将不再显示。</p>	Array	-
href	The relative url to the next page 该网址到下一页	String	/api/v1/most-popular?size=20&page=1&currencies=CN Y,JPY
rel	The relation name of the link 链接的关系名	String	next
name	The friendly name of the link 链接的友好名称	String	Next
method	The http method to use for the link.HTTP 方法使用的链接。	String	GET

### Example Response - Success

```
HTTP Status: 200
Content-Type: application/json

{
  "totalCount":50,
  "items": [
    {
      "id": "QS-dragonshrine"
    },
    {
      "id": "TK-froggrog"
    },
    {
      ...
    }
  ],
  "links": [
    {
      "href": "/api/v1/most-popular?size=20&page=1&currencies=CN  
Y,JPY",
      "method": "GET",
      "rel": "next",
      "name": "Next"
    }
  ]
}
```

### 8.3.3 Possible Errors

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
VALIDATION_ERROR	422	Invalid query parameters. 无效的查询参数。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

#### Example Response - Error

```

HTTP Status: 401
Content-Type: application/json

{
  "code": "INVALID_TOKEN",
  "message": "Unauthorized."
}
```

## 8.4 Game Rounds 游戏局

The Search API gives the caller the possibility to retrieve game round details between a given date and time range. 搜索 API 可以使呼叫者检索给定日期和时间范围之间的游戏回合细节。

To be able to handle big search result, the search-result supports pagination, which will split the grand total result into smaller chunks (pages).

为了能够处理大搜索结果，搜索结果支持分页，这将拆分总计结果成小块（页）。

### 8.4.1 Request 请求

#### Request URL

https://{url-to-qtplatform}/v1/game-rounds?

playerId={playerId}&status={status}&rangeFilter={rangeFilter}&from={fromDateTime}&to={toDateTime}&size={size}

#### HTTP Method

GET

#### Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token. 有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Time-Zone	The preferred timezone of the search. If not provided, the "Asia/Shanghai" (CST) will be used as default. 搜索的首选时区。如果没有提供，将以“亚洲/上海” (CST) 作默认。	No	String	Asia/Shanghai

#### Query Parameters

Name	Description	Required	Type	Sample
playerId	The unique identifier of the player in Operator system. If not provided, the result will contain game rounds from all players. 玩家在运营商系统中的 id 是唯一的，如果没有提供，结果会包括所有玩家的游戏局。	No	String	test123
status	Filters the result by game round status. Valid statuses are <b>COMPLETED</b> , <b>PENDING</b> or <b>FAILED</b> . If not provided, the result will contain game rounds with all statuses. 通过游戏局状态过滤结果，有效的状态是 <b>COMPLETED</b> , <b>PENDING</b> 或者 <b>FAILED</b> 。如果没有提供，结果会包含游戏局的所有状态。	No	String	COMPLETED
rangeFilter	Determines whether the from and to parameters in the query should be based on the initiated or completed date. Valid values are <b>INITIATED</b> or <b>COMPLETED</b> . If not provided, the search will be based on the initiated date. 决定查询游戏局时是基于起始时间和完成时间的参数。有效值为 INITIATED 或 COMPLETED。如果没有提供，则默认为起始时间。	No	String	COMPLETED
from	The start date and time of the search, expressed as "YYYY-MM-DDThh:mm:ss" 搜索的开始日期和时间，表示为 "YYYY-MM-DDThh:mm:ss"	Yes	String	2015-10-22T20:34:56
to	The end date and time of the search, expressed as "YYYY-MM-DDThh:mm:ss" 搜索的截至日期和时间，表示为 "YYYY-MM-DDThh:mm:ss"	Yes	String	2015-10-23T00:00:00
size	The desired number of records per page. Must not exceed 1000. If not provided, 500 records/page will be used as	No	Number	100



	default. 每页记录所需的号码，如果没有提供，500 条/页将被用作默认不得超过 1000。			
--	---	--	--	--

### Example Request

```
GET https://api-int.qtplatform.com/v1/game-rounds?playerId=daniel&status=COMPLETED&from=2015-10-22T20:34:56&to=2015-10-23T00:00:00&size=100
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Accept: application/json
```

## 8.4.2 Response 响应

### HTTP Status Code

200 OK

### Response Parameters

Name	Description	Type	Sample
totalCount	The grand total number of game rounds in the result. 在游戏结果中总的游戏局数。	Number	113
items	The items array contains the game round objects. 该项目数组包含了游戏局的对象。	Array	-
id	The unique game round id 游戏交易 id	String	56498d238e1707b38e03b9af
status	The game round status, such as <b>PENDING</b> , <b>COMPLETED</b> or <b>FAILED</b> . 游戏局的状态，如 PENDING 或 COMPLETED 或 FAILED。	String	COMPLETED
totalBet	The total bet amount for this game round. 该游戏局的总投注。	String	25.00
totalPayout	The total payout amount for this game round, including any jackpot or bonus. 该游戏局的总派彩，包括所有的奖池奖金和游戏奖金。	String	0.00
totalBonusBet	The total bonus bet amount. 总奖金投注金额	String	0.00
currency	The 3-letter currency code. 3 个字母的货币代码	String	CNY
initiated	The date and time when the game round was created, expressed as "YYYY-MM-DDThh:mm:ss". 游戏局创建的日期和时间，表示为"YYYY-MM-DDThh:mm:ss"。	String	2015-10-22T20:34:59.703+08:00[Asia/Shanghai]
completed	The date and time when the game round was completed, expressed as "YYYY-MM-DDThh:mm:ss". 游戏局完成的日期和时间，表示为"YYYY-MM-DDThh:mm:ss"。	String	2015-10-22T20:35:00.536+08:00[Asia/Shanghai]
playerId	The unique identifier of the player in Operator system. 运营商系统中玩家账号是唯一的。	String	daniel
operatorId	The unique identifier of the operator in QT Platform. 运营商在 QT 平台中的唯一标识符。	String	keyops
device	The player's device, such as <b>MOBILE</b> or <b>DESKTOP</b> 该玩家的设备，例如 <b>MOBILE</b> or <b>DESKTOP</b>	String	MOBILE
gameProvider	The identifier of the game provider. 游戏提供者的标识符。	String	TK
gameProviderRoundId	The unique round id from the game provider. 来自提供商的独有的游戏局 ID。	String	123456

gameId	The identifier of the game. 游戏的标示符。	String	TK-froggrog
gameCategory	The game-category presented as a path (channel/type/model), for example "CASINO/SLOT/5REEL" 游戏类作为一个路径 ( channel/type/model ) , 例如 "CASINO/SLOT/5REEL"	String	CASINO/SLOT/5REEL
gameClientType	The game client platform, such as <b>FLASH</b> or <b>HTML5</b> 游戏客户端平台, 比如 Flash 或 HTML5	String	HTML5
bonusType	The bonus type, such as <b>FREE_ROUND</b> or <b>FEATURE_TRIGGER</b> . 奖金类型, 如 <b>FREE_ROUND</b> 或 <b>FEATURE_TRIGGER</b>	String	FREE_ROUND
totalJpContribution	The total jackpot contribution amount for this game round. This is only valid for progressive jackpot games. 该游戏局的奖池贡献, 仅适用于有奖池的游戏。	String	0.02
totalJpPayout	The total jackpot win amount for this game round. This is only valid for progressive jackpot games. 该游戏局的总奖池派彩金额, 仅适用于有奖池的游戏。	String	0.00
conversionRate	The conversion rate used for this round. This is only valid for virtual currency game session. 该游戏局的总奖池派彩金额, 仅适用于有奖池的游戏。	Object	-
conversionRate.pair	The pair of currencies for the conversion of game currency to wallet currency. 游戏币兑换钱包币的货币对	String	BTC/USD
conversionRate.rate	The rate used between the game currency and wallet currency. The maximum number of decimal places is 8. 游戏币和钱包币之间使用的汇率。最大小数位数为 8。	Decimal	34691.59484955
links	If the number of items in the result exceeds the given or default size, the search-result will be paginated. The first element in the links array will be the link to the next page and so on.  When the search-result has reached the last page, the links element will not be displayed anymore.  如果结果中的数量超过给定的或默认大小, 搜索结果将分页。链接排列中的第一个元素将是下一页的链接, 依此类推。 当搜索结果已经达到了最后一页, 链接元素将不再显示。	Array	-
href	The relative url to the next page 该网址到下一页	String	/api/v1/game-rounds?size=100&from=2016-01-01T00%3A00&to=2016-01-25T00%3A00&playerId=daniel
rel	The relation name of the link 链接的关系名	String	next
name	The friendly name of the link 链接的友好名称	String	Next
method	The http method to use for the link.HTTP 方法使用的链接。	String	GET

**Example Response - Success**

```
HTTP Status: 200
Content-Type: application/json
{
  "totalCount": 1437,
  "items": [
    {
      "id": "568a420c46e0fb00015c0329",
      "status": "COMPLETED",
      "totalBet": "9.00",
      "totalPayout": "4347.77",
      "totalonusBet": "0.00",
      "currency": "CNY",
      "conversionRate": {
        "pair": "BTC/CNY",
        "rate": 34691.59484955
      },
      "initiated": "2016-01-04T17:57:32.929+08:00[Asia/Shanghai]",
      "completed": "2016-01-04T17:57:33.790+08:00[Asia/Shanghai]",
      "operatorId": "keyops",
      "playerId": "daniel",
      "device": "desktop",
      "gameProvider": "TK",
      "gameProviderRoundId": "123456",
      "gameId": "TK-froggrog",
      "gameCategory": "CASINO/SLOT/5REEL",
      "gameClientType": "HTML5",
      "gameProviderRoundId": "970101",
      "totalJpContribution": "0.93386",
      "totalJpPayout": "4347.77"
    },
    {
      ...
    }
  ],
  "links": [
    {
      "href": "/api/v1/game-rounds?size=100&from=2016-01-01T00%3A00%3A00&to=2016-01-25T00%3A00%3A00&cursor=1571289647423%2C5da7fa2ffeaff60001a0c5a6&playerId=daniel",
      "method": "GET",
      "rel": "next",
      "name": "Next"
    }
  ]
}
```

### 8.4.3 Possible Errors 可能的错误

Code	HTTP Status	Description
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效此引发错误。
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

#### Example Response - Error

```

HTTP Status: 422
Content-Type: application/json

{
  "code":"VALIDATION_ERROR",
  "message":"The request could not be processed due to validation error."
}
```

## 8.5 Game Round Details 游戏局细节

This endpoint retrieves more details of a certain game round, including the actual game result.  
该端点可以检索特定游戏局的更多细节，包括实际的游戏结果

### 8.5.1 Request 请求

#### Request URL

https://{url-to-qtplatform}/v1/game-rounds/{roundId}

#### HTTP Method

GET

#### Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token. 有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Time-Zone	The preferred timezone of the search. If not provided, the "Asia/Shanghai" (CST) will be used as default. 搜索的首选时区。如果没有提供，将以“亚洲/上海” (CST) 作默认。	No	String	Asia/Shanghai

#### Path Parameters

Name	Description	Required	Type	Sample
roundId	The round id, as identified by the QT Platform. 游戏局 ID，由 QT 平台提供	Yes	String	568a420c46e0fb00015c0329

#### Example Request

```
GET https://api-int.qtplatform.com/v1/game-rounds/568a420c46e0fb00015c0329
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Accept: application/json
```

## 8.5.2 Response 响应

### HTTP Status Code

200 OK

### Response Parameters

Name	Description	Type	Sample
id	The game round id 游戏交易 id	String	56498d238e1707b38e03b9af
status	The game round status, such as <b>PENDING</b> , <b>COMPLETED</b> or <b>FAILED</b> . 游戏局状态，如 <b>PENDING</b> , <b>COMPLETED</b> 或者 <b>FAILED</b>	String	COMPLETED
totalBet	The total bet amount for this game round. 该游戏局的总投注额	String	25.00
totalPayout	The total payout amount for this game round, including any jackpot or bonus. 该游戏局的总派彩，包括所有的奖池奖金和游戏奖金。	String	0.00
totalBonusBet	The total bonus bet amount. 总奖金投注金额	String	0.00
currency	The 3-letter currency code. 3 个字母的货币代码	String	CNY
initiated	The date and time when the game round was created, expressed as "YYYY-MM-DDThh:mm:ss". 本游戏局的创建日期和时间，表示为 "YYYY-MM-DDThh:mm:ss"	String	2015-10-22T20:34:59.703+08:00[Asia/Shanghai]
completed	The date and time when the game round was completed, expressed as "YYYY-MM-DDThh:mm:ss". 本游戏局的完成日期和时间，表示为 "YYYY-MM-DDThh:mm:ss"	String	2015-10-22T20:35:00.536+08:00[Asia/Shanghai]
playerId	The unique identifier of the player in Operator system. 运营商系统中玩家账号是唯一的。	String	daniel
operatorId	The unique identifier of the operator in QT Platform. 运营商在 QT 平台中的唯一标识符	String	keyops
device	The player's device, such as <b>MOBILE</b> or <b>DESKTOP</b> 该玩家的设备，例如 <b>MOBILE</b> or <b>DESKTOP</b>	String	MOBILE
gameProvider	The identifier of the game provider. 游戏提供者的标识符。	String	TK
bonusType	The bonus type, such as <b>FREE_ROUND</b> or <b>FEATURE_TRIGGER</b> . 奖金类型，如 <b>FREE_ROUND</b> 或 <b>FEATURE_TRIGGER</b>	String	FREE_ROUND
gameId	The identifier of the game. 游戏的标识符。	String	TK-froggrog
gameCategory	The game-category presented as a path (channel/type/model), for example "CASINO/SLOT/5REEL" 游戏类作为一个路径 ( channel/type/model )，例如 "CASINO/SLOT/5REEL"	String	CASINO/SLOT/5REEL
gameClientType	The game client platform, such as <b>FLASH</b> or <b>HTML5</b> 游戏客户端平台，比如 Flash 或 HTML5	String	HTML5
gameClientRoundId	The round id given in the bet history within the game client. 在游戏客户端的投注历史中给出的圆形 ID。	String	3465351
gameResultUrl	The url to the result page, as displayed in the game client. 结果页面的绝对网址，如游戏客户端所显示的。	String	https://...
gameResult	The url to the result page in <b>JSON</b> format, as displayed in the game client. 游戏结果，在游戏中以 JSON 格式显示的页面的链接。	String	https://...
totalJpContribution	The total jackpot contribution amount for this game round. This is only valid for progressive jackpot games.	String	0.02

	该游戏局的奖池贡献，仅适用于有奖池的游戏。		
totalJpPayout	The total jackpot win amount for this game round. This is only valid for progressive jackpot games. 该游戏局的总奖池派彩金额，仅适用于有奖池的游戏。	String	0.00
gameTransactions	The wallet transactions within the game. The transaction type can be BET (withdrawal), PAYOUT (deposit) or ROLLBACK (deposit). The field jpPayout refers to the jackpot win amount in payout transactions while jpContribution refers to jackpot contribution amount in bet transactions. This is only valid for progressive jackpot games. The field betId refers to the withdrawal transaction id generated by QT Platform and will only be included when type is PAYOUT. 游戏中的钱包交易。交易类型可以是 BET (提款)，PAYO (存款) 或 ROLLBACK (存款)。字段 jpPayout 指派彩交易中的奖池中奖金额，而 jpContribution 指投注交易中的奖池贡献金额。仅适用于有奖池的游戏。QT Platform 生成的相关投注 (提款) 交易 ID。此项只会包含在 PAYOUT 方式中。	Array	
conversionRate	The conversion rate used for this round. This is only valid for virtual currency game session. 本游戏局使用的汇率。这仅对虚拟货币游戏会话有效。	Object	-
conversionRate.pair	The pair of currencies for the conversion of game currency to wallet currency. 游戏币兑换钱包币的货币对	String	BTC/USD
conversionRate.rate	The rate used between the game currency and wallet currency. The maximum number of decimal places is 8. 游戏币和钱包币之间使用的汇率。最大小数位数为 8。	Decimal	34691.59484955

**Example Response - Success**

HTTP Status: 200

Content-Type: application/json

```
{
  "id": "568a420c46e0fb00015c0329",
  "status": "COMPLETED",
  "totalBet": "8.00",
  "totalPayout": "16.00",
  "totalBonusBet": "0.00",
  "currency": "CNY",
  "conversionRate": {
    "pair": "BTC/USD",
    "rate": 34691.59484955
  },
  "initiated": "2017-04-03T15:47:48.462+08:00[Asia/Shanghai]",
  "completed": "2017-04-03T15:47:55.270+08:00[Asia/Shanghai]",
  "operatorId": "keyops",
  "playerId": "daniel",
  "device": "desktop",
  "gameProvider": "TK",
  "gameId": "TK-froggrog",
  "gameCategory": "CASINO/SLOT/5REEL",
  "gameClientType": "HTML5",
  "gameClientRoundId": "3465351",
  "gameResultUrl": "https://...",
  "totalJpContribution": "0.02",
  "totalJpPayout": "0.00",
  "gameTransactions": [
    {
      "type": "BET",
      "created": "2017-04-03T15:47:48.462+08:00[Asia/Shanghai]",
      "amount": "8.00",
      "id": "58e1fe246bf1180001766439",
      "status": "COMPLETED"
    },
    {
      "type": "PAYOUT",
      "created": "2017-04-03T15:47:55.270+08:00[Asia/Shanghai]",
      "amount": "16.00",
      "id": "58e1fe2b8542ff0001922ae2",
      "betId": "58e1fe246bf1180001766439",
      "status": "COMPLETED"
    }
  ]
}
```



### 8.5.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
NOT_FOUND	404	The round with given id could not be found. 没有找到给定 ID 的游戏局
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

#### Example Response - Error

```

HTTP Status: 404
Content-Type: application/json

{
  "code": "NOT_FOUND",
  "message": "The round with given id could not be found."
}
```

## 8.6 Game Transactions 游戏交易

The Search API gives the caller the possibility to find game transactions from a certain player between a specified date and time range. It's possible to perform a search on a specific player, but also to perform a search on all players.

搜索 API 为呼叫者提供找到某个玩家在指定的日期和时间范围内的游戏交易。

它们既可以执行对一个特定玩家的搜索，也可以执行对所有玩家的搜索。

To be able to handle big search result, the search-result supports pagination, which will split the grand total result into smaller chunks (pages).

为了能够处理大搜索结果，搜索结果支持分页，这将拆分总计结果成小块（页）。

### 8.6.1 Request 请求

#### Request URL

https://{url-to-qtplatform}/v1/game-transactions?  
playerId={playerId}&from={fromDateTime}&to={toDateTime}&size={size}

#### HTTP Method

GET

#### Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token. 有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Time-Zone	The preferred timezone of the search. If not provided, the "Asia/Shanghai" (CST) will be used as default. 搜索的首选时区。如果没有提供，将以“亚洲/上海”（CST）作默认。	No	String	Asia/Shanghai

#### Query Parameters

Name	Description	Required	Type	Sample
playerId	The unique identifier of the player in Operator system. If not provided, the result will contain game transactions from all players. 玩家在运营商系统的唯一标识符。如果没有提供，查询结果将包含来自所有玩家的游戏交易。	No	String	test123
from	The start date and time of the search, expressed as "YYYY-MM-DDThh:mm:ss" 搜索的开始日期和时间，表示为"YYYY-MM-DDThh:mm:ss"	Yes	String	2015-10-22T20:34:56
to	The end date and time of the search, expressed as "YYYY-MM-DDThh:mm:ss" 搜索的截至日期和时间，表示为"YYYY-MM-DDThh:mm:ss"	Yes	String	2015-10-23T00:00:00
size	The desired number of records per page. Must not exceed 1000. If not provided, 500 records/page will be used as default. 每页记录所需的号码，如果没有提供，500 条/页将被用作默认不得超过 1000。	No	Number	100

#### Example Request

```
GET https://api-int.qtplatform.com/v1/transactions?playerId=1234&from=2015-10-22T20:34:56&to=2015-10-23T00:00:00&size=100
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Accept: application/json
```

## 8.6.2 Response 响应

### HTTP Status Code

200 OK

### Response Parameters

Name	Description	Type	Sample
totalCount	The grand total number of game transactions in the result. 游戏交易结果的总计数。	Number	113
items	The items array contains the game transaction objects. 该项目数组包含游戏中的交易对象。	Array	-
id	The game transaction id 游戏交易 id	String	56498d238e1707b38e03b9af
type	The game transaction type, such as <b>BET</b> , <b>PAYOUT</b> , <b>ROLLBACK</b> 游戏交易类型，例如 <b>BET</b> , <b>PAYOUT</b> , <b>ROLLBACK</b>	String	BET
amount	The transaction amount. If <b>PAYOUT</b> type, The total payout amount for this game round, including any jackpot or bonus. 交易量	String	25.00
balance	The balance after the transaction was performed. 进行该交易后的余额。	String	4678.00
currency	The 3-letter currency code. 3 个字母的货币代码	String	CNY
created	The created date and time of the transaction, expressed as "YYYY-MM-DDThh:mm:ss". 本次交易的创建日期和时间，表示为 "YYYY-MM-DDThh : mm : ss"。	String	2015-10-22T20:34:59.703+08:00[Asia/Shanghai]
playerId	The unique identifier of the player in Operator system. 运营商系统中玩家账号是唯一的。	String	1234
playerDevice	The player's device, such as <b>MOBILE</b> or <b>DESKTOP</b> 该玩家的设备，例如 <b>MOBILE</b> or <b>DESKTOP</b>	String	MOBILE
playerGameRoundId	The identifier of the player game round (or hand) 玩家的游戏局 (或手) 的标识符	String	5649921c8e1707b399665538
gameProvider	The identifier of the game provider. 游戏提供者的标识符。	String	TK
gameId	The identifier of the game. 游戏的标示符。	String	TK-froggrog
gameCategory	The game-category presented as a path (channel/type/model), for example "CASINO/SLOT/5REEL" 游戏类作为一个路径 ( channel/type/model )，例如 "CASINO/SLOT/5REEL"	String	CASINO/SLOT/5REEL
gameClientType	The game client platform, such as <b>FLASH</b> or <b>HTML5</b> 游戏客户端平台，比如 Flash 或 HTML5	String	HTML5
jpContribution	The jackpot contribution amount in bet transactions. This is only valid for progressive jackpot games. 该投注交易中的奖池贡献金额，仅适用于有奖池的游戏	String	0.0025
jpPayout	The jackpot win amount in payout transactions. This is only valid for progressive jackpot games 派彩交易中的奖池奖金金额，仅适用于有奖池的游戏。	String	25.00
conversionRate	The conversion rate used for this round. This is only valid for virtual currency game session. 本游戏局使用的汇率。这仅对虚拟货币游戏会话有效。	Object	-
conversionRate.pair	The pair of currencies for the conversion of game currency to wallet currency. 游戏币兑换钱包币的货币对	String	BTC/USD
conversionRate.rate	The rate used between the game currency and wallet	Decimal	34691.59484955

	currency. The maximum number of decimal places is 8. 游戏币和钱包币之间使用的汇率。最大小数位数为 8。		
betId	The related bet (withdrawal) transaction id generated by QT Platform. This will only be included when type is PAYOUT. QT Platform 生成的相关投注 ( 提款 ) 交易 ID。此项只会包含在 PAYOUT 方式中。	String	568cc95f57f5d33b96f379ab
links	If the number of transactions in the result exceeds the given or default size, the search-result will be paginated. The first element in the links array will be the link to the next page and so on.  When the search-result has reached the last page, the links element will not be displayed anymore. 如果结果中的数量超过给定的或默认大小，搜索结果将分页。链接排列中的第一个元素将是下一页的链接，依此类推。 当搜索结果已经达到了最后一页，链接元素将不再显示。	Array	-
href	The relative url to the next page 该网址到下一页	String	/api/v1/game-transactions?playerId=1234&from=2015-10-22T20:34:56&to=2015-10-23T00:00:00&size=100
rel	The relation name of the link 链接的关系名	String	next
name	The friendly name of the link 链接的友好名称	String	Next
method	The http method to use for the link.HTTP 方法使用的链接。	String	GET

**Example Response - Success**

HTTP Status: 200

Content-Type: application/json

```
{
  "totalCount": 113,
  "items": [
    {
      "id": "56498d238e1707b38e03b9af",
      "type": "BET",
      "amount": 25.00,
      "balance": 4678.00,
      "currency": "CNY",
      "conversionRate": {
        "pair": "BTC/USD",
        "rate": 34691.59484955
      },
      "created": "2015-10-22T20:34:58.303+08:00[Asia/Shanghai]",
      "playerId": "1234",
      "playerDevice": "MOBILE",
      "playerGameRoundId": "5649921c8e1707b399665538",
      "gameProvider": "TK",
      "gameId": "TK-froggrog",
      "gameCategory": "CASINO/SLOT/5REEL",
      "gameClientType": "HTML5",
      "totalJpContribution": "0.02",
      "totalJpPayout": "0.00",
    },
    {
      "id": "564993098e1707b39b79ed2a",
      "type": "PAYOUT",
      "amount": 10.00,
      "balance": 4688.00,
      "currency": "CNY",
      "created": "2015-10-22T20:34:59.703+08:00[Asia/Shanghai]",
      "playerId": "1234",
      "playerDevice": "MOBILE",
      "playerGameRoundId": "5649921c8e1707b399665538",
      "gameProvider": "TK",
      "gameId": "TK-froggrog",
      "gameCategory": "CASINO/SLOT/5REEL",
      "gameClientType": "HTML5"
    },
    ...
  ]
}
"links": [
  {
    "href": "/api/v1/game-transactions?playerId=1234&from=2015-10-22T20:34:56&to=2015-10-23T00:00:00&cursor=1571289647423%2C5da7fa2ffeaff60001a0c5a6&size=100",
    "rel": "next",
    "name": "Next",
    "method": "GET"
  }
]
```

### 8.6.3 Possible Errors 可能的错误

Code	HTTP Status	Description
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效此引发错误。
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

#### Example Response - Error

```

HTTP Status: 422
Content-Type: application/json

{
  "code":"VALIDATION_ERROR",
  "message":"The request could not be processed due to validation error."
}
```

## 8.7 NGR per player 每个玩家的NGR

The NGR report API gives the client the possibility to retrieve NGR reports per player within a given date and time range. The result can include all players, a summary (grand total) of all the players or both within the given date and time interval. The players are initially sorted upon the highest total bet.

API 中的 NGR 报表可以检索每位玩家在一个特定的日期和时间范围内信息数据。检索结果包括所有玩家信息及汇总数据，或是在给定日期和时间范围内的玩家信息及汇总。检索结果按照玩家最高总投注额顺序排序。

### 8.7.1 Request 请求

#### Request URL

https://{url-to-qtplatform}/v1/ngr-player?from={fromDateTime}&to={toDateTime}&embed={embed}

#### HTTP Method

GET

#### Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Time-Zone	The preferred timezone of the search. If not provided, the "Asia/Shanghai" (CST) will be used as default. 搜索的首选时区。如果没有提供，将以“亚洲/上海”(CST)作默认。	No	String	Asia/Shanghai

#### Query Parameters

Name	Description	Required	Type	Sample
from	The start date and time of the search, expressed as "YYYY-MM-DDThh:mm:ss" 搜索的开始日期和时间，表示为"YYYY-MM-DDThh:mm:ss"	Yes	String	2015-10-22T00:00:00
to	The end date and time of the search, expressed as "YYYY-MM-DDThh:mm:ss" 搜索的截至日期和时间，表示为"YYYY-MM-DDThh:mm:ss"	No	String	2015-10-23T00:00:00
embed	<p>Determines what information should be included in the result. Valid values is <b>items</b> and/or <b>summary</b>. The default value is <b>items</b>.</p> <p>If the value is <b>items</b>, the result will contain all players. If the value is <b>summary</b>, the result will contain just the summary. If the value is <b>items,summary</b>, the result will contain both players and summary.</p> <p>确定什么样的信息应包含在结果中。有效值是项目和/或摘要。默认值是项目。</p> <p>如果该值是一个项目，结果将包含所有玩家。 如果该值是摘要，结果将只包含的摘要。 如果该值是一个项目，摘要，结果将包含玩家和摘要。</p>	No	String	items,summary

**Example Request**

```
GET https://api-int.qtplatform.com/v1/ngr-player?from=2015-10-22T00:00:00&to=2015-10-23T00:00:00&embed=items,summary
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Accept: application/json
```



## 8.7.2 Response 响应

### HTTP Status Code

200 OK

### Response Parameters

Name	Description	Type	Sample
totalCount	The grand total number of items (players) in the result. 在结果中的项目 ( 玩家 ) 总计数。	Number	12
requestedFor	The operator of the requested report. 所要求的报告的运营商。	String	QT
requestedBy	The username of the caller, who requested the report. 发起呼叫的 用户名, 来请求这个报告。	String	jenny
from	The start date and time of the report. 报告开始的日期和时间。	String	2015-08-02T16:00:00
to	The end date and time of the report. 报告结束的日期和时间。	String	2015-11-02T16:00:00
summary	The summary contains information about the grand total numbers of all items (players) in the result. 摘要包含总计数的所有项目 ( 玩家 ) 的结果信息	Object	-
totalGames	The grand total unique played games 总计唯一玩的游戏	Number	23
totalRounds	The grand total played rounds 总计玩的局数	Number	354
totalBet	The grand total bet amount 总计投注金额	String	35985.60
totalPayout	The grand total payout 总计出款额	String	24059.60
totalNGR	The grand total NGR 总计 NGR	String	11926.00
currency	The 3 letter currency code 3 个字母的货币代码	String	CNY
items	The items array contains the player objects. 该项目数组包含了玩家的对象。	Array	-
playerId	The unique identifier of the player in Operator system. 运营商系统中玩家账号是唯一的。	String	daniel
operatorId	The unique identifier of the operator within QT platform 运营商在 QT 平台拥有唯一的 id。	String	keyops
operatorName	The friendly name of the operator. 运营商的一个友好的名字。	String	KeyOps
totalGames	The total unique played game 总共唯一玩过的游戏。	Number	5
totalRounds	The total played rounds 总共玩过的游戏局。	Number	43
totalBet	The total bet amount 总投注	String	600.00
totalPayout	The total payout amount 总出款	String	20.00
totalNGR	The total NGR amount 总 NGR 值	String	580.00
currency	The 3 letter currency code 3 个字母的货币代码	String	CNY

**Example Response - Success**

HTTP Status: 200  
Content-Type: application/json

```
{
  "totalCount":12,
  "requestedFor":"QT",
  "requestedBy":"jenny",
  "from":"2015-08-02T16:00:00",
  "to":"2015-11-02T16:00:00",
  "summary": {
    "totalGames":23,
    "totalRounds":354,
    "totalBet":"35985.60",
    "totalPayout":"24059.60",
    "totalNGR":"11926.00",
    "currency":"CNY"
  },
  "items": [ {
    "playerId": "daniel",
    "operatorId": "keyops",
    "operatorName": "KeyOps",
    "totalGames":5,
    "totalRounds":43,
    "totalBet": "600.00",
    "totalPayout": "20.00",
    "totalNGR": "580.00",
    "currency": "CNY"
  },
  {
    "playerId": "tim",
    "operatorId": "keyops",
    "operatorName": "KeyOps",
    "totalGames":1,
    "totalRounds":56,
    "totalBet": "340.00",
    "totalPayout": "1045.00",
    "totalNGR": "-705.00",
    "currency": "CNY"
  },
  {
    ...
  } ]
}
```

### 8.7.3 Possible Errors 可能的错误

Code	HTTP Status	Description
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效此引发错误。
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

#### Example Response - Error

```

HTTP Status: 422
Content-Type: application/json

{
  "code":"VALIDATION_ERROR",
  "message":"The request could not be processed due to validation error."
}
```

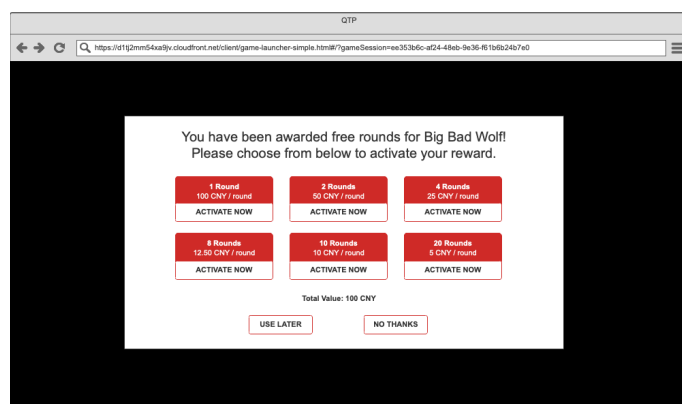
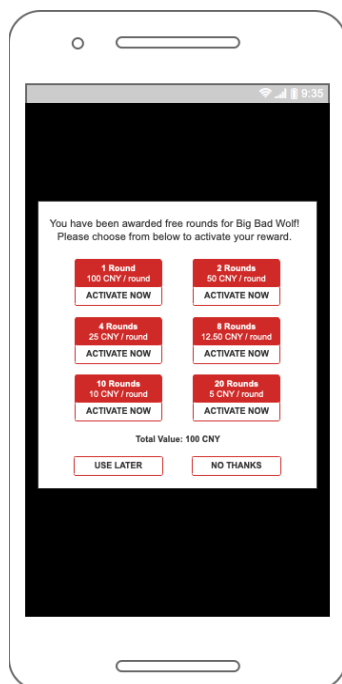
## 8.8 Create Free Round Promotion 创建免费游戏局

The Create Free Round Promotion method gives the operator the possibility to give players bonus money to be spent on a certain game, so called gift spins. It is also possible to give player the flexibility to choose the number and value of rounds from a fixed list of options, all adding up to same total value (bonus money).

If a player has been promoted with free rounds for a certain game, a dialog will be displayed upon game launch, displaying the different round options. The player has the possibility to play the free rounds directly (ACTIVATE NOW), play the free rounds another time (USE LATER) or reject the promotion (NO THANKS).

创建免费游戏局让运营商提供玩家奖金使用于某款游戏中，即赠送免费旋转。玩家可以从指定的选项中选择局数和每局的投注数值，每个选项的局数投注价值相等于总数值(奖金)。

如果玩家在特定游戏中获得免费游戏局，将在游戏启动时显示一个对话框，显示不同的局数选项。玩家可以选择直接使用免费游戏局（立即激活），稍后再使用免费游戏局（稍后再使用）或拒绝免费游戏局（拒绝）。



### 8.8.1 Request 请求

#### Request URL

`https://{url-to-qtplatform}/v1/bonus/free-rounds`

#### HTTP Method

POST

#### Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

#### Payload Parameters 载荷参数

Name	Description	Required	Type	Sample
txnId	The id of the request for idempotent purpose. This id must	Yes	String	acfe23cfe4f2

	be unique for each promotion and must never be reused. Valid characters are alphanumeric (lower or upper case), underscore "_" and dash "-". 为每个免费游戏局而请求的 ID。每个免费游戏局的 ID 都必须是唯一的,不得重复使用。			
playerId	The unique player identifier in the operator system. 在运营商系统中玩家唯一的标识符。	Yes	String	45465
gameId	The unique identifier of the game, provided by QT. 由 QT 提供的游戏唯一的标识符。	Yes	String	QS-goldlab
totalBetValue	The total value of the promotion. 免费游戏局总数值。	Yes	Decimal	100.00
roundOptions	A list of numbers of rounds offered to player. Dividing totalBetValue by any count on list must lead to a legal bet amount for the given game without remainder. Maximum of 9 round options.  If not provided, the system will autogenerate round options for the player, up to maximum of 20 rounds per option or maximum of 9 round options.  提供给玩家免费局数量的列表。totalBetValue 除以列表内的游戏局数,所得的单局游戏投注额须为一个合法的投注,即相除之后没有余数。如果游戏局数选项大于 2,玩家在启动游戏时会显示给定的免费局选项。游戏局的选项最多为 9 个。  如果没有提供,系统会为玩家自动生成游戏局选项,每个选项最多 20 局或者最多 9 个选项。	No	Array	1,2,4,8
currency	The currency of the free round promotion. This must match the player currency. 免费游戏局的货币必须与玩家货币相匹配。	Yes	String	CNY
promoCode	The optional promotion code for tracking purposes. Valid characters are alphanumeric (lower or upper case), underscore "_" and dash "-". 用于追踪免费游戏局的活动代码。	No	String	ABC
validityDays	The number of days the promotion is valid after it has been claimed by the player. Must be a value between 1 and 7. If not provided, the default is 7 days. 玩家认领免费游戏局后的有效天数。如果没有提供,默认是 7 天。	No	Number	7
rejectable	Determines whether the promotion can be rejected by the player or not. If <i>false</i> , the promotion dialog will <b>not</b> include a "No Thanks" button. If <i>true</i> , the promotion dialog will include a "No Thanks" button. If omitted, the default value is <i>true</i> . 决定免费游戏局是否可以被玩家拒绝。如果值是"false",则免费游戏局对话框将不包含"拒绝"按钮。如果值是"true",则免费游戏局对话框将会包含"拒绝"按钮。如果不设置该值,则默认为"true"。	No	Boolean	true

**Example Request** (with roundOptions)

POST https://api-int.qtplatform.com/v1/bonus/free-rounds  
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92  
Content-Type: application/json

```
{
  "txnId": "acfe23cfe4f2",
  "playerId": "45465",
  "gameId": "QS-goldlab",
  "totalBetValue": 100.00,
  "roundOptions": [ 1, 2, 4, 8 ],
  "currency": "CNY",
  "promoCode": "ABC",
  "validityDays": 7,
  "rejectable": true
}
```

**Example Request** (without roundOptions)

POST https://api-int.qtplatform.com/v1/bonus/free-rounds  
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92  
Content-Type: application/json

```
{
  "txnId": "acfe23cfe4f2",
  "playerId": "45465",
  "gameId": "QS-goldlab",
  "totalBetValue": 100.00,
  "currency": "CNY",
  "promoCode": "ABC",
  "validityDays": 7,
  "rejectable": true
}
```

## 8.8.2 Response 响应

**HTTP Status Code**

201 Created

**Response Parameters**

Name	Description	Type	Sample
txnId	The same identifier as in the request. 与请求中的标识符相同。	String	acfe23cfe4f2
bonusId	The unique identifier of the promotion. 免费游戏局的唯一标识符。	String	keyops-acfe23cfe4f2

**Example Response - Success**

HTTP Status: 201  
Content-Type: application/json  
Location: https://api-int.qtplatform.com/v1/bonus/free-rounds/keyops-acfe23cfe4f2/players/45465

```
{
  "txnId": "acfe23cfe4f2",
  "bonusId": "keyops-acfe23cfe4f2"
}
```

### 8.8.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
ACCOUNT_LOCKED	403	The user or operator is locked. 用户或运营商被锁定。
BONUS_ALREADY_EXISTS	409	A free round promotion with given txnId already exists. 给定的 txnId 的免费局活动已存在。
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效此引发错误。
BET_VALUE_NOT_FOUND	422	The combination total bet value and one of the number of rounds is not possible for the given game. 总投注数值和所选的游戏局数在指定的游戏中不匹配。
GAME_NOT_AVAILABLE	422	The game is temporarily not available. 游戏暂时不可用。
GAME_NOT_FOUND	422	The game with the given id was not found. 未找到给定 id 的游戏。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

#### Example Response - Error

```
HTTP Status: 422
Content-Type: application/json

{
  "code": "VALIDATION_ERROR",
  "message": "The request could not be processed due to validation error."
}
```

## 8.9 Get Free Round Promotion 获取免费游戏局

The Get Free Round Promotion method gives the operator the ability to retrieve the details and latest status of a free round promotion for specific player.

A Free Round Promotion can be in one of the following states:

获取免费游戏局让运营商能够检索指定玩家的免费游戏局的详细信息和最新状态。

免费游戏局可以处于以下的状态：

Status	Description
PROMOTED	The operator has assigned the free round to the player. 运营商已将免费游戏局分配给玩家。
CLAIMED	The player has activated the promotion by launching the game and selecting a specific round option. 玩家通过选择特定的局数选项接受免费游戏局。
IN_PROGRESS	The player has started to play the free rounds, ie at least one free round has been completed. 玩家已开始使用免费游戏局，并至少完成一轮免费局。
COMPLETED	The player has completed all the free rounds in the promotion. 玩家已完成免费游戏局的所有局数。
DELETED	The promotion was deleted by the operator. 运营商删除免费游戏局。
CANCELLED	The promotion was rejected by the player. 玩家拒绝免费游戏局。
FAILED	The creation of the promotion failed on the game server. 创建免费游戏局失败。
EXPIRED	The validity period of the promotion has lapsed since the time when it was claimed. 由于已经被认领，促销活动的有效期已过。

The status of a Free Round Promotion can have the following transitions:

免费游戏局的状态可以包含以下内容：

PROMOTED → CLAIMED → IN\_PROGRESS → COMPLETED

PROMOTED → CLAIMED → IN\_PROGRESS → EXPIRED

PROMOTED → CLAIMED → FAILED

PROMOTED → CLAIMED → EXPIRED

PROMOTED → DELETED

PROMOTED → CANCELLED

### 8.9.1 Request 请求

#### Request URL

https://{url-to-qtplatform}/v1/bonus/free-rounds/{bonusId}/players/{playerId}

#### HTTP Method

GET

#### Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92



Time-Zone	The preferred timezone of the request. If not provided, time zone "Asia/Shanghai" (CST) will be used as default. 搜索的首选时区。如果没有提供，将以“亚洲/上海” ( CST ) 作默认。	No	String	Asia/Shanghai
-----------	---	----	--------	---------------

## Path Parameters

Name	Description	Required	Type	Sample
bonusId	The unique identifier of the promotion. 免费游戏局的唯一标识符。	Yes	String	keyops-acfe23cfe4f2
playerId	The unique player identifier in the operator system. 在运营商系统中玩家唯一的标识符。	Yes	String	45465

## Example Request

```
GET https://api-int.qtplatform.com/v1/bonus/free-rounds/keyops-acfe23cfe4f2/players/45465
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Time-Zone: Asia/Shanghai
```

## 8.9.2 Response 响应

### HTTP Status Code

200 OK

### Response Parameters

Name	Description	Type	Sample
bonusId	The unique identifier of the promotion. 免费游戏局的唯一标识符。	String	keyops-acfe23cfe4f2
playerId	The unique player identifier in the operator system. 在运营商系统中玩家唯一的标识符。	String	45465
gameIds	The list of games in which this free round is playable. 支持免费游戏局的列表。	Array	QS-goldlab,ELK-djwild
totalBetValue	The total value of the promotion. 免费游戏局总数值。	Decimal	100.00
totalPayout	The total payout of the promotion. 免费游戏局总出款。	Decimal	50.00
roundOptions	The list of numbers of rounds offered to player. Each number in the list is equal to totalBetValue divided by legal bet amount for the given game without remainder. Maximum of 9 round options. 提供给玩家的免费游戏局数量，列表中的每个数字等于 totalBetValue 除以给定游戏的合法投注金额，且没有余额。最多选项为 9 局。	Array	1,2,4,8
currency	The currency of the free round promotion. It matches the player currency. 免费游戏局的货币与玩家货币相匹配。	String	CNY
promoCode	The optional promotion code for tracking purposes. 用于追踪免费游戏局的活动代码。	String	ABC
status	The status of the free round promotion. The other response parameters returned depend on the status of the free round promotion. The value of this parameter can either be PROMOTED, CLAIMED, IN_PROGRESS, COMPLETED, DELETED, CANCELLED or FAILED. 免费游戏局的状态。返回的响应参数取决于游戏局的状态。此参数的值可以是 PROMOTED, CLAIMED, IN_PROGRESS, COMPLETED, DELETED, CANCELLED 或 FAILED。	String	CLAIMED
validityDays	The number of days the promotion is valid after it has been claimed by the player. 玩家认领免费游戏局后的有效天数。	Number	7

promotedDateTime	The date and time when the promotion was given to the player. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 提供给玩家免费游戏局的日期和时间，格式由 ISO-8601 兼容日期时间格式组成，方括号时区与请求头参数时区一致。	String	2019-03-14T16:44:41.087+08:00[Asia/Shanghai]
claimedDateTime	The date and time when the promotion was claimed by the player. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 玩家认领免费游戏局的日期和时间。格式由 ISO-8601 兼容日期时间格式组成，方括号时区与请求头参数时区一致。	String	2019-03-14T16:52:41.087+08:00[Asia/Shanghai]
failedDateTime	The date and time when a promotion operation failed due to error. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 免费游戏局因错误导致失败的日期和时间。格式由 ISO-8601 兼容日期时间格式组成，方括号时区与请求头参数时区一致。	String	2019-03-14T17:52:41.087+08:00[Asia/Shanghai]
completedDateTime	The date and time when all free rounds in the promotion was completed by the player. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 玩家已经完成免费游戏局的日期和时间。格式由 ISO-8601 兼容日期时间格式组成，方括号时区与请求头参数时区一致。	String	2019-03-14T17:45:41.087+08:00[Asia/Shanghai]
cancelledDateTime	The date and time when the promotion was rejected by the player. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 玩家拒绝免费游戏局的日期和时间。格式由 ISO-8601 兼容日期时间格式组成，方括号时区与请求头参数时区一致。	String	2019-03-14T17:11:41.087+08:00[Asia/Shanghai]
deletedDateTime	The date and time when the promotion was deleted by the operator. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 运营商删除玩家免费游戏局的日期和时间。格式由 ISO-8601 兼容日期时间格式组成，方括号时区与请求头参数时区一致。	String	2019-03-14T17:11:41.087+08:00[Asia/Shanghai]
expiredDateTime	The date and time when the validity period of the promotion has lapsed since it was claimed by the player. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 促销活动过期失效的日期和时间，由于已经被认领此促销活动的有效期已过。格式由 ISO-8601 兼容日期时间格式组成，方括号时区与请求头参数时区一致。	String	2019-03-14T17:11:41.087+08:00[Asia/Shanghai]
claimedRoundOption	The selected round option of the player. 玩家选择游戏局数的选项。	Number	1
claimedGameId	The unique identifier of the game, provided by QT, in which the player activated (claimed) the promotion. 当玩家认领免费游戏局后，由 QT 提供的游戏唯一的标识符。	String	QS-goldlab

**Example Response – Success with status PROMOTED**

```
HTTP Status: 200
Content-Type: application/json

{
  "bonusId": "bonus-a",
  "playerId": "45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue": 100.00,
  "roundOptions": [1, 2, 4, 8],
  "currency": "CNY",
  "promoCode": "ABC",
  "status": "PROMOTED",
  "validityDays": 7,
  "promotedDateTime": "2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

**Example Response – Success with status CLAIMED**

```
HTTP Status: 200
Content-Type: application/json

{
  "bonusId": "bonus-b",
  "playerId": "45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue": 100.00,
  "roundOptions": [1, 2, 4, 8],
  "currency": "CNY",
  "promoCode": "ABC",
  "status": "CLAIMED",
  "validityDays": 7,
  "claimedRoundOption": 1,
  "claimedGameId": "QS-goldlab",
  "promotedDateTime": "2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "claimedDateTime": "2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

**Example Response – Success with status IN\_PROGRESS**

```
HTTP Status: 200
Content-Type: application/json

{
  "bonusId": "bonus-b",
  "playerId": "45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue": 100.00,
  "roundOptions": [1, 2, 4, 8],
  "currency": "CNY",
  "promoCode": "ABC",
  "status": "IN_PROGRESS",
  "validityDays": 7,
  "claimedRoundOption": 1,
  "claimedGameId": "QS-goldlab",
  "promotedDateTime": "2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "claimedDateTime": "2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

**Example Response – Success with status COMPLETED**

```
HTTP Status: 200
Content-Type: application/json

{
  "bonusId": "bonus-d",
  "playerId": "45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue": 100.00,
  "totalPayout": 50.00,
  "roundOptions": [1, 2, 4, 8],
  "currency": "CNY",
  "promoCode": "ABC",
  "status": "COMPLETED",
  "validityDays": 7,
  "claimedRoundOption": 1,
  "claimedGameId": "QS-goldlab",
  "promotedDateTime": "2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "claimedDateTime": "2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "completedDateTime": "2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

**Example Response – Success with status DELETED**

```
HTTP Status: 200
Content-Type: application/json

{
  "bonusId": "bonus-e",
  "playerId": "45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue": 100.00,
  "roundOptions": [1, 2, 4, 8],
  "currency": "CNY",
  "promoCode": "ABC",
  "status": "DELETED",
  "validityDays": 7,
  "promotedDateTime": "2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "deletedDateTime": "2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

**Example Response – Success with status CANCELLED**

```
HTTP Status: 200
Content-Type: application/json

{
  "bonusId": "bonus-e",
  "playerId": "45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue": 100.00,
  "roundOptions": [1, 2, 4, 8],
  "currency": "CNY",
  "promoCode": "ABC",
  "status": "CANCELLED",
  "validityDays": 7,
  "promotedDateTime": "2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "cancelledDateTime": "2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

**Example Response – Success with status FAILED**

```

HTTP Status: 200
Content-Type: application/json

{
  "bonusId": "bonus-c",
  "playerId": "45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue": 100.00,
  "roundOptions": [1, 2, 4, 8],
  "currency": "CNY",
  "promoCode": "ABC",
  "status": "FAILED",
  "validityDays": 7,
  "claimedRoundOption": 1,
  "claimedGameId": "QS-goldlab",
  "promotedDateTime": "2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "failedDateTime": "2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}

```

**Example Response – Success with status EXPIRED**

```

HTTP Status: 200
Content-Type: application/json

{
  "bonusId": "bonus-sample-d",
  "playerId": "45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue": 100.00,
  "roundOptions": [1, 2, 4, 8],
  "currency": "CNY",
  "promoCode": "ABC",
  "status": "EXPIRED",
  "validityDays": 7,
  "claimedRoundOption": 1,
  "claimedGameId": "QS-goldlab",
  "promotedDateTime": "2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "claimedDateTime": "2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "expiredDateTime": "2019-01-08T00:00:00+08:00[Asia/Shanghai]"
}

```

**8.9.3 Possible Errors 可能的错误**

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
NOT_FOUND	404	Promotion not found. 未找到免费游戏局。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误

**Example Response - Error**

```
HTTP Status: 404
Content-Type: application/json

{
  "code": "NOT_FOUND",
  "message": "Promotion not found."
}
```

## 8.10 Delete a Free Round Promotion 删除免费游戏局

The Delete Free Round Promotion method gives the operator the possibility to delete a free round promotion for specific player.

删除免费游戏局可以让运营商删除特定玩家的免费游戏局。

**NOTE!** It is only possible to delete promotion with status PROMOTED, ie a promotion that has not been claimed, cancelled, failed or deleted.

**注意！** 只能删除状态为 PROMOTED 的免费游戏局，即为未认领，取消，失败或删除的免费游戏局。

### 8.10.1 Request 请求

#### Request URL

https://{url-to-qtplatform}/v1/bonus/free-rounds/{bonusId}/players/{playerId}

#### HTTP Method

DELETE

#### Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

#### Path Parameters

Name	Description	Required	Type	Sample
bonusId	The unique identifier of the promotion. 免费游戏局的唯一标识符。	Yes	String	keyops- acfe23cfe4f2
playerId	The unique player identifier in the operator system. 在运营商系统中玩家唯一的标识符。	Yes	String	45465

#### Example Request

DELETE https://api-int.qtplatform.com/v1/bonus/free-rounds/keyops-acfe23cfe4f2/players/45465  
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

### 8.10.2 Response 响应

#### HTTP Status Code

204 No Content



### 8.10.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
NOT_FOUND	404	Promotion not found. 未找到免费游戏局。
STATUS_CONFLICT	409	Promotion already claimed, cancelled, failed or completed. 免费游戏局已被认领，取消，失效或完成。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误

#### Example Response - Error

```

HTTP Status: 409
Content-Type: application/json

{
  "code": "STATUS_CONFLICT",
  "message": "Promotion is already claimed."
}
```

## 8.11 Get Jackpots 获取奖池

Retrieves information from all available jackpots, including the jackpot id, games, pools and current balances per currency.

检索所有有效奖池的信息，包括奖池 id，游戏，奖金池和每种货币当前余额。

### 8.11.1 Request 请求

#### Request URL

https://{url-to-qtplatform}/v1/jackpots?currencies={currencies}&type={poolType}

#### HTTP Method

GET

#### Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token. 有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

#### Query Parameters

Name	Description	Required	Type	Sample
currencies	Filters the list of jackpot balances by the given currency or currencies. Can be set as a single currency or as a comma separated currency code list. If not provided, all available jackpot currencies will be included in the result. 按给定的一种或多种货币过滤奖池余额列表。可以设置为单一货币或逗号分隔的货币代码列表。如果未提供，则所有可用货币的奖池都将包括在结果中。	No	String	CNY,EUR
type	Returns the given pool. Valid values are GRAND, MAJOR, MINOR, MINI. If not provided, all available jackpot pools will be included in the result. 返回给定的奖池。有效值为 GRAND, MAJOR, MINOR, MINI。如果没有提供，则会在返回结果中包含所有有效的奖池。	No	String	GRAND

#### Example Request

```
GET https://api-int.qtplatform.com/v1/jackpots?currencies=CNY,EUR&type=GRAND
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
```

## 8.11.2 Response 响应

### HTTP Status Code

200 OK

### Response Parameters

Name	Description	Type	Sample
totalCount	The total number of jackpots in the result. 结果中奖池的总数	Number	2
items	The array of jackpot objects. 奖池项目的组。	Array	-
items.id	The unique identifier of the jackpot. 奖池 id。	String	jackpot1
items.games	The games of a certain jackpot. 指定游戏的奖池。	Array	BPG-jackpotforever
items.pools	The pools of a certain jackpot. 指定奖池的奖金池。	Array	-
items.pools.type	The type of the jackpot pool. Valid values are GRAND, MAJOR, MINOR, MINI. 奖池类型。有效值为 GRAND, MAJOR, MINOR, MINI.	String	GRAND
items.pools.balances	The balances of the jackpot pool per currency. 每种货币奖池的余额。	Array	-
items.pools.balances.currency	The currency of a certain jackpot pool balance. 指定奖池余额的货币。	String	CNY
items.pools.balances.amount	The amount of a certain jackpot pool balance. 指定奖池余额的金额。	Decimal	123456.78

### Example Response

```

HTTP Status: 200 OK
Content-Type: application/json
{
  "totalCount":2,
  "items": [
    {
      "id":"jackpot1",
      "games": ["BPG-jackpotforever","BPG-diamondjackpot"],
      "pools": [
        {
          "type":"GRAND",
          "balances": [
            {
              "currency": "CNY",
              "amount": 123456.78
            },
            {
              "currency": "EUR",
              "amount": 12345.67
            }
          ]
        }
      ]
    },
    ...
  ]
}
```

### 8.11.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误

#### Example Response - Error

```

HTTP Status: 401
Content-Type: application/json

{
  "code": "INVALID_TOKEN",
  "message": "The given token is expired."
}
```